

HARRY WARING MARSUPIAL RESERVE, WATTLEUP

Boundary Definition: protected area boundary

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 392

Area (ha): bushland 271.6 (Site also includes open water.)

Map no. 58, 59, 64, 65

Map sheet series ref. no. 2033-I SW

Other Names: Banganup Lake, part of Beeliar Regional Park

Local Authorities (Suburb): City of Cockburn (Wattleup)

Includes CALM Managed Land: Nature Reserve 29241 (Research and Conservation of Flora and Fauna)

System 6 (1983): Part M93 All System area bushland, total area described

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

Bassendean Dunes

Bassendean Sands (Qpb: S8)

Spearwood Dunes

Sands derived from Tamala Limestone (Qts: S7)

Wetlands (within the Spearwood Dunes)

Holocene Swamp Deposits (Qhw: Cps, Ms5)

VEGETATION AND FLORA

Vegetation Complexes

Bassendean Dunes

Bassendean Complex — Central and South (at interface of Bassendean Complex — Central and South and Karrakatta Complex — Central and South)

Spearwood Dunes

Karrakatta Complex — Central and South

Wetlands

Herdsman Complex

Floristic Community Types

Supergroup 2: Seasonal Wetlands

5 Mixed shrub damplands

11 Wet forests and woodlands

Supergroup 3: Uplands centred on Bassendean Dunes and Dandaragan Plateau

21a Central *Banksia attenuata* — *Eucalyptus marginata* woodlands

23a Central *Banksia attenuata* — *B. menziesii* woodlands

Supergroup 4: Uplands centred on Spearwood and Quindalup Dunes

28 Spearwood *Banksia attenuata* or *B. attenuata* — *Eucalyptus* woodlands

WETLANDS

Wetland Types: sumpland, dampland

Natural Wetland Groups

Bassendean Dunes

Jandakot (B.3)

Spearwood—Bassendean interface

Bibra (S/B.1)

Wetland Management Objectives: Conservation (53.8ha)

Swan Coastal Plain Lakes EPP: 34.4ha

THREATENED ECOLOGICAL COMMUNITIES

Not assessed

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: open water, vegetated wetland, vegetated uplands

Vegetation and Flora: limited survey (EPA and WAWA 1990, Gibson 1994 (Harry 01–06), Weston 1993); detailed survey (Clay 1980, Weston and Clay 1980)

Structural Units: mapping (Clay 1980, EPA and WAWA 1990)

Uplands — Bassendean and Spearwood Dunes not distinguished: *Eucalyptus marginata* Open Woodland;

Banksia attenuata and *B. menziesii* Low Open Woodland to Low Closed Forest

Wetlands: *Eucalyptus rudis*, *Melaleuca preissiana* and *Banksia littoralis* Low Woodland to Low Closed Forest;

Banksia attenuata and *B. ilicifolia* Low Woodland; *Baumea articulata* Sedgeland to Closed Sedgeland

Scattered Native Plants: *Melaleuca* Low Woodland (EPA and WAWA 1990)

Vegetation Condition: >70% Excellent to Very Good, 30% Good to Degraded (Weston 1993)

Total Flora: 282 native species (Weston 1980) (estimated >75% expected flora)

Significant Flora: *Aotus cordifolia* (3), *Dodonaea hackettiana* (4); *Boronia crenulata* (Weston and Clay 1980)

Fauna: Significant mammal species: Quenda (Friend 1996 D)

Linkage: adjacent bushland to the north (Site 391, across road), south (Site 393), east and west; part of Greenways 76, 78 (Tingay, Alan & Associates 1998a); part of a regionally significant contiguous bushland/wetland linkage (Part A, Map 7)

Other Special Attributes: included in Beeliar Regional Park Proposal (DPUD 1992a); at interface of Bassendean and Spearwood Dunes

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Entered in the Interim List of the Register of the National Estate

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, Diversity, Rarity, Scientific or evolutionary importance, General criteria for the protection of wetland, streamline and estuarine fringing vegetation and coastal vegetation, Criteria not relevant to determination of regional significance, but which may be applied when evaluating areas having similar values

Recommendation: Site with Some Existing Protection; the care, control and management of this Site (Reserve 29241) for conservation purposes within Beeliar Regional Park is endorsed (see Table 3, Volume 1).

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Boundary Definition: protected area boundary

SECTION 1: CADASTRAL INFORMATION

(Lots, locations and derived information to be updated in the public submission period)

Bushplan Site no. 392 **Map no.** 74 **Map sheet series ref. no.** 2033-I SW

System 6 (1983): Part M93 All System area bushland, total area described

Other Names

Banganup Lake

Local Authorities (Suburb)

City of Cockburn (Wattleup)

Area (ha): total 280.1 (includes open water); bushland 271.6

Zoning

MRS: Parks and Recreation, Parks and Recreation Restricted

TPS: Landscape

Lot/Location/Reserve numbers (Purpose), Street name

2130 Frankland Ave; 2017 Pearse Rd

Crown Reserve

Nature Reserve 29241 (Research and Conservation of Flora and Fauna)

Ownership Categories

State Government

CALM Managed Land

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Significant Flora: *Aotus cordifolia* (3), *Dodonaea hackettiana* (4); *Boronia crenulata* (Weston and Clay 1980)

Fauna: no systematic survey. Significant mammal species: Quenda (Friend 1996 D)

Linkage: adjacent bushland to the north (BS391 across road), south (BS393), east and west; part of proposed Greenways 93, 91 (Tingay, Alan & Associates 1997a); part of a regionally significant contiguous bushland/wetland linkage (Volume 2A, Map 8)

Other Special Attributes: included in Beeliar Regional Park Proposal (DPUD 1992a); at interface of Bassendean and Spearwood Dunes

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Interim List of the Register of the National Estate

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, Diversity, Rarity, Scientific or evolutionary importance, General criteria for the protection of wetland, streamline and estuarine fringing and coastal vegetation, Criteria not relevant to determination of conservation value, but which may be applied when evaluating areas having similar values

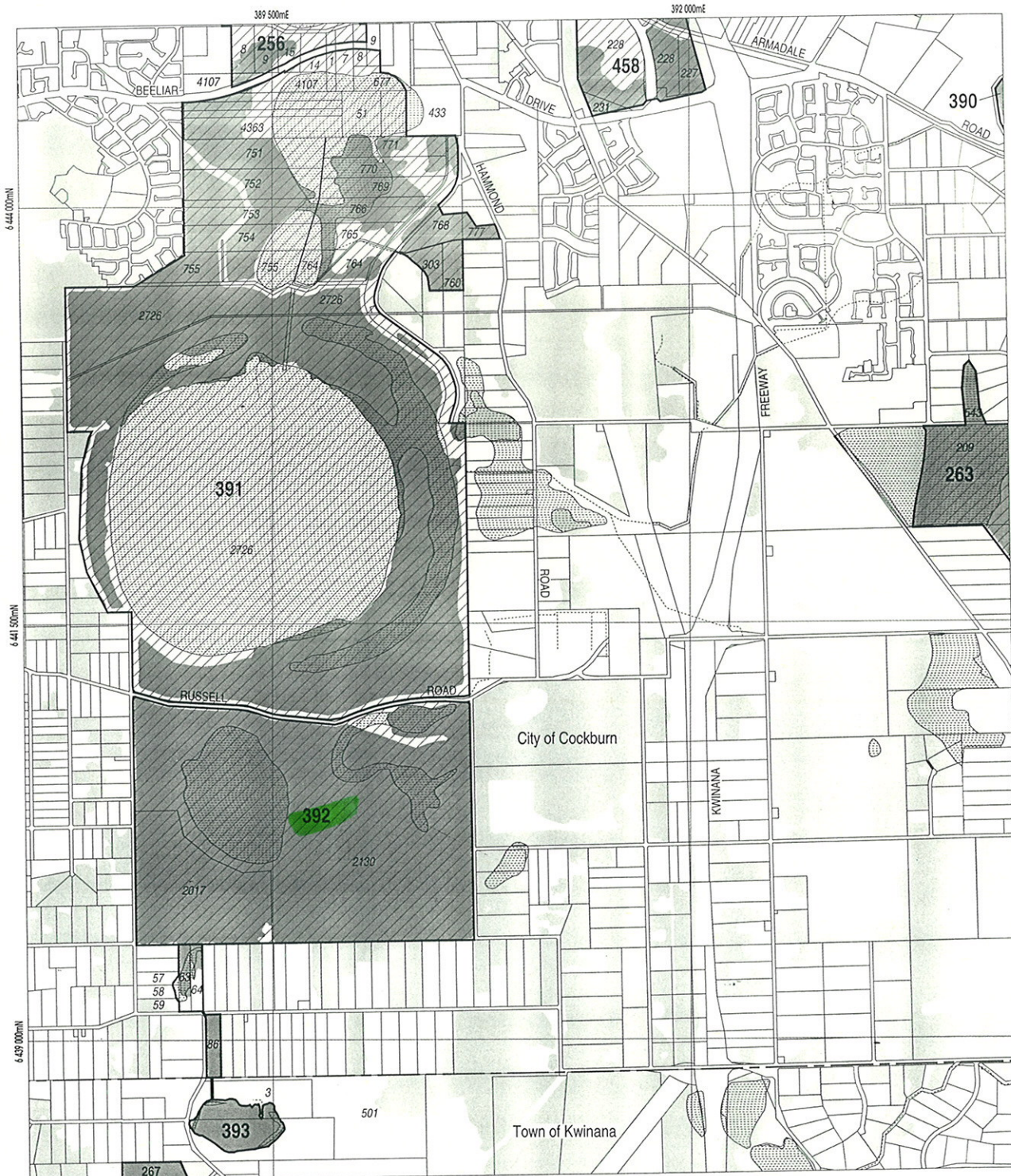
Opportunities and/or Constraints

Opportunities: Bushplan Site/part Bushplan Site subject to Swan Coastal Plain Lakes EPP; location of conservation category wetlands; under MRS Parks and Recreation Reservation and Parks and Recreation Restricted Zoning and TPS Landscape Zoning, Crown Reserve

Constraints: under General Mineral Resource Area (limestone)

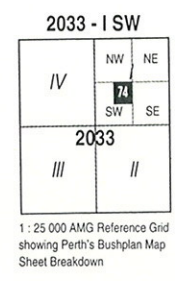
Recommendation: The care, control and management of this area (Reserve 29241) for conservation purposes within Beeliar Regional Park is endorsed.





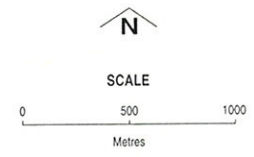
LEGEND

- 472 Bushplan Sites With Regionally Significant Bushland
- Other Native Vegetation
- Conservation Category Wetlands
- Bushplan Sites With Some Existing Protection
- 696 Lot Number, Location Number
- Channel Wetlands
- Local Government Boundary



PERTH'S BUSHPLAN MAP INDEX

1	2					
3	4	5				
6	7	8	9	10	11	
12	13	14	15	16		
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	32	33	34	35	36	
37	38	39	40	41	42	
43	44	45	46	47	48	
49	50	51	52	53	54	
55	56	57	58	59		
60	61	62	63	64		
65						
66	67	68	69	70		
71	72	73	74	75	76	77
78	79	80	81	82	83	84
85	86	87	88	89	90	91
92	93	94	95	96	97	
98	99	100	101	102		
103	104	105	106			



Produced by Project Mapping Section
 Land Information Branch, Ministry for
 Planning, Perth W.A. November 1998
ntw-map91/envirom/bushplan/bushv2_74.dgn
 Cadastral Data supplied by Department
 of Land Administration, W.A.
 Wetlands Data supplied by
 Water and Rivers Commission
 Native Vegetation Extent for Study Area
 supplied by Agriculture Western Australia

The land is zoned "urban" but it may be possible to achieve a land swap which meets with the owner's approval.

We recommend you extend site 391 to include the above bushland and Hird Road Swamp.

Map 74 & 67 - Bushplan Site

I suggest this site be extended further to the west to abut Poletti Road and include the corridor of bush below the Western Power transmission lines. This strip of bush is regenerating strongly after being cleared for the Transmission Lines many years ago. It contains Banksia Woodland, various native shrubs and woolybush. Orchid numbers are increasing together with other flora. Particularly, I note the presence of many Honeyeaters, Wrens and other birds utilising this portion.

From my examination of the Greenways Scheme it maybe that the land is earmarked for that Scheme, but I are keen to have it properly secured under Bushplan.

I recommend extension of site 458 to include the western power transmission line corridor.

Map 74 - SW & SE Quadrant:

At the bottom on Map 74 the shaded area (having the words Town of Kwinana) is bushland worthy of consideration of retention of Bushplan. Part of the land is subject to a current sand mine. ***I suggest inclusion of the area of excellent Banksia Woodland extending through to Wattleup Road.***

Map 74 - Bushplan Site

The above site includes the Harry Wearing Marsupial Reserve. Adjoining that reserve on its eastern side bounded by Russell Road on its north side is another large bushland parcel having a 'damp land', diverse flora and shrubs and Banksia woodland. I recommend **extension** of Bushplan site 392 to include this additional parcel.

Map 74 - South East Quadrant:

The bushland on the south east corner of Gibbs Road and Lyon Road, east of the Kwinana Freeway is good quality Banksia woodlands. It is on an important portion of the Jandakot Groundwater mound and its coverage under Bushplan would help the community realise its aspirations for an unspoilt water supply. The native bird population in this section is excellent.

THE UNIVERSITY OF WESTERN AUSTRALIA

DEPARTMENT OF ZOOLOGY

HARRY WARING MARSUPIAL RESERVE

FLORA - MAY 1980

Compiled by Brian T. Clay

Totals - May 1980 - 66 Families
231 Genera
376 Species

Plants collected by: P.A. Clay, B.T. Clay, A.H. Burbidge,
Z. Lockhart-Mure, Dr J. Taylor,
Dr A. Weston and Dr R.J. Whelan.

Plant determination by: Dr A. Weston of the Western
Australian Herbarium

Card index system by: Dr A. Weston

Herbarium by: B.T. Clay

File PB191

CYCADACEAE

Macrozamia riedlei (Gaud.) C.A. Gardn.

TYPHACEAE

Typha domingensis Pers.

RUPPIACEAE

Ruppia spp.

JUNCAGINACEAE

Triglochin procera R.Br. (= *Cyenogeton procerum* (R.Br.) Buchen)

POACEAE

Aira caryophylla L.

A. cupaniana Guss.

A. praecox L.

A. cf. praecox L.

A. spp.

Amphipogon laguroides R.Br.

A. turbinatus R.Br.

Avena barbata Brot.

Briza maxima L.

B. minor L.

Bromus gussonii (Parl.) Nevski.

B. madritensis Brot.

B. spp.

Danthonia occidentalis J. Vickery

Deyeuxia quadriseta (Labill.) Benth.

Digitaria sanguinalis (L.) Scap.

Ehrharta calycina Sm.

E. longiflora Sm.

Hemarthria uncinata R.Br.

Lagurus ovatus L.

Lolium perenne L.

Microlaena stipoides (Labill.) R.Br.

Paspalum vaginatum Swartz.

Poa drummondiana Nees

P. serpentum Nees

Polypogon monspeliensis (L.) Desf.

Stenotaphrum secundatum (Walt.) Kuntze

Stipa compressa R.Br.

S. eremophila Reader.

S. semibarbata R.Br.

POACEAE (continued)

- Stipa variabilis* Hughes
Vulpia bromoides (L.) S.Gray
Vulpia myuros (L.) Gmel

CYPERACEAE

- Baumea articulata* R.Br.
B. juncea R.Br.
B. laxa (Nees) Benth.
B. rubiginosa
Cladium arthrophyllum F. Muell.
C. glomeratum R.Br.
C. preissii (Nees) Benth.
C. riparium (Nees) Benth.
Cyperus congestus Vahl.
C. polystachyus Rottb.
C. tenellus L.f.
Lepidosperma costale Nees
L. longitudinale Labill.
L. scabrum Nees
L. striatum R.Br.
Mesomelaena stygia (R.Br.) Nees
Schoenus brevifolius R.Br.
S. clandestinus S.T.Blake
S. curvifolius (R.Br.) Benth.
S. grandiflorus (Nees) F. Muell.
S. sublaxus Kukenth (= *S. laxus* W.V. Fitzg.)
Scirpus antarcticus L.
S. congruus (Nees) S.T.Blake
S. maritimus L.
S. nodosus Rottb.

LEMNACEAE

- Lemna minor* Linn.

RESTIONACEAE

- Hypolaena exsulca* R.Br.
Leptocarpus scariosus R.Br.
Lepyrodia muirii F.Muell.
Loxocarya pubescens (R.Br.) Benth.

RESTIONACEAE (continued)

- Lyginia barbata* R.Br.
L. tenay (Labill.) C.A.Gardn.
Restio stenostachyus W.V.Fitzg.

CENTROLEPIDACEAE

- Centrolepis aristata* (R.Br.) Roem. & Schultz
C. drummondii (Nees) Hieron.

COMMELINACEAE

- Cartonema philydroides* F. Muell.

JUNCACEAE

- Juncus articulatus* L.
J. bufonius L.
J. caespititius E. Mey
J. pallidus R.Br.
Luzula meridionalis Nordensk.

LILIACEAE

- Arnocrinum preissii* Lehm.
Asphodelus fistulosus L.
Burchardia umbellata R.Br.
Caesia parviflora R.Br.
Calectasia cynea R.Br.
Chamaescilla corymbosa (R.Br.) F. Muell.
Corynotheca micrantha (Lindl.) MacBride
Dasypogon bromeliaefolius R.Br.
Dianella revoluta R.Br.
Dichopogon strictus (R.Br.) J.G. Baker
Laxmannia ramosa Lindl.
L. squarrosa Lindl.
Lomandra endlicheri (F. Muell.) Ewart
L. micrantha (Lindl.) Ewart
L. saveolens (Endl.) Ewart
Sowerbaea laxiflora Lindl.
Thysanotus patersonii R.Br.
T. sparteus R.Br.
T. triandrus (Labill.) R.Br.
Tricoryne elatior R.Br.
Xanthorrhoea preissii Endl.

HAEMODORACEAE

- Anigozanthos humilis* Lindl.
A. manglesii D. Don
Conostylis aculeata R.Br.
C. candicans Endl.
C. juncea Endl.
C. setigera R.Br.
Haemodorum paniculatum Lindl.
H. spicatum R.Br.
H. spp.
Phlebocarya ciliata R.Br.

IRIDACEAE

- Gladiolus caryophyllaceus* (Burm.f.) Poir
Homeria breyniana (L.) Lewis
Ixia paniculata
Patersonia occidentalis R.Br.
Romulea rosea (L.) Eckl.
Tritonia spp.

ORCHIDACEAE

- Caladenia deformis* R.Br.
C. discoidea Lindl.
C. filamentosa R.Br. (var. *denticulata* (Lindl.) Reichb. f.)
C. flava R.Br.
C. gemmata Lindl.
C. huegelii Reichb. f.
C. latifolia R.Br.
C. patersonii R.Br. (var. *longicauda* (Lindl.) R.S. Rogers)
Diuris emarginata R.Br.
D. longifolia R.Br.
Elythranthera (glossida) brunonis (Endl.) A.S. Geo.
Lyperanthus nigricans R.Br.
Microtis unifolia (Forst.F.) Reichb. f.
Prasophyllum fimbria Reichb. f.
P. ovale Lindl.
P. parviflorum Lindl.
Pterostylis recurva Benth.
Thelymitra campanulata Lindl.

CASUARINACEAE

- Casuarina fraserana* Miq.
C. humilis Lindl.

PROTEACEAE

- Adenanthos obovata* Labill.
A. cygnorum Labill.
Banksia attenuata R.Br.
B. grandis Willd.
B. ilicifolia R.Br.
B. littoralis R.Br.
B. menziesii R.Br.
Conospermum stoechadis Endl.
C. triplinervium R.Br.
Dryandra nivea R.Br.
Grevillea triloba Meissn.
G. vestita (Endl.) Meissn.
Hakea lissocarpha R.Br.
H. prostrata R.Br.
Persoonia saccata R.Br.
Petrophile linearis R.Br.
Stirlingia latifolia (R.Br.) Steud.
Synaphaea polymorpha R.Br. (= *Synaphaea spinulosa* (Burm.F.) Merrill)
Xylomelum occidentale R.Br.

SANTALACEAE

- Exocarpos sparteus* R.Br.
Leptomeria empetriformis Miq.
L. spinosa (Lehm) DC
Santalum acuminatum (R.Br.) DC

LORANTHACEAE

- Nuytsia floribunda* (Labill.) R.Br.

POLYGONACEAE

- Muehlenbeckia polybotrya* Meissn.
Rumex acetosella L.
R. crispus L.

CHENOPODIACEAE

- Chenopodium ambrosioides* L.
C. carinatum R.Br.
C. pumilio R.Br.

AMARANTACEAE

- Ptilotus drummondii* (Moq.) F. Muell. (var *drummondiana*)

AIZOACEAE

- Capobrotus aequilaterus* (Haw.) N.E.Br.
C. edulis (L.) L. Bolus
Macarthuria australia Heug.

PORTULACACEAE

- Calandrinia corrigioloides* F. Muell. ex Benth.
C. neesiana Hj. Eichler
C. cf. polyandra (Hook) Benth.

CARYOPHYLLACEAE

- Cerastium glomeratum* (DC) Thuill.
Sagina apetala Ardv.
Silene gallica L.
Stellaria media (L.) Vill.
Petrorrhagia prolifera (L.) Ball & Heywood (= *Tunica* p....)

RANUNCULACEAE

- Clematis pubescens* Heug.
Ranunculus muricatus L.

LAURACEAE

- Cassytha racemosa* Nees

FUMARIACEAE

- Fumaria capreolata* L.
F. muralis Sond.

BRASSICACEAE

- Brassica tournefortii* Goun (= *Heliophylla pusilla* L.)
Nasturtium officinale R.Br.

DROSERACEAE

- Drosera erythrorrhiza* Lindl.
D. glanduligera Lehm.
D. macrantha Endl.
D. menziesii R.Br.
D. pallida Lindl. (?*D. modesta*)

CRASSULACEAE

- Crassula colorata* (Nees) Ostf.

PITTOSPORACEAE

- Pronaya fraser* (Hook) E.M. Bennett var. *fraseri*

MIMOSACEAE

- Acacia cochlearis* Labill.
A. cyclops Cunn. ex. Don.
A. huegelii Benth.
A. pulchella R.Br. (var. *glaberrima*)
A. rostellifera Benth.
A. saligna (*Cyanophylla*) (Labill.) Wendl.
A. stenoptera Benth.
A. willdenowiniana H. Weld

FABACEAE (PAPILIONACEAE)

- Aotus cordifolia* Benth.
A. ericoides (Vent.) G. Don.
Bossiaea eriocarpa Benth.
Daviesia incrassata Sm.
D. juncea Sm.
D. nudiflora Meissn.
D. polyphylla Benth. ex Lindl.
Euchilopsis linearis (Benth.) F. Muell.
Eutaxia virgata Benth.
Gompholobium tomentosum Labill.
Hardenbergia comptoniana Benth.
Hovea pungens Benth.
H. trisperma Benth.
Isotropis cuneifolia (Sm.) Domin.
Jacksonia furcellata (Bonpl.) DC
J. sternbergiana Hueg.
Kennedia prostrata R.Br.
Latrobea tenella (Meissn.) Benth.
Lupinus cosentinii Guss. (= *L. varius* L.)
Medicago polymorpha
Melilotus indica (L.) All.
Orinthopus sativus L.
Oxylobium capitatum Benth.
Pultenaea ochreatea Meissn.
P. reticulata (Sm.) Benth.
Sphaerolobium spp.
Trifolium angustifolium L.
T. campestre Schreb.
T. cernuum Brot.

FABACEAE (PAPILIONACEAE) (continued)

- Trifolium dubium* Sibth.
T. glomeratum L.
T. pratense L.
T. repens L.
T. tomentosum L.
Vicia hirsuta (L.) S.F. Gray
V. sativa L.
Viminaria juncea (Schrad.) Hoffm.

GERANIACEAE

- Erodium botrys* (Cav.) Bertol.
E. cicutarium (L.) L'Hér. ex Ait.
Geranium molle L.

OXALIDACEAE

- Oxalis pes-caprae* L.
O. purpurea L.

RUTACEAE

- *Boronia crenulata* Sm.
- *Eriostemon spicatus* A. Rich.

TREMADRACEAE

- *Platytheca verticillata* (Hueg.) Baill.

POLYGALACEAE

- Comesperma calymega* Labill.
C. flavum D.C.
C. virgatum Labill.

EUPHORBIACEAE

- Euphorbia peplus* L.
Monotaxis grandiflora Endl.
M. occidentalis Endl.
Phyllanthus calycinus Labill.
Poranthera microphylla Brongn.

CALLITRICHACEAE

- Callitriche stagnalis* Scop.

STACKHOUSIACEAE

- Stackhousia huegelii* Endl.

SAPINDACEAE

Dodonaea hackettiana A. Cunn.

DILLENACEAE

Hibbertia huegelii (Endl.) F. Muell.

H. hypericoides (DC) Benth.

H. aff. hypericoides

H. racemosa (Endl.) Gilg.

H. subvaginata (Steud.) F. Muell. (= *H. glaberrima* (Steud.) Gilg.)

VIOLACEAE

Hybanthus calycinus (Steud.) F. Muell.

THYMELAEACEAE

Pimelea angustifolia R.Br.

P. rosea R.Br.

LYTHRACEAE

Lythrum hyssopifolium L.

MYRTACEAE

Astartea fascicularis (Labill.) DC

Baeckea camphorosmae Endl.

Calytrix angulata Lindl.

C. flavescens A. Cunn.

C. fraseri A. Cunn.

Eremaea fimbriata Lindl.

E. pauciflora (Endl.) Druce

Eucalyptus gomphocephala DC

E. marginata Sm.

E. rudis Endl.

E. todtiana F. Muell.

Hypocalymma angustifolium Endl.

H. robustum Endl.

Kunzea ericifolia Reichb.

Leptospermum ellipticum Endl.

Melaleuca incana R.Br.

M. lanceolata Otto (*pubescens* Schau.)

M. nesophila F. Muell.

M. seriata Lindl.

M. teretifolia Endl.

M. thymoides Labill.

Scholtzia involucrata (Endl.) Druce

Verticordia drummondii Schau.

ONAGRACEAE

Epilobium spp.

E. billardierianum (ser. spp. *cinereum* (A. Rich.) Downen & Englehorn)

E. hirtigerum A. Cunn. (= *E. juncea* Forst., W.A. det.)

HALORAGACEAE

Glyschrocaryon aureum (Lindl.) Orchard (= *Louðonia aurea* Lindl.)

Gonocarpus cordigera (Fenzl.) Nees

Myriophyllum propinquum A. Cunn.

M. tillaeoides Diels.

APIACEAE

Centella cordifolia (Hook.f.) Nannf.

Eryngium pinnatifidum Bunge.

Foeniculum vulgare Mill.

Homalosciadium verticillatum (Turcz.) Domin.

Platysace compressa (Labill.) Spreng.

Xanthosia pusilla Bunge.

EPACRIDACEAE

Astroloma pallidum R.Br.

Brachyloma preissii Sond.

Conostephium preissii Sond.

Epacrid ?

Leucopogon spp.

L. conostephioides DC

L. oxycedrus Sond.

L. propinquus R.Br.

Lysinema ciliatum R.Br.

PRIMULACEAE

Anagallis arvensis R.Br.

LOGANIACEAE

Mitrasacme paradoxa R.Br.

GENTIANACEAE

Centaurium spicatum (L.) Fritsch

Villarsia abliflora F. Muell.

V. violifolia F. Muell.

CONVOLVULACEAE

Cuscuta epithymum L.

LAMIACEAE

Hemiandra pungens R.Br.*Stachys arvensis* L.

SOLANACEAE

Solanum nigrum

SCROPHULARIACEAE

Bellardia trixago (L.) All.*Cymbalaria muralis* Gaertn., Mey. & Scherb.*Dichisma arenarium* F. Mey.*Gratiola peruviana* Linn.*Parentucellia latifolia* Car.*P. viscosa* (L.) Caruel.*Verbascum virgatum* Stokes

OROBANCHACEAE

Orobanche australiana F. Muell.

RUBIACEAE

Opercularia vaginata Labill.*O. hispidula* Endl.

CAMPANULACEAE

Wahlenbergia capensis (L.) DC*W. spp.*

LOBELIACEAE

Lobelia alata Labill.*L. tenuior* R.Br.*Monopsis simplex* (L.) E. Wimm.

GOODENIACEAE

Dampiera linearis R.Br. "A"*D. linearis* R.Br. "B"*Goodenia filiformis* R.Br.*Lechenaultia expansa* R.Br.*Scaevola canescens* Benth. (var. *Triglochis*)

STYLIDIACEAE

Levenhookia stipitata F. Muell.*Stylidium brunonianum* Benth.*S. brunonianum* Benth. (Narrow leaf form)*S. calcaratum* R.Br.

STYLIDIACEAE (continued)

- Stylidium junceum* R.Br.
S. piliferum R.Br.
S. repens R.Br.
S. schoenoides DC

ASTERACEAE

- Angianthus humifusus* (Labill.) Benth.
Arctotheca (cryptostemma) calendula (L.) Levyns
Aster subulatus Michx.
Athrixia pulverulenta (Lindl.) Druce
Brachycome iberidifolia Benth.
Cardus pycnocephalus L.
Centaurea melitensis L.
Cirsium vulgare Ten.
Cryptostemma (Arctotheca) calendula (L.) Levyns
Erigeron bonariensis L.
Gnaphalium candidissimum Lam.
G. luteoalbum Linn.
Helipterum cotula (Benth.) DC
Hypochoeris glabra L.
H. radicata
Inula ? graveolens
Ixiolaena viscosa Benth.
Lagenophora huegelii Benth.
Milotia myosotidifolia (Benth.) Steetz.
Olearia axillaris (DC) F. Muell.
Pithocarpa corymbulosa Lindl.
Podolepsis canescens A. Cunn. ex DC
P. gracilis (Lehm.) R. Grah.
Podotheca chrysanthum (Steetz.) F. Muell.
Senecio hispidulus A. Rich.
S. lautus Forst. f. ex Willd.
Sonchus asper (L.) Mill.
Ursinia anthemoides (R.Br.) Gaertn.
Waitzia citrina (Benth.) Steetz.

NOTE

All species names taken from:

A Descriptive Catalogue of West Australian Plants

J.S. Beard

and

How to know West Australian Wildflowers Vols. I, II & III

W.E. Blackall and B.J. Grieve

1193

11/10/95

11/10/95

Spearwood South

**Objection Assessment of the
values of the vegetation and flora of the
Beeliar Wetlands**

Part Report:

Value identification
not objection
assessment section

(Contact Heritage
Commission, Melinda
Broner for complete
report) 13/5/96



Alogyne huegelii var. *glabrescens* to the west of Manning Lake

Prepared for the Australian Heritage Commission

by Bronwen Keighery, Consultant Botanist
November 1995 and February 1996

Table 2: Bushland Areas listed on the National Estate or being considered for listing.
Bushland Areas listed/interim listed on the National Estate

Bushland Area	Area (ha)	Native Flora	Flor. Com ¹⁰	Veg. Assoc.#	Veg. Comp. ¹⁸
✓ Hepburn Heights/Pinnaroo	90	230* ¹ ✓	3*	19 ¹¹	3
✓ Trigg/Karrinyup Reserves	120	175 ² ✓	4		2
✓ Banksia Road Nature Reserve	33	150 ³ ✓	3		1
✓ Marangaroo (Res 20091)	30*	130 * ⁴ ✓	1		1
✓ Neerabup National Park	1,111	242 ⁵ ✓	2		? ²
✓ Star Swamp	100	191 ⁶ ✓	3	13 ¹¹	? ²
✓ Woodvale Nature Reserve	44	170 ⁷ ✓	1		1
Beeliar Wetlands	2700	406 ²²	7	31 ¹⁸	4
✓ Thompsons Lake NR	509	199 ¹⁴ ✓		15 ¹⁴ 12 ¹⁸	3
✓ Baganup Lake	254	279 ¹⁵ ✗	4	10 ¹⁵	3
✓ Murdoch University	?	200 ¹³		5 ¹³	2
✓ Yangebup Lake	103*	140 ¹⁶ ✓		5 ¹⁶ 7 ¹⁸	2
✓ Piney Lake	68	96 ¹⁰ ✓		6 ¹⁰	1
✓ Booragoon Lake	13	34 ¹² ✓		3 ¹²	1
✓ Market Garden Lake	38	21 ¹⁷ ✓		7 ¹⁷	1

Unlisted areas subject to current nominations

✓ Kings Park	400	290 ²⁰ ✓	1	5 ²⁰	1
✓ Bold Park	221	221 ²¹ ✓	4		3
✓ M91	56	86 ²³ ✓	2		1

these are not directly compatible as they are based on variety of approaches to describing vegetation associations

* estimate of area, flora or floristic community types

1 estimate based on Keighery (1991), Tingay (1991), Foulds (1988) and AHC Listing Document

2+ G. Keighery pers. comm.

3+ G. Keighery pers. comm.

4 estimate from knowledge of the area

5+ G. Keighery pers. comm.

6 Bell *et al.* (1984)

7 Keighery and Langley (1994)

8 Gibson *et al.* (1994) and System 6 Update

9 Tingay (1991)

10 Rodda (1986)

11 Weston and Clay (1980)

12 Smith (1985)

13 Dell and Bennett (1986)

14 Crook and Evans (1981)

15 Clay (1986)

16 Ecoscape (1994)

17 Ecoscape (1995)

18 Newman *et al.* (1976)

19 Heddle *et al.* (1980)

20 Bennet in Kings Park Bushland Draft Management Plan (1993)

21 Keighery, Harvey and Keighery (1991)

22 Appendix Flora

23 Keighery and Keighery 1993

+ Reserve flora lists for bushland areas on the Swan Coastal Plain are being compiled by G.J. Keighery with assistance from B.J. Keighery and N. Gibson to establish a better knowledge of the flora of these areas and to address species conservation status for the Swan Coastal Plain.

Table 3: Floristic Community Types found in the study area

Each site is located Map 1. Study site codes refer to the following areas:

- Thom - Thomson Lake Nature Reserve (Gibson *et al.* 1994)
 Harry - Banganup Lake and adjacent bushland, Harry Waring Marsupial Reserve
 or Jandakot Research Station (Gibson *et al.* 1994)
 MTB - Lakes Mount Brown and Brownman Swamps and adjacent bushland (Gibson *et al.* 1994)
 NAVB - M 91 (Gibson *et al.* 1994)
 Beel - 1 & 2 North Lake and adjacent bushland (System 6 Update 1995)
 - 3 Murdoch University

Floristic Community Type (site)	Generalised Description	Predominant Landform Type (after Churchward and McArthur 1980)
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Wetland Super Group

5 (Map 2a) Harry 3	Mixed shrub damplands Mean species richness per site: 38.4 Av.Cond: 2.1, Cons status: Low risk	Bassendean/Pinjarra
11 (Map 2a) Harry 6 Beel 3	Wet forests and woodlands Mean species richness per site: 27.2 Av.Cond: 2.7, Cons status: Low risk	Bassendean/Pinjarra
16 (Map 2a) *NAVB 1	Highly saline seasonal wetlands Mean species richness per site: 13.5 Av.Cond: 2.9, Cons status: Vulnerable	coastal and esturine
17 (Map 2a) MTB 05	<i>Melaleuca raphiophylla</i> - <i>Ghania trifida</i> seasonal wetlands Mean species richness per site: 13.6 Av.Cond: 2.3, Cons status: Low risk	Quindalup/ Spearwood

Bassendean Dune Super Group

21a (Map 2b) Harry 05	Central <i>Banksia attenuata</i> - <i>E. marginata</i> woodlands Mean species richness per site: 54.6 Av.Cond: 2.5, Cons status: Low risk	Bassendean/ Spearwood
23a Map 2b) Harry 04 #Beel 02	Central <i>Banksia attenuata</i> - <i>B.menziesii</i> woodlands Mean species richness per site: 62.8 Av.Cond: 2, Cons status: Low risk	Bassendean

Spearwood/Quindalup Dune Super Group

24 (Map 2b) Thom 02 MTB 1, 2, 3 & 4 *NAVB3 &4	Northern Spearwood shrublands and woodlands Mean species richness per site: 41.8 Av.Cond: 3, Cons status: Susceptible	Spearwood
28 (Map 2b) #Beel 1 Harry 1 & 2	Spearwood <i>Banksia attenuata</i> or <i>Banksia attenuata</i> - <i>Eucalyptus</i> woodlands Mean species richness per site: 55.2 Av.Cond: 2.5, Cons status: Low risk	Spearwood
29a (Map 2b) *NAVB 2	Coastal shrublands on shallow sands Mean species richness per site: 40.7 Av.Cond: 2.3, Cons status: Susceptible	Quindalup

Appendix 1

This list was compiled from a series of published and unpublished lists for the study area. The principle references are cited in the key to column 4. Records were also extracted from the text of Environmental Science Murdoch University (1986) and Newman *et al* (1980). As most of these lists date from the 1980's there was a need to update the nomenclature.

Some additions have also been made from field visits in October and November 1995 for this study.

Key

Column 1: Taxon

Taxa are listed alphabetically in family, genera and species. Nomenclature is after Gibson *et al.* (1994). A * preceding a the genus name indicate a non-native taxon, these may be naturalised taxa or planted taxa.

Column 2: Priority Code (Department of Conservation and Land Management 1995)

Column 3: Geographical Range/Significant Taxa

N = Populations at the northern limit of their known range

S = Populations at the southern limit of their known range

W = Populations at the western limit of their known range

Geographic Limit - Location of limits as defined above.

= Significant taxa (see Sections 3.3.1 and 3.4.1.2 for details of significance)

Column 4: Areas

P Piney Lake Reserve (Rodda 1986)

Ba Banganup Lake (Weston and Clay 1980)

Bo Booragoon (Lake Smith 1985)

M Murdoch University (Dell and Bennett 1986)

T Thompson's Lake Nature Reserve (Crook and Evans 1981)

S The Spectacles (Clay 1986)

Y Yangebup Lake (Ecoscape 1994)

Ma Manning Lake (this report)

MG Market Garden Swamps (Ecoscape 1995)

MB Floristic Database for Swan Coastal Plain (Gibson *et al.* 1994) and System 6 Update

F Floristic Database for Swan Coastal Plain (Gibson *et al.* 1994) and System 6 Update.

91 System 6 area M91 (Keighery and Keighery 1993)

Taxon	Prio Code	Geographic Range	Recorded Areas	29
Aizoaceae				
*Carpobrotus aquilaterale			P, Ba, T, S	
*Carpobrotus edulis			Ba, Bo, M, T, Y, F, 91	
Carpobrotus virescens			91	
Carpobrotus virescens X edulis			91	
*Tetragonia decumbens			F, 91	
Amaranthaceae				
Ptilotus drummondii			Ba, T, Y, 91	
Ptilotus ?manglesii			P	
Ptilotus polystachyus			M, Y	
Anredaceae				
*Anredera cordifolia			MG	
Anthericaceae				
Arnocrinum preissii			Ba, T, Y	
Caesia micrantha			Ba, M, T	
Caesia occidentalis			F	
Chamaescilla corymbosa			Ba, M, T, S, F	
Corynotheca micrantha			Ba, M, T, S, Y	
Dichopogon capillipes			Ba, T, Y, F	
Laxmannia ramosa			Ba	
Laxmannia squarrosa			P, Ba, T, M, F	
Sowerbaea laxiflora			P, Ba, M, T, S, Y, F	
Thysanotus arenarius			Y	
Thysanotus asper			M	
Thysanotus manglesianus/patersonii complex			P, Ba, T, Y, F, 91	
Thysanotus multiflorus			M	
Thysanotus sparteus			Ba, T, Y, F	
Thysanotus thyrsoideus			F	
Thysanotus triandrus			Ba, M, Y, F	
Tricoryne elatior			Ba, Bo, M, T, S, Y	
Tricoryne tenella			F	
Amaryllidaceae				
*Narcissus tazetta				
Apiaceae				
Apium annuum			F, 91	
Apium prostratum			F	
Centella cordifolia			Ba, Bo, M, T, S, Y	
Daucus glochidiatus			F, 91	

Taxon	Prio Code	Geographic Range	Recorded Areas	30
<i>Eryngium pinnatifidum</i> subsp. <i>pinnatifidum</i>			Ba, M, T, Y, F	
* <i>Foeniculum vulgare</i>			T, Y, Mg, Ma, 91	
<i>Homalosciadium homalocarpum</i>			Ba, Y, F	
<i>Hydrocotyle diantha</i>			F	
<i>Hydrocotyle scutellifera</i>			F	
<i>Platysace compressa</i>			Ba, M, T, F	
<i>Trachymene pilosa</i>			M, Y, F	
<i>Xanthosia huegelii</i>			Ba, M, , S, Y, F	
Araceae				
* <i>Zantedeschia aethiopica</i>			S, Y, H, MG, F	
Asclepidaceae				
* <i>Gomphocarpus fruticosus</i>			MG	
Asparagaceae				
* <i>Myrsiphyllum asparagoides</i>			Ma	
Asphodelaceae				
* <i>Asphodelus fistulosus</i>			Ba, M, T, 91	
* <i>Trachyandra divaricata</i>			91	
Asteraceae				
* <i>Arctotheca calendula</i>			Ba, T, S, Y, 91	
* <i>Aster subulatus</i>			Ba, T, F	
<i>Asteridea pulverulenta</i>			Ba, Y	
<i>Brachyscome iberidifolia</i>			Ba, M	
* <i>Carduus pycnocephalus</i>			Ba	
* <i>Centaurea melitensis</i>			Ba, F, 91	
* <i>Cirsium vulgare</i>			Ba, MG, 91	
* <i>Conyza albida</i>			F, 91	
* <i>Conyza bonariensis</i>			Bo, F, 91	
<i>Cotula coronopifolia</i>			Ma	
* <i>Dittrichia graveolens</i>			MG, 91	
* <i>Helianthus annua</i>			MG	
<i>Helichrysum cordatum</i>			M, 91	
<i>Hyalosperma cotula</i>			Ba, T, F, 91	
* <i>Hypochaeris glabra</i>			Ba, Bo, S, Y, MG, F, 9	
<i>Ixiolaena viscosa</i>	N	North Lake	Bi, N, F	
* <i>Lactuca serriola</i>			Y, F	
<i>Lagenifera huegelii</i>			Ba, S, Y, F	
<i>Millotia myosotidifolia</i>			Ba, M, t	
<i>Millotia tenuifolia</i>			F	

Taxon	Prio Code	Geographic Range	Recorded Areas	31
<i>Olearia axillaris</i>			Ba, M, T, F, 91	
<i>Olearia elaeophila</i>			Y	
<i>Pithocarpa corymbulosa</i>			Y	
<i>Podolepis canescens</i>			Ba, T	
<i>Podolepis gracilis</i>			Ba, M, T, Y, F	
<i>Podotheca angustifolia</i>			Y, F	
<i>Podotheca chrysantha</i>			Ba, M, T, F	
<i>Podotheca gnaphalioides</i>			P	
<i>Pseudognaphalium luteoalbum</i>			Ba, F	
<i>Quinetia urvillei</i>			Y, F	
<i>Senecio hispidulus</i>			Ba, T	
<i>Senecio lautus</i>			Ba, M, T, Y, F, 91	
<i>Siloxerus humifusus</i>			Ba, M, F	
* <i>Solidago canadensis</i>			MG	
* <i>Sonchus asper</i>			Ba, M, F, 91	
<i>Sonchus hydrophilus</i>			F, 91	
* <i>Sonchus oleraceus</i>			F, 91	
* <i>Taraxacum officinale</i>			MG	
* <i>Urospermum picroides</i>			F, 91	
* <i>Ursinia anthemoides</i>			Ba, S, Y, F	
* <i>Vellereophyton dealbatum</i>			Ba, T, F, 91	
<i>Waitzia citrina</i>			T, F	
<i>Waitzia suaveolens</i>			F	
Azollaceae				
<i>Azolla filiculoides</i>			Y, H	
Brassicaceae				
* <i>Brassica oxyrrhina</i>			Y	
* <i>Brassica tournefortii</i>			Ba, MG, F, 91	
* <i>Heliophila pusilla</i>			Ba, F, 91	
* <i>Lobularia maritima</i>			MG	
* <i>Sisymbrium orientale</i>			MG	
* <i>Raphanus raphanistrum</i>			BO, MG	
* <i>Rorippa naturtium-aquaticum</i>			Ba, T	
Callitrichaceae				
* <i>Callitriche stagnalis</i>			Ba	
Campanulaceae				
* <i>Wahlenbergia capensis</i>			Ba, Y	
<i>Wahlenbergia preissii</i>			Ba, F	

Taxon	Prio Code	Geographic Range	Recorded Areas	32
Cannaceae				
* <i>Canna generalis</i>			MG	
* <i>Canna ochnoides</i>			MG	
Caryophyllaceae				
* <i>Arenaria serpyllifolia</i>			F	
* <i>Cerastium glomeratum</i>			Ba, F	
* <i>Minuartia hybrida</i>			F, 91	
* <i>Petrorhagia velutina</i>			Ba, T, Y, 91	
* <i>Sagina apetala</i>			Ba, F	
* <i>Sagina maritima</i>			F, 91	
* <i>Silene gallica</i>			Ba, T, Y, F, 91	
* <i>Stellaria media</i>			Ba, F, 91	
Casuarinaceae				
<i>Allocasuarina fraseriana</i>			P, Ba, M,, T, S, Y, F	
<i>Allocasuarina humilis</i>			P, Ba, M,, T, S, F, 91	
Centrolepidaceae				
<i>Centrolepis aristata</i>			Ba	
<i>Centrolepis drummondiana</i>			Ba, T, Y, F	
Chenopodiaceae				
<i>Atriplex cinerea</i>			F, 91	
<i>Atriplex hypoleuca</i>			Ma	
* <i>Atriplex prostrata</i>			T	
* <i>Chenopodium album</i>			MG	
* <i>Chenopodium ambrosioides</i>			Ba, T	
* <i>Chenopodium murale</i>			91	
<i>Chenopodium pumilio</i>	N	Balangup I	Ba	
<i>Rhagodia baccata</i>			F	
<i>Rhagodia baccata</i> subsp. <i>baccata</i>			91	
# <i>Rhagodia baccata</i> subsp. <i>dioica</i>			91	
<i>Sarcocornia quinqueflora</i>			MG, Ma, F, 91	
<i>Suaeda australis</i>			MG, 91	
<i>Threlkeldia diffusa</i>			F, 91	
Colchicaceae				
<i>Burchardia congesta</i>			P, Ba, Bo, M,, T, S, Y, F	
Commelinaceae				
<i>Cartonema philydroides</i>			Ba, M, T	
* <i>Tradescantia fluminense</i>			Bo	

Taxon	Prio Code	Geographic Range	Recorded Areas	33
Convolvulaceae				
# <i>Wilsonia backhousei</i>			91	
# <i>Wilsonia humilis</i>			91	
Crassulaceae				
<i>Crassula colorata</i>			P, Ba, Y, F, 91	
<i>Crassula exserta</i>			F, 91	
* <i>Crassula glomerata</i>			Ma, F, 91	
<i>Crassula pedicellosa</i>			F	
Cucurbitaceae				
* <i>Citrullus lanatus</i>			MG	
* <i>Cucumis myriocarpus</i>			S, MG	
Cuscutaceae				
* <i>Cuscuta epithymum</i>			Ba	
Cyperaceae				
<i>Baumea arthrophylla</i>			Ba, T	
<i>Baumea articulata</i>			P, Ba, M, T, S, F	
<i>Baumea juncea</i>			T, Y, F	
<i>Baumea preissi</i>			Ba, T	
<i>Baumea riparia</i>			Ba, T	
<i>Baumea rubigenosa</i>			Ba, T	
<i>Bolboschoenus caldwellii</i>			Ba, T, MG	
<i>Carex preissii</i>			F	
* <i>Cyperus congestus</i>			Ba, T, S, Y, MG	
* <i>Cyperus eragrostis</i>			Y	
<i>Cyperus polystachyos</i>			Ba, T	
* <i>Cyperus rotundus</i>			Bo, MG	
* <i>Cyperus tenellus</i>			P	
* <i>Cyperus tenuiflora</i>			Bo, M	
# <i>Eleocharis sphacelata</i>			K	
# <i>Fimbristylis vilata</i>			M, S	
<i>Gahnia trifida</i>			Ma, MG, F, MB	
<i>Isolepis cernua</i>			F, 91	
<i>Isolepis marginata</i>			Ba, T, F	
<i>Lepidosperma angustatum</i>			M, S, Y, F, 91	
<i>Lepidosperma costale</i>			Ba, T	
<i>Lepidosperma drummondii</i>			M	
# <i>Lepidosperma gracile</i>			M	
<i>Lepidosperma longitudinale</i>			Ba, Bo, M, T, S, F	

Taxon	Prio Code	Geographic Range	Recorded Areas	34
<i>Lepidosperma scabrum</i>			Ba, T, S	
<i>Lepidosperma</i> sp. (Coastal terete BJK & NG 231)			F	
<i>Lepidosperma tenue</i>			M, S	
<i>Lepidosperma squamatum</i>			Y, F	
<i>Mesomelaena pseudostygia</i>			P, Ba, M, T, S, Y, F	
<i>Mesomelaena tetragona</i>			P	
<i>Schoenus</i> aff. <i>laevigatus</i>			F	
<i>Schoenus brevisetis</i>			F	
<i>Schoenus brevifolius</i>			Ba, T	
<i>Schoenus clandestinus</i>			Ba, Y, F	
<i>Schoenus curvifolius</i>			Ba, M, T, S, Y, F	
<i>Schoenus grandiflorus</i>			Ba, T, S, Y, 91	
<i>Schoenus rodwayanus</i>			F	
<i>Schoenus subflavus</i>			Ba, T	
<i>Tetraria octandra</i>			P, M, Y, F	
Dasyogonaceae				
<i>Acanthocarpus preissii</i>			F, 91	
<i>Calectasia cyanea</i>			Ba, M, T, S	
<i>Dasyogon bromeliifolius</i>			P, Ba, M, T, S, F	
<i>Lomandra caespitosa</i>			F	
<i>Lomandra hermaphrodita</i>			F	
<i>Lomandra integra</i>			M	
<i>Lomandra maritima</i>			Ma, F, 91	
<i>Lomandra micrantha</i>			Ba	
<i>Lomandra nigricans</i>			Ba, T, F	
<i>Lomandra preissii</i>			F	
<i>Lomandra suaveolens</i>			Ba, M, F	
Dennstaedtiaceae				
<i>Pteridium esculentum</i>			Bo, T, S, P, H, N	
Dilleniaceae				
<i>Hibbertia acerosa</i>			91	
<i>Hibbertia huegelii</i>			Ba, M, T, Y, F	
<i>Hibbertia hypericoides</i>			P, Ba, M, T, S, Y, Ma F, 91	
<i>Hibbertia racemosa</i>			P, Ba, M, T, S, Y, F, 91	
<i>Hibbertia spicata</i> subsp. <i>leptotheca</i>	3	S	Yalgorup	F, 91
<i>Hibbertia stellaris</i>			P, M	
<i>Hibbertia subvaginata</i>			M, T, F	

Taxon	Prio Code	Geographic Range	Recorded Areas	35
Droseraceae				
<i>Drosera erythrorhiza</i>			Ba, M, T, S, Y, F	
<i>Drosera gigantea</i> subsp. <i>gigantea</i>			P	
<i>Drosera glanduligera</i>			Ba, M, T	
<i>Drosera macrantha</i>			Ba, M, T, S, F	
<i>Drosera menziesii</i> subsp. <i>penicillaris</i>			P, Ba, M, T, F	
<i>Drosera paleacea</i>			Ba, M, Y, F	
<i>Drosera pallida</i>			Ba, M, Y, F	
<i>Drosera stolonifera</i>			M, Y, F	
Epacridaceae				
<i>Acrotriche cordata</i>			91	
<i>Astroloma pallidum</i>			Ba, M, T, S, Y, F	
<i>Brachyloma preissii</i>			Ba, M, F	
<i>Conostephium pendulum</i>			P, T, S, Y, F	
<i>Conostephium preissii</i>			Ba, M, T, Y	
<i>Leucopogon australis</i>			P, M, 91	
<i>Leucopogon conostephioides</i>			Ba, M, T, Y	
<i>Leucopogon gracillimus</i>			F	
<i>Leucopogon oxycedrus</i>			Ba	
<i>Leucopogon parviflorus</i>			M, Ma, F	
<i>Leucopogon propinquus</i>			Ba, Bo, M, T, S, Y, F	
<i>Leucopogon racemulosus</i>			M, F	
<i>Lysinema ciliatum</i>			P, Ba, M, T, S	
Euphorbiaceae				
* <i>Euphorbia peplus</i>			Ba, T, Y, Ma, MG, F, 91	
* <i>Euphorbia terracina</i>			Y, Ma, 91	
<i>Monotaxis grandiflora</i>			P, Ba, M	
<i>Monotaxis occidentalis</i>			Ba, Y	
<i>Phyllanthus calycinus</i>			Ba, M, T, S, Ma, F, 91	
<i>Poranthera microphylla</i>			Ba, F	
* <i>Ricinus communis</i>			Y, MG	
Fagaceae				
* <i>Quercus suberus</i>			P	
* <i>Quercus</i> sp.			S	
Frankeniaceae				
<i>Frankenia pauciflora</i>			91	
Fumariaceae				
* <i>Fumaria capreolata</i>			Ba, T	

Taxon	Prio Code	Geographic Range	Recorded Areas	36
* <i>Fumaria muralis</i>			Ba, T	
Gentianaceae				
* <i>Centaurium erythraea</i>			F	
* <i>Centaurium spicatum</i>			Ba	
Geraniaceae				
* <i>Erodium botrys</i>			Ba, T	
* <i>Erodium cicutarium</i>			Ba, T, F, 91	
* <i>Geranium molle</i>			Ba, T, F, 91	
* <i>Pelargonium capitatum</i>			P, T, S, Ma, MG, F, 91	
* <i>Pelargonium domesticum</i>			Bo	
<i>Pelargonium littorale</i>			F	
Goodeniaceae				
<i>Dampiera linearis</i>			P, Ba, M, T, S, F	
# <i>Dampiera triloba</i>			M	
<i>Goodenia ?pulchella</i>			Ba, M, T	
# <i>Lechenaultia biloba</i>		W	M	
<i>Lechenaultia expansa</i>			Ba, T	
<i>Lechenaultia floribunda</i>			P, M, S, Y	
<i>Lechenaultia linarioides</i>		S	Spectacle S	
<i>Scaevola canescens</i>			Ba, M, T, S, Y	
<i>Scaevola crassifolia</i>			91	
<i>Scaevola globulifera</i>			M	
<i>Scaevola repens</i>			M, Y	
Haemodoraceae				
<i>Anigozanthos humilis</i>			P, Ba, M, T, S, Y, F	
<i>Anigozanthos manglesii</i>			P, Ba, M, T, S, Y	
<i>Anigozanthos viridis</i>			T	
<i>Conostylis aculeata</i>			P, Ba, M, T, S, Y, F, 91	
<i>Conostylis candicans</i>			P, M, T, F	
<i>Conostylis setigera</i>			P, Ba, M, T, Y, F	
<i>Haemodorum paniculatum</i>			Ba, M, T, Y	
<i>Haemodorum spicatum</i>			Ba, Bo, T, Y	
<i>Phlebocarya ciliata</i>			P, Ba, M, T, S, F	
<i>Tribonanthes ?uniflora</i>			P	
Gyrostemonaceae				
<i>Tersonia cyathiflora</i>			MB	
Haloragaceae				
<i>Glischrocaryon aureum</i>			Ba	

Taxon	Prio Code	Geographic Range	Recorded Areas	37
Gonocarpus cordiger			Ba	
Gonocarpus pithyoides			F	
Myriophyllum crispatum			Ba	
Myriophyllum integrifolia			Ba	
Iridaceae				
* Chasmanthe floribunda			S	
* Gladiolus caryophyllaceus			P, Ba, M, T, S, Y, F, 91	
* Homeria flaccida			Ba, Y, F, 91	
* Ixia paniculata			Ba	
Patersonia occidentalis			P, Ba, M, T, S, Y, F	
Patersonia occidentalis (swamp form)			N	
* Romulea rosea			Ba, M, T, S, Y, F, 91	
* Tritonia sp.			B	
Juncaceae				
* Juncus acutus			MG, C	
* Juncus articulatus			Ba	
* Juncus bufonius			Ba	
Juncus caespiticius			Ba	
Juncus kraussii			MG, Ma	
Juncus pallidus			P, Bo, M, T, S, Y	
Luzula meridionalis			Ba, T	
Juncaginaceae				
Triglochin calcitrapum			91	
Triglochin procerum			Ba, M, T, F	
Lamiaceae				
# Hemigenia sericea			MB	
Hemiandra pungens			P, Ba, M, T	
* Stachys arvensis			Ba	
Lauraceae				
Cassytha flava			F, 91	
Cassytha glabella			M	
Cassytha pubescens			91	
Cassytha racemosa			Ba, M, T, F, 91	
Lemnaceae				
Lemna disperma			Ba	
Lobeliaceae				
Lobelia alata			F	
Lobelia tenuior			F	

Taxon	Prio Code	Geographic Range	Recorded Areas	38
Loganiaceae				
Mitrasacme paradoxa			Ba	
Loranthaceae				
Nuytsia floribunda			P, Ba, Bo, M, T	
Lythraceae				
* Lythrum hyssopifolia			Ba	
Malvaceae				
Allogyne huegelii var. glabrescens		S Manning L.	Ma	
* Lavatera plebeia		in Metro area in Yalgoo	MG, 91	
Lawrenzia spicata			91	
* Malva parviflora			MG	
Menyanthaceae				
Villarsia albiflora			Ba	
Villarsia ?capitata			Ba, T	
Mimosaceae				
Acacia cochlearis			Ba, T, Y, F	
Acacia cyclops			Ba, M, T, Y, MG, 91	
Acacia huegelii			Ba, M, T, Y, MG, 91	
Acacia lasiocarpa var. lasiocarpa			F, 91	
* Acacia longifolia			Y, Bl	
Acacia pulchella			P, Ba, Bo, M, T, Y, MG, F, 91	
Acacia rostellifera			T, Ma, F, 91	
Acacia saligna			P, Ba, Bo, M, T, Y, MG, Ma, F, 91	
Acacia stenoptera			Ba, M, T, S, Y, F	
Acacia truncata			Ma, 91	
Acacia willdenowiana			P, M, T, Y	
Molluginaceae				
Macarthuria australis			Ba, T	
Moraceae				
* Ficus carica			MG, H, Ma	
* Morus nigra			MG, Ma, S	
Myoporaceae				
Eremophila glabra			F, 91	
Myoporum insulare			91	
Myrtaceae				
Agonis linearifolia			M, N, H	
Astartea aff. fascicularis			Ba, Bo, M, T, S, Y, F	
Baeckea camphorosmae			Ba, T, S	

Taxon	Prio Code	Geographic Range	Recorded Areas	39
<i>Beaufortia elegans</i>			M	
<i>Calothamnus lateralis</i>			P	
<i>Calothamnus quadrifidus</i>			Ma, 91	
<i>Calytrix angulata</i>			Ba, T, S	
<i>Calytrix flavescens</i>			Ba, M, T, F	
<i>Calytrix fraseri</i>			Ba, M, T, F	
* <i>Chamelaucium uncinatum</i>		S Bold Park	P, M, Ma, Y	
<i>Eremaea ?asterocarpa</i>			Ba, T	
<i>Eremaea pauciflora</i>			Ba, M, T	
<i>Eucalyptus calophylla</i>			P, Ba, M, S, Y, F	
* <i>Eucalyptus citriodora</i>			P	
<i>Eucalyptus decipiens</i>			Ma, MB, 91	
<i>Eucalyptus gomphocephala</i>		Ba, M, T, S, Y, Ma, MG, MB, Ma, F		
<i>Eucalyptus marginata</i>			P, Ba, M, T, S, Y, F	
<i>Eucalyptus rudis</i>			P, Ba, Bo, M, T, S, Y, F	
<i>Eucalyptus todtiana</i>			Ba, T, Y, F	
<i>Hypocalymma angustifolium</i>			P, Ba, M, T, F	
<i>Hypocalymma robustum</i>			P, Ba, M, T, S, Y, F	
<i>Kunzea ericifolia</i>			Ba, M, T, S, Y, F	
* <i>Leptospermum laevigatum</i>			P, M, S, Y, MG	
<i>Melaleuca acerosa</i>			Ma, F, 91	
<i>Melaleuca cuticularis</i>			Co, MG	
<i>Melaleuca huegelii</i>			Ma, MB, 91	
<i>Melaleuca incana</i>			S	
* <i>Melaleuca lanceolata</i>			Ma	
<i>Melaleuca lateritia</i>			P, M, Ro, S, F	
<i>Melaleuca preissiana</i>			Ba, Bo, M, T, S, Y, F	
<i>Melaleuca raphiophylla</i>		P, Bo, M, S, Y, Ma, MG, Co, Ma, F		
<i>Melaleuca seriata</i>			Ba, M	
<i>Melaleuca teretifolia</i>			P, Ba, Bo, M, T, S, MG, F	
<i>Melaleuca thymoides</i>			P, Ba, M, T, F	
<i>Melaleuca viminea</i>			MG	
<i>Pericalymma ellipticum</i>			P, Ba, M, F	
<i>Regelia inops</i>			M	
<i>Scholtzia involucrata</i>			Ba, M, T, S, F	
<i>Verticordia drummondii</i>			Ba, T	
Oleaceae				
* <i>Olea europea</i>			MG	

Taxon	Prio Code	Geographic Range	Recorded Areas	40
Onagraceae				
<i>Epilobium billardierianum</i>			Ba, F	
<i>Epilobium hirtigerum</i>			Ba, F	
* <i>Oenothera stricta</i>			MG	
Orchidaceae				
<i>Caladenia deformis</i>			Ba, T, S, Y	
<i>Caladenia denticulata</i>			Ba, T	
<i>Caladenia discoidea</i>			Ba, T	
<i>Caladenia flava</i>			P, Ba, T, S, Y, F	
<i>Caladenia gemmata</i>			Ba, T	
<i>Caladenia latifolia</i>			Ba, T, Y, F, 91	
<i>Caladenia longicauda</i>			Ba, M, T	
<i>Caladenia ?paludosa</i>			Ba, M, T	
<i>Diuris emarginata</i>			Ba, T	
<i>Diuris longifolia</i>			P, Ba, M, T, F	
<i>Elythranthera brunonis</i>			P, Ba, M, T, F	
<i>Elythranthera emarginata</i>			M	
# <i>Epiblema grandiflorum</i>			Ba	
<i>Leporella fimbriata</i>			M	
<i>Lyperanthus nigricans</i>			Ba, M, Y	
<i>Microtis media</i>			Ba, M, T, Y, F	
* <i>Monadenia bracteata</i>			F, 91	
<i>Prasophyllum fimbria</i>			Ba	
<i>Prasophyllum ovale</i>			Ba, T	
<i>Prasophyllum parvifolium</i>			Ba	
<i>Pterostylis aff. nana</i>			M, T	
<i>Pterostylis recurva</i>			Ba	
<i>Pterostylis scabra var. robusta</i>			M	
<i>Pterostylis vittata</i>			M, S, Y	
<i>Thelymitra benthamiana</i>			F	
<i>Thelymitra campanulata</i>			Ba, M, T	
<i>Thelymitra crinita</i>			M	
Orobanchaceae				
* <i>Orobanche minor</i>			Ba, M, Y	
Oxalidaceae				
* <i>Oxalis pes-caprae</i>			Ba, T	
* <i>Oxalis purpurea</i>			Ba, T	

Taxon	Prio Code	Geographic Range	Recorded Areas	41
Papilionaceae				
<i>Aotus cordifolia</i>			P, Ba, M	
<i>Aotus gracillima</i>			P, Ba, M, T	
<i>Aotus procumbens</i>			M, Y	
<i>Bossiaea eriocarpa</i>			P, Ba, M, , S, YTF	
? <i>Callistachys lanceolata</i>			P	
* <i>Cystus prolifera</i>			M	
<i>Daviesia decurrens</i>			Ba, M, T, Y	
<i>Daviesia divaricata</i>			P, M, Y, F	
<i>Daviesia nudiflora</i>			Ba, M, T, Y	
<i>Daviesia physodes</i>			P, BL, Ba, M, T, S	
<i>Daviesia triflora</i>			P, Ba, M, T, S, Y, F	
<i>Eutaxia virgata</i>			E, Ba, M	
<i>Gompholobium confertum</i>			M	
<i>Gompholobium tomentosum</i>			P, Ba, M, T, S, Y, F	
<i>Hardenbergia comptoniana</i>			P, Ba, Bo, M, T, S, Y, MG, , 91F	
<i>Hovea pungens</i>			P, Ba, M, T, S, F	
<i>Hovea trisperma</i>			Ba, M, T, S, F	
<i>Isotropis cuneifolia</i>			Ba, M, T, S, Y, F	
<i>Jacksonia aff. sericea</i> (swamp form)	eP		N	
<i>Jacksonia furcellata</i>			P, Ba, Bo, M, T, S, Y, 91	
<i>Jacksonia sternbergiana</i>			P, Ba, Bo, M, T, S, Y, F	
<i>Kennedia coccinea</i>			91	
<i>Kennedia prostrata</i>			P, Ba, Bo, M, T, S, Y, F	
<i>Latrobea tenella</i>			Ba, M	
* <i>Lupinus angustissimus</i>			Y, MG	
* <i>Lupinus cosentinii</i>			Ba, T, S, Y, MG	
* <i>Medicago polymorpha</i>			Ba, T	
* <i>Melilotus indicus</i>			Ba, T, MG, F, 91	
<i>Nemcia capitata</i>			P, Ba, M, T, S, Y, F	
<i>Nemcia reticulata</i>			F, 91	
* <i>Ornithopus sativus</i>			Ba	
<i>Oxylobium lineare</i>			P, M	
<i>Pultenaea ochreatea</i>			Ba, M, T, S	
<i>Pultenaea reticulata</i>			P, Ba, T, S, F	
<i>Sphaerolobium vimineum</i>			Ba, M, F	
<i>Templetonia retusa</i>			Ma, MG	
* <i>Trifolium angustifolium</i>			Ba	

Taxon	Prio Code	Geographic Range	Recorded Areas	42
* <i>Trifolium arvense</i>			MG	
* <i>Trifolium campestre</i>			Ba, T, Y, F, 91	
* <i>Trifolium cernuum</i>			Ba, F, 91	
* <i>Trifolium dubium</i>			Ba, T	
* <i>Trifolium glomeratum</i>			Ba	
* <i>Trifolium pratense</i>			Ba, t	
* <i>Vicia hirsuta</i>			Ba, T	
* <i>Vicia sativa</i>			P, Ba, M, T, M, F	
<i>Viminaria juncea</i>			Ba, M, T, S	
Phytolaccaceae				
* <i>Phytolacca octandra</i>			91	
Phormiaceae				
<i>Dianella revoluta</i>			P, Ba, Bo, M, T, S, Y, MG, 9	
Pinaceae				
* <i>Pinus pinaster</i>			P, Ma	
Pittosporaceae				
<i>Pittosporum phylliraeoides</i>			MG	
<i>Pronaya fraseri</i>			Ba, M	
<i>Sollya heterophylla</i>			MG	
Plantaginaceae				
* <i>Plantago lanceolata</i>			MG	
Poaceae				
* <i>Aira caryophyllea</i>			Ba, Y, F, 91	
* <i>Aira cupaniana</i>			Ba	
* <i>Aira praecox</i>			Ba	
<i>Amphipogon laguroides</i>			Ba, M, T, F	
<i>Amphipogon turbinatus</i>			Ba, M, T, F	
* <i>Arundo donax</i>			Y, MG	
* <i>Avellinia michelii</i>			F	
* <i>Avena barbata</i>			P, Ba, T, F, 91	
* <i>Avena fatua</i>			Y, MG, F	
* <i>Briza maxima</i>			P, Ba, T, S, Y, F, 91	
* <i>Briza minor</i>			P, Ba, T, S, Y, MG, F, 91	
* <i>Bromus diandrus</i>			F, 91	
* <i>Bromus hordeaceus</i>			F, 91	
* <i>Catapodium rigidum</i>			91	
* <i>Cortaderia selloana</i>			T	
<i>Cynodon dactylon</i>			Bo, T, S, Y, MG	

Taxon	Prio Code	Geographic Range	Recorded Areas	43
Danthonia occidentalis			Ba, T, F, 91	
Deyeuxia quadriseta			Ba, T, F	
* Diandrus gussonii			Ba, T	
Dichelachne crinita			F	
* Digitaria sanguinalis			Ba	
* Echinochloa crus-galli			MG	
* Ehrharta calycina			P, Ba, Bo, T, S, Y, MG, F, 91	
* Ehrharta longiflora			Ba, T, Y, F	
Hemarthria uncinata			Ba, T	
* Holcus setiger			F	
* Hordeum leporinum			Y	
* Lagurus ovatus			Ba, T, Y, MG, F, 91	
* Lolium multiflorum			91	
* Lolium perenne			Ba, T	
* Lolium rigidum			Y, F	
Microlaena stipoides			Ba, T, F	
* Paspalum dilatatum			MG	
* Paspalum distichum			Y, MG	
* Paspalum vaginatum			Ba, T, Y	
* Pennisetum clandestinum			Bo, S, Y, MG, Ma	
* Phalaris minor			91	
* Poa annua			F	
Poa drummondiana			Ba, T, 91	
Poa poiformis/porphyroclados			Ba, F, 91	
* Polypogon monspeliensis			Ba, T	
* Rhynchelytrum repens			Y	
* Secale cereale			MG	
Sporobolus virginicus			Y, F, 91	
Spinifex longifolius			91	
* Stenotaphrum secundatum			Ba, Bo, T, MG	
Stipa compressa			Ba, T, Y, F	
Stipa flavescens			Ba, T, Y, 91	
Stipa semibarbata			Ba, T	
Stipa variabilis			Ba, T	
* Vulpia bromoides			Ba, T, F	
* Vulpia myuros			Ba, F, 91	
Polygalaceae				
Comesperma calymega			Ba, M, T, F	

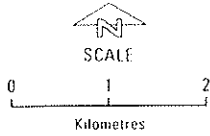
Taxon	Prio Code	Geographic Range	Recorded Areas	44
<i>Comesperma confertum</i>			F, 91	
<i>Comesperma flavum</i>			Ba	
<i>Comesperma virgatum</i>			Ba, M, T	
Polygonaceae				
* <i>Emex austrilis</i>			MG, Ma	
<i>Muehlenbeckia polybotrya</i>			Ba, T	
* <i>Polygonum aviculare</i>			MG, Ma	
<i>Polygonum salicifolium</i>			Bl, Bo, T	
* <i>Rumex acetosella</i>			Ba, T	
* <i>Rumex crispus</i>			Ba, T	
Portulacaceae				
<i>Calandrinia calyptrata</i>			F	
<i>Calandrinia corrigioloides</i>			Ba, T, F, 91	
<i>Calandrinia granulifera</i>			Ba	
<i>Calandrinia liniflora</i>			Y	
<i>Portulaca oleracea</i>			MG	
Primulaceae				
* <i>Anagallis arvensis</i>			P, Ba, M, T, S	
<i>Samolus junceus</i>			F, 91	
<i>Samolus repens</i>			F, 91	
Proteaceae				
<i>Adenanthos cygnorum</i>			P, Ba, M, T, S	
<i>Adenanthos obovatus</i>			S	
<i>Banksia attenuata</i>			P, Ba, Bo, M, T, S, Y, F, 91	
<i>Banksia grandis</i>			Ba, M, T, Y	
<i>Banksia ilicifolia</i>			P, Ba, Bo, M, T, Y, F	
<i>Banksia littoralis</i>			P, Ba, Bo, M, T, F	
<i>Banksia menziesii</i>			P, Ba, Bo, M, T, S, Y, F, 91	
<i>Conospermum stoechadis</i>			Ba	
<i>Conospermum triplinervium</i>			Ba, T	
<i>Dryandra nivea</i>			Ba, T, S, Y, Ma, F, 91	
<i>Dryandra sessilis</i>			M, T, Y, Ma, F, 91	
<i>Grevillea preissii</i>			Ma, F, 91	
<i>Grevillea vestita</i>			Ba, Y, 91	
<i>Hakea lissocarpa</i>			Ba, S, 91	
<i>Hakea prostrata</i>			Ba, M, T, Y, Ma, F, 91	
<i>Persoonia saccata</i>			P, Ba, T, S, Y	
<i>Petrophile brevifolia</i>			Y	

Taxon	Prio Code	Geographic Range	Recorded Areas	45
<i>Petrophile linearis</i>			P, Ba, M, T, S, Y, F	
<i>Petrophile serruriae</i>			F, 91	
<i>Stirlingia latifolia</i>			P, Ba, M, T, S, Y, F	
<i>Synaphea spinulosa</i>			P, Ba, M, T, S, Y	
<i>Xylomelum occidentale</i>			Ba, M	
Ranunculaceae				
<i>Clematis pubescens</i>			Ba, M, T, Ma	
* <i>Ranunculus muricatus</i>			Ba, M, T	
Restionaceae				
<i>Alexgeorgea nitens</i>			Y	
# <i>Empodisma gracillimum</i>			M	
<i>Hypolaena exsulca</i>			Ba, M, T, F	
<i>Leptocarpus aristatus</i>			P, M, Y	
<i>Leptocarpus coangustatus</i>			F	
<i>Leptocarpus scariosus</i>			Ba	
<i>Lepyrodia muirii</i>			Ba, T	
<i>Loxocarya flexuosa</i>			M, S, Y, F, 91	
<i>Loxocarya pubescens</i>			Ba, T, S	
<i>Lyginia barbata</i>			P, M, T, S, Y	
<i>Restio stenostachyus</i>			Ba, T	
Rhamnaceae				
<i>Cryptandra mutila</i>			F, 91	
<i>Spyridium globulosum</i>			Ma, 91	
Rubiaceae				
* <i>Galium aparine</i>			F, 91	
* <i>Galium murale</i>			F	
<i>Opercularia hispidula</i>			Ba, F	
<i>Opercularia vaginata</i>			Ba, M, S, Y, F, Ma	
Rutaceae				
<i>Boronia crenulata</i>			Ba, M, T, F	
<i>Boronia ramosa</i>			M	
<i>Eriostemon spicatus</i>			P, Ba, M, T, S, Y, F	
Salicaceae				
* <i>Salix babylonica</i>			Bl, Bo, MG	
Santalaceae				
<i>Dodonaea aptera</i>			Y	
<i>Dodonaea hackettiana</i>	4	eW	Ba, T, S	
<i>Exocarpos sparteus</i>			Ba, Bo, M, T, S	

Taxon	Prio Code	Geographic Range	Recorded Areas	46
<i>Leptomeria cunninghamii</i>			F	
<i>Leptomeria empetriformis</i>			Ba, T	
<i>Leptomeria spinosa</i>			Ba	
<i>Santalum acuminatum</i>			Ba, 91	
Scrophulariaceae				
* <i>Bellardia trixago</i>			Ba, F	
* <i>Cymbalaria muralis</i>			Ba	
* <i>Dischisma arenarium</i>			Ba, F	
<i>Gratiola peruviana</i>			Ba	
* <i>Parentucellia latifolia</i>			Ba	
* <i>Parentucellia viscosa</i>			Ba, M, F, 91	
* <i>Verbascum virgatum</i>			M, T, 91	
* <i>Veronica arvensis</i>			F	
Solanaceae				
* <i>Nicotiana glauca</i>			Y, MG, 91	
* <i>Solanum nigrum</i>			Ba, T, S, MG, 91	
<i>Solanum symonii</i>			Y, MG, 91	
Stackhousiaceae				
<i>Stackhousia monogyna</i>			P, Ba, MG	
Sterculiaceae				
<i>Thomasia cognata</i>			F, 91	
Stylidiaceae				
<i>Levenhookia pusilla</i>			F	
<i>Levenhookia stipitata</i>			Ba, M, F	
<i>Stylidium brunonianum</i>			P, Ba, M, T, Y	
<i>Stylidium bulbiferum</i>			F, 91	
<i>Stylidium calcaratum</i>			Ba, M	
<i>Stylidium junceum</i>			P, Ba, T	
<i>Stylidium piliferum</i>			Ba, M, T, S, F	
<i>Stylidium repens</i>			Ba, M, T, F	
<i>Stylidium schoenoides</i>			Ba, M, T, Y, F	
Thymelaeaceae				
<i>Pimelea angustifolia</i>			Ba, M, T	
<i>Pimelea calcicola</i>			Ma, F, 91	
<i>Pimelea rosea</i>			P, Bo, M, T, S, Y, F	
<i>Pimelea sulphurea</i>			M, Y, F	
Tropaeolaceae				
* <i>Tropaeolum majus</i>			Y	

Taxon	Prio Code	Geographic Range	Recorded Areas	47
Tremandraceae				
Platytheca galioides			Ba, M, T	
Typhaceae				
Typha domingensis			Ba, T, S	
* Typha orientalis			Y, MG	
Urticaceae				
Parietaria debilis			91	
Verbenaceae				
* Lantana camera			Y	
Violaceae				
Hybanthus calycinus			P, Ba, M, T, S, Y, F, 91	
Vitaceae				
* Vitus vinifera			MG	
Xanthorrhoeaceae				
Xanthorrhoea brunonis			S	
Xanthorrhoea preissii			P, Ba, Bo, M, T, S, Ma, MG, F	
Zamiaceae				
Macrozamia riedlei			Ba, Bo, M, S, Y, F, 91	
Zygophyllaceae				
Zygophyllum fruticosum	S	Port Kennedy	91	
* Tribulus terrestris			MG	

Prepared by the Department of Planning
and Urban Development Perth, Western Australia
March 1990



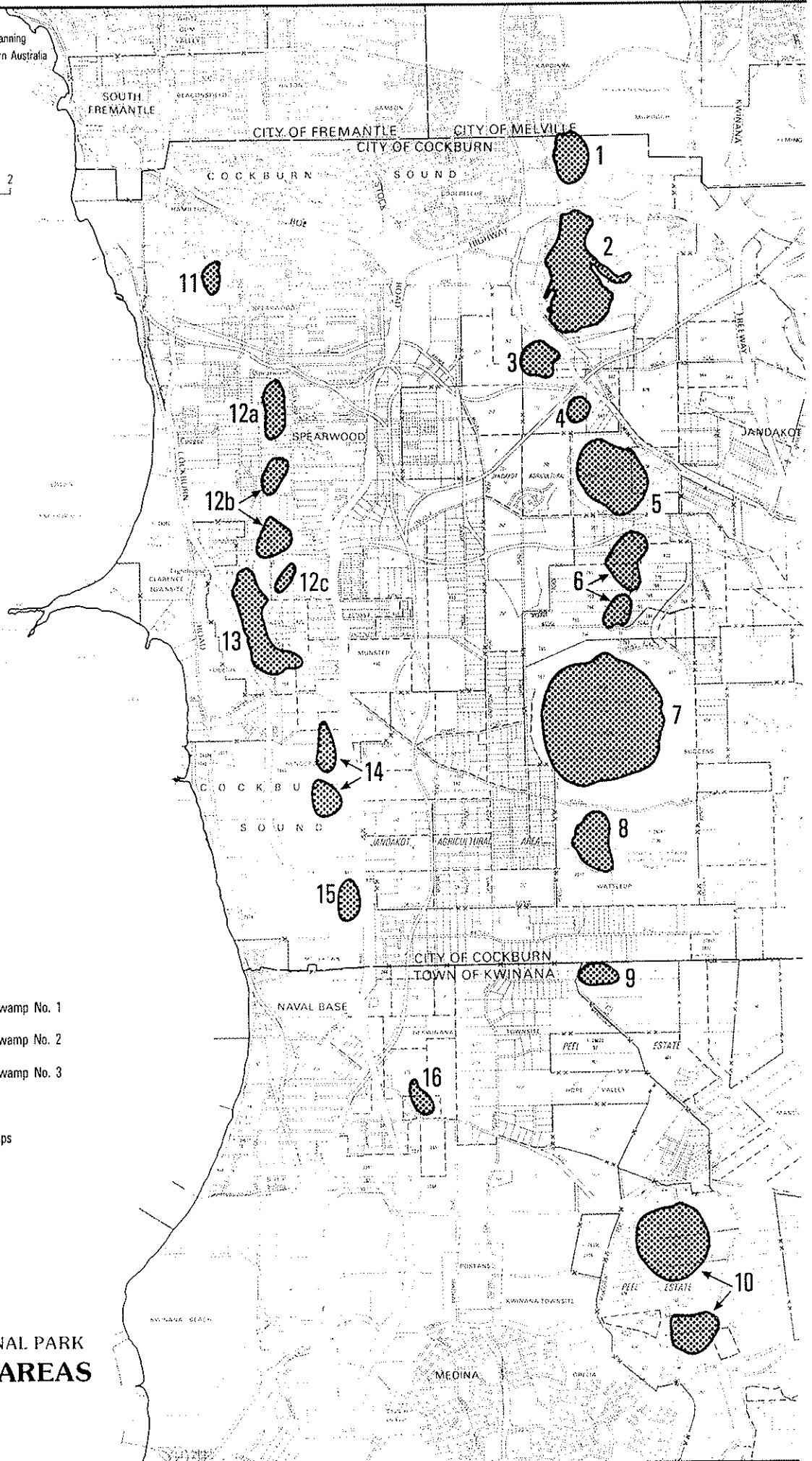
LEGEND



Wetland areas

- 1 North Lake
- 2 Bibra Lake
- 3 South Lake
- 4 Little Rush Lake
- 5 Yangebup Lake
- 6 Kogolup Lake
- 7 Thomsons Lake
- 8 Banganup Lake
- 9 Wattleup Lake
- 10 The Spectacles
- 11 Manning Lake
- 12a Market Garden Swamp No. 1
- 12b Market Garden Swamp No. 2
- 12c Market Garden Swamp No. 3
- 13 Lake Coogee
- 14 Brownman Swamps
- 15 Lake Mt. Brown
- 16 Long Swamp

BEELIAR REGIONAL PARK
WETLAND AREAS



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A GUIDE TO BIRDS ON HARRY WARING MARSUPIAL
RESERVE AND THOMSON'S LAKE NATURE RESERVE

COMPILED BY

S.J.AMBROSE , P.A.CLAY AND B.T.CLAY

**Full document
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152 species

Spearwood

LAKE BANGANUP

9.11

LAKE BANGANUP

BS392 Harry Waring

9.11.1 GENERAL INFORMATION

LOCAL AUTHORITY: Cockburn City Council

MRS ZONE: Rural

RESERVE NUMBERS: 29241 Vested in Department of Conservation and Land Management

PURPOSE: Marsupial Research

MANAGEMENT: University of Western Australia.

SYSTEM 6 RECOMMENDATION: 193

WAC CLASSIFICATION: LE.f.m.s.c.

WATER RESERVE: West of Jandakot Public Water Supply Area

DRAINAGE: Unaffected at present; but may be affected by urban drainage in future.

9.11.2 PHYSIOGRAPHY AND GEOLOGICAL SETTING

Lake Banganup is the largest of four wetland depressions within the Harry Waring Reserve. It is elliptical in shape with its longest axis orientated north - south and situated slightly west of the interface of the Spearwood Dunes with the Bassendean Dunes.

9.11.3 AREAS

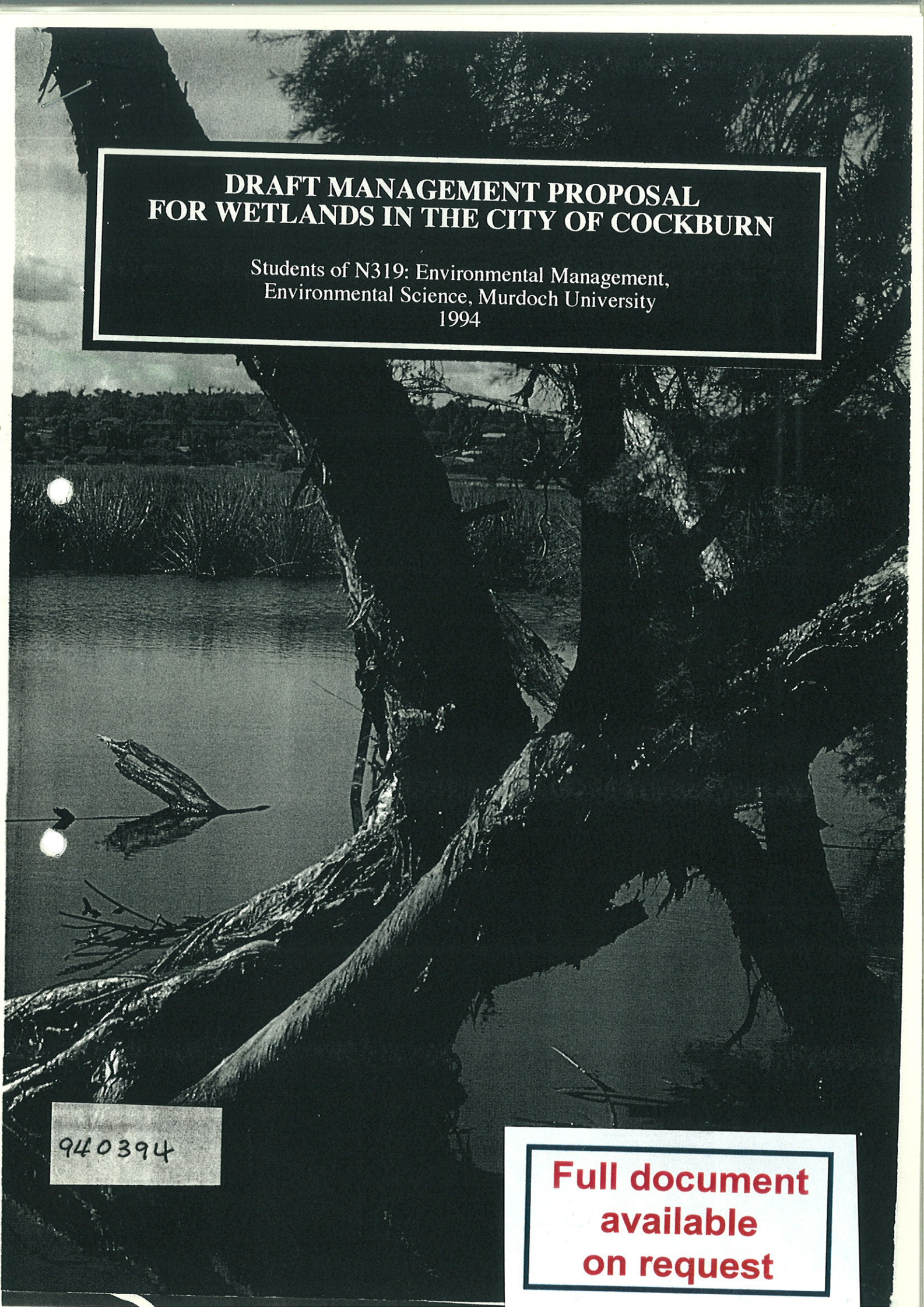
Lake Banganup	37.5 ha
Total area of wetland	11.1 ha
Paperbarks/flooded gums	24.7 ha
Sedgeland	1.7 ha
Open water zone	
Other wetlands in the Banganup Reserve	10.0 ha
Total area of wetland	8.1 ha
Paperbarks/ flooded gums	1.9 ha
Sedgeland	nil
Open water zone	

9.11.4 HYDROLOGY (Figure 5.18)

The water level record for Lake Banganup shows that there has been a fall in both winter maximum and summer minimum water levels since regular records began in 1984.

Minimum levels in the mid 70s were in the same range as maximum levels being recorded 10 years later.

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**DRAFT MANAGEMENT PROPOSAL
FOR WETLANDS IN THE CITY OF COCKBURN**

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Prepared for the Western Australian Planning Commission
by the Ministry for Planning
Albert Facey House
469 Wellington Street
Perth 6000 Western Australia



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