1 LANDSCAPE PLANS 1.1 GROUND FLOOR (1:400)

Proposed ground floor landscape design includes following three key areas: Entry Plaza, Biodiversity Garden and Shade Garden.

Entry Plaza

The Entry Plaza connects Upper Heidelberg Road to the main entrance of the proposed Enterprise Centre, as well as to the senior student campus via a covered corridor, and existing sports courts to the east. It accommodates access for service vehicles to maintain the pool and sports facilities. The proposed brick pavement patterns subtly delineate vehicle access from pedestrian areas. A stepping brick edge serves as seating terrace as well as steps to mitigate level differences. At the plaza's end, a series of gates will be installed to secure the campus when necessary.

Biodiversity Garden

The existing narrow footpaths along the Upper Heidelberg Road will be widened for safety and comfort. Garden beds will be added to the southern side of the footpath creating a biodiversity garden that supports local wildlife, including birds, bees, and butterflies. An Eucalyptus tree (Eucalyptus leucoxylon 'Euky Dwarf') will mark the school's entry point.

Shade Garden

The Shade Garden will accommodate services. including a substation and rainwater treatment tank. Existing pavement will be preserved in this area to protect the Tree Protection Zone (TPZ) of trees in the adjacent Memorial Reserve. Shade-tolerant plants will be incorporated to create green borders throughout the space.

ADVERTISED PLAN

Legend

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TPZ





DRAWING NO:

DRAWING NAME:



2 PLANTING SCHEDULE

2.1 GROUND FLOOR - ENTRY PLAZA

Flowering native species creating the welcoming entry

Flowering native and indigenous species have been chosen for the entry plaza to create a welcoming environment for students, teachers, and visitors.

The plaza has a limited garden space with tree canopy opportunities which are also restricted by maintenance vehicle access clearances (3.5 to 4.3m high vehicle).

A Eucalyptus leucoxylon tree, an indigenous species, has been selected to mark the entrance, and proposed understorey plants include cultivars of indegenous species including Banksia, Correa and Goodenia.

Proposed low shrubs and grass species will subtly define the pedestrian walkways from the maintenance access areas while providing visual and environmental amenity.

*Indigenous species are from the document, 'Vegetation Communities of the City of Banyule (August, 2011)'.

Species	Common Names	Approx. Size at Maturity (H x W)	Plant Origin
GROUND LEVEL - ENTRY PLAZA (Minimum 7	/ plants per m2 spacing)		
TREES	1		1
Eucalyptus leucoxylon 'Euky Dwarf'	Dwarf Yellow Gum	5-6 x 4m	Native
Buckinghamia celcissima	Ivory Curl Flower	5-10 x 4m	Australia/Indigenous to QLD
SHRUBS			
Acacia acinacea	Gold Dust Wattle	1.5 x 1.5m	Native
Baeckia ramossisima	Rosy Baeckea	0.3 x 0.6m	Native
Banksia marginata dwarf ' Mini Marg'	Dwarf Silver Banksia	1.3 x 1.2m	Indigenous (cultivar)
Banksia spinulosa Coastal Cushion	Hairpin Banksia	0.8 x 0.6m	Indigenous (cultivar)
Callistemon subulatus 'Brogo Overflow'	Bottlebrush	1.5 x 2.5m	Native
Correa glabra 'Coliban River'	Coliban River	1.5 x 1.5m	Indigenous (cultivar)
Correa glabra 'Ivory Lantern'	Ivory Lantern	0.6 x 0.6m	Indigenous (cultivar)
Senna artemisioides	silver cassia	1.5 x 1m	Native
GROUNDCOVERS / GRASSES	·	·	•
Brachysome multifida 'Break o Day'	Native Daisy	0.3 x 0.3m	Native
Bulbine bulbosa	Bulbine Lily	0.8 x 0.5m	Indigenous
Calocephalus citreus	Lemon Beauty-heads	0.4 x 0.4m	Indigenous
Chrysocephalum apiculatum	common everlasting	0.7 x 1m	Indigenous
Dianella revoluta "Little Devil"	Tasman Flax Lily	0.3 x 0.3m	Native
Dianella tasmanica	Tasman Flax Lily	0.8 x 0.8m	Indigenous
Goodenia ovata prostrate ' Gold cover'	Hop Goodenia	0.2 x 0.8m	Indigenous (cultivar)

ucalyptus leucoxylon 'Euky Dwarf'



Key plan



Legend

Garden bed - entry plaza

PROJECT: IVANHOE GIRLS' GRAMMAR SCHOOL ENTERPRISE CENTRE

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Dianella tasmanica





Buckinghamia celcissima



Correa glabra 'Coliban River'



Goodenia ovata prostrate ' Gold cover'

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2.2 GROUND FLOOR - BIODIVERSITY GARDEN

Street-front garden as biodiversity garden

A proposed street-front garden provides width of 2 to 3m along the Upper Heidelberg Road. Selected species are to increase biodiversity of the street.

The selection includes tree species of Acacia and Leptospermum, and grass species of Lomandra and Dianella. Some of the selected species are also Bushtucker plants including Lemon Myrtle (Backhousia citriodora), Lemon Scented Tea Tree (Leptospermum petersonii) and River Mint (Mentha australis).

To increase the biodiversity benefit, species are selected to form 4 structural layers which are canopy, medium shrub, grasses and ground layers.

*Indigenous species are from the document, 'Vegetation Communities of the City of Banyule (August, 2011)'.

Key	plan
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Legend

Garden bed - biodiversity garden

PROJECT: IVANHOE GIRLS' GRAMMAR SCHOOL ENTERPRISE CENTRE

Species	Common Names	Approx. Size at Maturity (H x W)	Plant Origin
GROUND LEVEL - BIODIVERSITY GARDEN (Minimu	ım 7 plants per m2 spacing)		•
TREES			
Eucalyptus leucoxylon' Euky Dwarf'	Dwarf Yellow Gum	4 x 2-4m	Indigenous (cultivar
Grevillea hybrida Moonlight	Spider Flower	5 x 3m	Native
Acacia implexa	Lightwood	4-10 x 4-10m	Indigenous
Backhousia citriodora	Lemon Myrtle	5 x m	Native
Leptospermum petersonii	Lemon Scented Tea Tree	5 x 3m	Native
Leptospermum scoparium	Manuka	5 x 3m	Indigenous
SHRUBS	•		•
Grevillea banksii bipinnatifida Ned Kelly	Spider Flower	2-4 x 2-4m	Native
Grevillea obtusifolia Gin Gin Gem	Spider Flower	0.3 x 2-4m	Native
Indigofera australis	Australian Indigo	1 x 1m	Indigenous
Rhagodia candolleana	Seaberry Saltbush	0.15 x 1m	Indigenous
Westringia fruticosa Smokey	Native Rosemary	1 x 1m	Native
GRASSES	-	-	-
Lomandra confertifolia rubiginosa Seascape	Mat Rush	0.5 x 0.75m	Native
Lomandra longifolia Verday	Spiny Head Mat Rush	0.5 x 0.5m	Indigenous
Dianella tasmanica	Tasman Flax Lily	0.6 x 0.6m	Indigenous
Dianella tasmanica Emerald Arch	Tasman Flax Lily	0.3 x 0.3m	Indigenous (cultivar
Dichelachne crinita	Longhair Plume Grass	0.4 x 0.4m	Indigenous
GROUNDCOVERS	1		1
Mentha australis	River Mint	0.3 x 1m	Indigenous
Chrysocephalum apiculatum	Spider Flower	0.7 x 1m	Indigenous
Myoporum parvifolium	Creeping Boobialla	1 x 1m	Native
Viola hederacea	Native Violet	0.15 x 0.6m	Indigenous
Xerochrysum viscosum	Sticky Everlasting	0.6 x 1m	Indigenous



Acacia implexa



Dianella tasmanica 'Emerald Arch'



Lomandra confertifolia rubiginosa Seascape





Backhousia citriodora



Leptospermum petersonii



Xerochrysum viscosum

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2.3 GROUND FLOOR - SHADE GARDEN

Shade garden under large tree canopies of the Memorial Garden

Located adjacent to the Memorial Reserve on the north side, this garden requires some revitalization, including weeding and the introduction of additional shade-loving species. The existing triangular garden bed, which includes a Lagerstroemia indica (to be confirmed by an arborist) and a few shrubs, will be enhanced with new plantings. The proposed selection includes a mix of native and exotic grasses, along with leafy shrubs, designed for low-maintenance and water-efficient garden.

*Indigenous species are from the document, 'Vegetation Communities of the City of Banyule (August, 2011)'.

Species	Common Names	Approx. Size at Maturity (H x W)	Plant Origin
GROUND LEVEL - SHADE GARDEN (Minimum	7 plants per m2 spacing)		
SHRUBS			
Ligularia dentata reniformis	Tractor Seat Plant	1 x 1m	Exotic
Fatsia japonica	Japanese Aralia	3m x 1.5m	Exotic
Acanthus mollis	Oyster Plant	0.6 x 0.6m	Exotic
GRASSES			
Arthropodium cirratum 'Matapouri Bay'	Renga Lily	0.5 x 0.7m	Exotic
Dianella tasmanica 'Emerald Arch'	Flax Lily	0.5 x 0.5m	Indigenous (cultivar)
Liriope muscari 'Variegata'	Lilyturf	0.35 x 0.35m	Exotic
Plectranthus argentatus	Silver Plectranthus	1 x 1.5m	Exotic
FERNS	-		
Microsorum musifolium	Crocodile Fern	0.6m x 0.6m	Exotic
Phymatosorus diversifolius	Kangaroo Fern	0.3m x 0.8m	Native
Nephrolepis obliterata	Kimberly Queen Fern	lm x lm	Native
GROUNDCOVERS	-		
Viola hederacea	Native violet	Spreading x 0.15m	Native
Scaevola albida 'Super Clusters'	Fan Flower	0.1m x 1m	Native
CLIMBERS	T	-	
Aphanopetalum resinosum	Gum Vine	0.2 m x spreading	Native
muehlenbeckia complexa	Maidenhair Vine	Climbing	Exotic



Acanthus mollis





Scaevola albida 'Super Clusters'

Key plan



Legend

Garden bed - shade garden

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Dianella tasmanica 'Emerald Arch'



Aphanopetalum resinosum



Viola hederacea

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Vegetation Communities of the City of Banyule

by Cam Beardsell

August, 2011

Contents

1 INTRODUCTION	1
2 PHYSICAL ENVIRONMENT	2
2.1 Physiography	2
2.2 Landforms	3
2.3 Climate	6
3 METHODS	6
3.1 Field survey and vegetation mapping	6
4 VEGETATION COMMUNITIES	7
4.1 Banyule Vegetation Community Classification	7
4.2 Vegetation Community Definitions	8
4.3 Vegetation Community Descriptions	10
5 ACKNOWLEDGEMENTS	50
6 REFERENCES	50

Appendix 1 Indigenous species that occur (or are likely to have occurred) in Banyule, their significance and their distribution across vegetation communities

1 INTRODUCTION

The author was commissioned by Banyule City Council to prepare a vegetation community map and accompanying report. The City of Banyule is located 12 km north east of Melbourne and contains 63 sq km. A preliminary survey was conducted to assist in the preparation of a vegetation community classification. This and existing data sets were reviewed to prepare an inventory of plant species for Banyule. The information will assist in the identification of significant species and stands of vegetation and the formulation of appropriate management procedures and revegetation programs by land managers and the general public.

Scope of the Study:

The consultant was required to -

- 1) describe the vegetation communities and sub-communities that occur or have occurred in Banyule. Define their landforms, status, distribution, character species and structure, provide ecological descriptions and identify significant stands.
- 2) prepare a vegetation map of the City of Banyule.
- 3) prepare a descriptive report and plant list to accompany the vegetation map.

This will provide a foundation to a conservation management program for the preservation and enhancement of indigenous vegetation and conservation values of Banyule. Central to this is the protection of streamways and improvement of habitat links to adjacent stands by restoration and revegetation programs.

This report provides a companion flora and vegetation community study to the Sites of Faunal and Habitat Significance of North East Melbourne (NEROC study; Beardsell 1997), which examines the zoological significance of sites in the City of Banyule (NEROC sites 23-28, 31-34, 44 and 45-48). Flora studies by the author in adjacent areas include Yarra Valley Parklands and Plenty Gorge Park.

Summary

The foothills and riverine plains are the most diverse area for native plants and animals in the Greater Melbourne and Port Phillip Catchment. In common with other lowland areas, it has had a high impact from human settlement. This has occurred in every conceivable form. Land clearing, urban housing and industrial development, recreation and service utilities, vermin, weeds and pollution.

Banyule still supports a high diversity of indigenous plants. 438 species (possibly 70% of the original flora) have been confirmed over the last fifteen years (category 1 plants in status column of Appendix 1). Most of these were observed during field work for this study conducted between May 1999 and March 2000. However, 202 species (46%) are known from Banyule only at few locations and in small numbers (e.g. most of the forty or so species of orchids). These species are considered locally rare or threatened and may not survive beyond the short-term unless appropriately managed (category 1 m of Appendix 1).

Up to 201 other species still known from the surrounding district may have been eliminated from Banyule since settlement. Some remain only as re-established populations. Systematic botanical survey will locate a proportion of these species in Banyule. They will most likely include spring ephemerals (e.g. *Hypoxis, Levenhookia*) and others including Veiled Fringe-sedge and Grassy Bindweed, which were located just beyond the municipal boundary.

Banyule now contains less than 10% of its original native vegetation cover. Half of this is degraded and only a tiny proportion is considered intact. All surviving stands of native vegetation are significant in this context. This is particularly so for the reserves with highest indigenous species diversity (Yandell, St Helena and Harry Pottage).

Another point of interest is that 34 of the 39 sub-communities (>87%) recorded for Banyule are considered either endangered or vulnerable in the region. Accordingly, Banyule has (or had) a high proportion of threatened species. Communities best preserved in the City of Banyule include floodplain riparian woodland and riparian shrubland of the Yarra River and seasonal and the wetlands of the Yarra floodplain. High quality remnants occur of box - stringybark woodland in St Helena Flora Reserve and plains grassy woodland (alluvial plains) at Simpson Army Barracks and Harry Pottage Reserve. Communities least preserved include plains grassy woodland (volcanic plains) of the Darebin Valley and gully woodland and valley grassy forest of the St Helena foothills.

2 PHYSICAL ENVIRONMENT

2.1 Physiography

Eight major geological formations occur in the City of Banyule (Geological Survey of Victoria, 1972). In descending age these are:

- Silurian mudstone/siltstone. The Silurian formations are deposition beds from ancient seas which have undergone uplift and erosion phases over the last 150 million years to form the foothills of North East Melbourne. Siltstone is the oldest and lowest stratum of the Silurian formation (446-430 million years old) and typically occurs in proximity to anticlines (upfolds in the earths crust). Weathering has removed the upper Silurian strata, exposing the siltstone stratum. Distribution: north-east section.
- Silurian sandstone/shale. Sandstone is the youngest (upper) strata of the Silurian formation (430-416 million years old). It is related to the presence of synclines (downfolds in the earths crust) which bury the upper Silurian strata, preserving them from erosion. Much of the sandstone strata has been eroded away in the uplifted foothills to the north and east of the City of Banyule. This has exposed the deeper mudstone/siltstone strata. Distribution: all sections except the north-east and the volcanics west of Waterdale Road; notably the central section east of Plenty River and smaller outcrops of the alluvial plains west of Plenty River.
- 3 **Tertiary river sand-plain.** This formed in the early Tertiary Period (Palaeocene Epoch of 65-54 million years ago). A large ancestral stream rising in the Great Dividing Range, deposited alluvium as it meandered across the plain. This was later covered by late Tertiary lava flows. Over the Quaternary Period (last 1.8 million years) the terrain has uplifted. The basalt has been eroded away to expose the underlying Silurian formations and disjunct exposures of river alluvium. The sand-plain consists of broad sand-ridges interspersed with seasonally damp saddles in gully headwaters. Distribution: hill-crests between Greensborough and St Helena.
- 4 Tertiary volcanics. Hill-crest cappings remnant from Greensborough Phase lava flows of the late Tertiary Period. The precise age is uncertain, estimates ranging from the Miocene Epoch (24-5 million years ago) to as late as the Upper Pliocene Epoch (3-1.8 million years ago). The latter being continuous with the Pleistocene flows of the Quaternary volcanics (see below). The flows buried earlier land surfaces (e.g. river alluvium). Over time the basalt decomposed to deep black soils. The land surface has been heavily weathered and all that remains are cappings around the rim of river alluvium deposits. Distribution: Greenhill Road to Diamond Creek Road and between south end of Beales Road and Beale Reserve at St Helena.
- 5 *Tertiary marine sand-crest.* Brighton Group stranded coastal dune system (Red Bluff Sands) from marine transgressions (phases of high sea level) of the Upper Pliocene Epoch.. Distribution: south from Mont Park along Waiora Road to Ivanhoe.
- 6 Quaternary volcanics. These formed from lava flows in the early Quaternary Period (1.8 million to 800 000 years ago during the Pleistocene Epoch). The flows which originated from volcanic cones north of Epping, moved down the Darebin Valley, burying older land surfaces (e.g. Silurian sandstone). In Banyule, the lava flows form the leading edge of the Western Volcanic Plains. They have been subsequently covered by a silt plain derived from eroding higher land surfaces on sedimentary formations to the east. Distribution: Waterdale Road to Darebin Creek and in the north at Bundoora.
- 7 Older Quaternary high level alluvium. Pleistocene Epoch (1.8 million to 10 000 years ago) alluvial escarpments and high terraces of Yarra River and outwash plain-slopes above major tributaries. Deposition from prior courses of the Yarra eroding into the valley develops broad alluvial fans. These are most evident on the neck of meander terraces. Outwash plain-slopes consist of colluvial deposits eroding from higher land surfaces. The alluvium consists of gravel, silt and sand while the colluvium is composed of clay and silt. Distribution: restricted to rivers and major creeks.
- 8 *Newer Quaternary alluvium.* Recent Epoch (last 10 000 years) river and swamp alluvium of the lower terrace and floodplain of Yarra River and Plenty River and valleys of their tributaries. The strongly dissected valleys are being actively entrenched by youthful creeks. This is developing floodplains of depositional clay, coarse and fine grained sands and organic silts. Distribution: widespread along river, creek and gully floodplains.

2.2 Landforms

The City of Banyule occurs on the transition of the Coastal Plains, Western Volcanic Plains and the foothills of the Eastern Uplands physiographic regions. Three physiographic zones have been identified as occurring in the City of Banyule by Beardsell (1997). These are the Yarra Lowland Alluvial Plains, Plenty Lowland Volcanic Plains and Plenty Lowland Hills.

Landform groups have been correlated to vegetation communities. On topographic relationship and floristic composition, landform groups categorise broadly into alluvial plain, volcanic plain, foothill, riverine and wetland. Landforms occur from about 7 m elevation above sea level on the bank of the Yarra at the mouth of Darebin Creek to just over 120 m in the north-east at Greenhills and St Helena. Vegetation sub-communities and their most intact stand or main occurrence are listed under each landform group.

ALLUVIAL PLAIN

Sedimentary plain-slopes, valleys, creek terraces and sand-crests: the landform has gradients of 0-20° and soils are primarily yellow duplex with grey loam topsoil to medium depth. The marine sand-crest is composed of yellow-red uniform sand. Soils of sheltered plain-slopes and valleys are largely colluvial in origin (conveyed by various means from higher land surfaces). Soils of creek terraces are largely alluvial in origin (conveyed and deposited by streams). In valleys and on terraces, soils sit on an impermeable claypan horizon causing sub-surface waterlogging during winter. Main occurrences are associated with the Yarra Valley and hinterland in south-west Banyule.

Vegetation:

Plains Grassy Woodland

PGWOep River Red Gum (exposed plain-slope); Harry Pottage Reserve PGWOsp River Red Gum (sheltered plain-slope); Streeton Views PGWOtv River Red Gum (terrace/valley); Simpson Barracks.

Creeks and drainage lines: watercourses with natural annual flow of 3-9 months. Soils are yellow duplex with fine-textured surface loams. These occur to a depth of 1 m and are partially waterlogged for most of the year in the lower strata. Creeks and drainage lines on the alluvial plains are scattered across southern Banyule west from Plenty River to Ivanhoe.

Vegetation:

Creekline Grassy Woodland

CGWc River Red Gum (creek); lower and middle Banyule Creek

CGWdl River Red Gum (drainage line); upper Banyule Creek at Simpson Barracks.

Hill-crests and exposed hill-slopes: exceeding 30 m elevation above and 150 m distance from streams. Exposed hill-slopes have gradients of 15-30° with aspects from north-east through north to south-west. Soils are shallow stony, brown gradational. *Vegetation:*

Box Woodland

BWlh Yellow Box (lowland hill-crest); Hill crests south west of the Watsonia Drain and the Plenty River

VOLCANIC PLAIN

Quaternary volcanic silt plains: low-lying areas of flat to gentle relief on the leading edge of the Western Volcanic Plains east of Darebin Creek. The silt plains lack stony crests and gilgais occurring on stony plains west of Darebin Creek. Soils on more elevated sections are grey-black duplex containing surface loams derived from nearby volcanic and sedimentary sources. Soils in swales and on the creek terrace are comprised of black uniform clay. These swell and become sticky when wet and crack when dry. The silt plains are restricted to the Darebin Valley along the western boundary of Banyule.

Vegetation:

Plains Grassy Woodland

PGWOvp River Red Gum (volcanic plain); Waterdale Road to Darebin Creek

PGWOvs River Red Gum (volcanic swale/terrace); Darebin Creek valley.

FOOTHILL

Sheltered hill-slopes: gradients are generally 15-30° with aspects from east through south to south-west. Sheltered hill-slopes are localised across northern and central Banyule. Soils are yellow duplex of colluvial origin.

Vegetation:

Herb-rich Foothill Forest

HFFs1 Red Stringybark (sheltered hill-slope); Yandell Reserve.

Creeks, gullies, sheltered valleys and footslopes: gullies contain semi-permanent watercourses with annual flow not exceeding 9 months (those with urban catchments may flow the whole year due to urban runoff). Valleys contain ephemeral watercourses with annual flow not exceeding 3 months. Flow is based on natural rates in normal years. Gullies appinds for the sole of the so

part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright Soils in valleys are yellow duplex. Occurrences of foothill gullies, valleys and footslopes are widespread across northern and southeastern Banyule while foothill creeks are restricted to north-east Banyule.

Vegetation:

Creekline Herb-rich Woodland

CHWfc Manna Gum - Swamp Gum (foothill creek); Karingal Creek

Valley Grassy Forest

VGFsf Long-leaf Box - Candlebark (footslope); Brown's Nature Reserve.

VGFeh Yellow Box (exposed hill-slope) Yandell Reserve.

Hill-crests and exposed hill-slopes: exceeding 30 m elevation above and 150 m distance from streams. Exposed hill-slopes have gradients of 15-30° with aspects from north-east through north to south-west. Soils are shallow stony, brown gradational. Occurrences of hill-crests and exposed hill-slopes are widespread across northern and south-eastern Banyule.

Vegetation:

Box - Stringybark Woodland

BSWhr Red Box (hill-slope); St Helena Flora Reserve

BSWhy Yellow Box (hill-slope); Fitzsimons Lane cutting north of Rosehill Road

Box - Ironbark Forest

BIFsy Melbourne Yellow Gum (hill-crest/spur); Yandell Reserve.

Tertiary volcanic hill-crest cappings: formerly a volcanic landform now placed under foothill due to geological uplifting during the late Tertiary/Quaternary. Soils are black cracking uniform clay. Restricted to the north of Banyule between Diamond Creek Road and St Helena Road.

Vegetation:

Grassy Woodland

GWv Yellow Box - Manna Gum (volcanic hill-crest); Beales Road (south end).

Tertiary river sand-plains: formerly a riverine landform now placed under foothill due to geological uplifting during the late Tertiary/Quaternary. The sand-plain exposures persist on scattered hill-crests and have been broken down by weathering. They would have formerly supported the Grassy Woodland sub-community (GWsy) which occupies the sand-plain at nearby Janefield in the Plenty Gorge. Soils are yellow duplex grey organic sand and clay with gravel, ironstone and basalt cobble conglomerate. Restricted to hill-crests between Greensborough and St Helena.

Vegetation:

Box - Stringybark Woodland

BSWhy Yellow Box (hill-slope); St Katherine's church St Helena.

RIVERINE

River banks: soils of banks are primarily yellow gradational or uniform organic/sandy loam. Restricted to the Yarra floodplain, Plenty River and Darebin Creek

Vegetation: dominant plains elements *Floodplain Riparian Woodland* FRWrm Manna Gum (riverbank); Plenty River FRWrr River Red Gum (riverbank); Yarra River.

River flats and terraces of the alluvial floodplain: the landforms have gradients not exceeding 5° and support young depositional soils of the Yarra/Plenty floodplain. These are variable and often poorly differentiated in profile. They range from well-drained open sand, gravel and organic silt alluviums to poorly drained heavy clays in low-lying sections which are water-logged in winter. Yellow duplex soil (with deep grey loam topsoil) occurs on floodplains and grey/black cracking uniform clay occurs in terrace depressions. *Vegetation:*

Floodplain Riparian Woodland

FRWtm Manna Gum (terrace); Plenty River

FRWtr River Red Gum (terrace); Yarra River

Swamp Scrub

SSf Swamp Paperbark (floodplain); eliminated from Yarra.

Rapids: sedimentary rapids develop at the point of intersection between Yarra River and spurs. The river channel lies tranverse to the strike of bedrock, which is composed of lateral rock-bars of resistant outcrop. A succession of bars deflect the channel into small anabranches between which accumulated sediment and flood debris form vegetated islands. The Darebin Creek follows a major lava flow from north of Epping, cutting a small gorge. Where the creek strikes across the flow, columnar basalt reefs are exposed disrupting the channel into anabranches (forks around the reefs). Some of these are brackish and flow **bhis wpictheloceumints of manade available** tessellated basalt pavements, rock cascades and small waterfalls. Pools form in intervening sections the selecture of enabling **Vegetation:** elements of the foothills (RSsr) and plains (RSvc) **its consideration and review as**

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Riparian Shrubland

RSsr Muttonwood (sedimentary rapids); Yarra upstream of Bonds Road

RSvc Woolly Tea-tree (volcanic creek); Darebin Creek.

Escarpments and cliffs: these landforms occur within 150 m of Yarra River, Plenty River and Darebin Creek. Escarpment gradients are generally 30° to 45° while cliff gradients exceed 45°. Sedimentary cliffs (in association with rapids) occur where the rivers develop an ingrown meander as they intersect a spur. Meanders contain steeply undercut rocky cliff faces below an abrupt spur on the outer (convex) side and a sandy terrace (alluvial fan) below a more gentle (slip-off) spur on the inner (concave) side. Along the Yarra and Plenty upstream at Warrandyte and Janefield, cliffs develop into gorges when flanking the river on both sides. Volcanic cliffs of the Darebin Creek consist of basalt columns. Soils of sheltered escarpments consist of high level alluvium of yellow duplex with grey sandy-loam topsoil. Soils of cliffs are derived from old alluvium and more recent erosion. They vary from skeletal amongst rock-faces to friable brown (sedimentary) or red (volcanic) gradational on earth ledges.

Vegetation: predominant floristic elements are from the plains

Riverine Escarpment Scrub

RESes Golden Wattle - Burgan (exposed sedimentary); Plenty River, Darebin Creek

RESss Burgan - Sweet Bursaria (sheltered sedimentary); Plenty River

RESvc Lightwood - Tree Violet (volcanic); Darebin Creek.

High river terrace fans: the landform has level to gentle gradient. Soils are alluvial in origin and primarily yellow duplex with sandy topsoil. Restricted to the Yarra Valley upstream of Plenty River.

Vegetation:

Grassy Woodland

GWsy Yellow Box (sand-plain); Odyssey House area.

WETLAND

Freshwater meadows: Natural billabongs, swamps, floodplain swales and abandoned channels and artificial surface excavations that are inundated less than 6 months of the year to an average depth not exceeding 0.25 m. Freshwater meadow consists of semi-aquatic vegetation. When billabongs are inundated, freshwater meadow is restricted to mudflats on the fringing banks and in shallow bays. It colonises the entire ground surface as billabongs dry. Soils of floodplain swales and abandoned channels are a mixture of sand, gravel and organic alluviums while those at billabongs are uniform (grey-black) clay which crack when dry.

Vegetation:

Floodway Pond Herbland

FPHbm. Lesser Joyweed - Matted Water-starwort (billabong mudflat); Bolin Billabong

FPHfm. Common Sneezeweed - Creeping Knotweed (freshwater meadow); Banyule Swamp and Main Yarra Trail (MYT) bridge wetland at Montpelier

Plains Grassy Wetland

PGWEme. Veined Swamp Wallaby-grass - Common Spike-sedge (freshwater meadow); MYT wetland at Murundaka and Yaruk Tamboore.

Freshwater marshes and billabongs: shallow freshwater marshes include semi-permanent wetlands inundated 6 to 9 months of the year or permanent wetlands containing an average depth of less than 1 m when full. Deep freshwater marshes are permanent wetlands with average depth exceeding 1 m. Billabongs are bodies of still water periodically linked during flood episodes to the Yarra and other floodplain wetlands. They occur in various stages of separation from early succession with high banks through to late succession with low banks (< 1 m high). Billabongs support areas of deep freshwater marsh, shallow freshwater marsh and mudflats. Soils are peaty and predominantly uniform (grey-black) organic clays. Localised on the Yarra floodplain.

Vegetation:

Plains Sedgy Wetland

PSWEma. Tall Sedge - Hollow Sedge (freshwater marsh); being reconstructed at Yaruk Tamboore.

Floodplain Wetland Aggregate (FWA) contains the following component EVCs:

Aquatic Herbland (AHbs) Common Water Ribbons - Upright Water-milfoil (billabong/swamp); Banyule Swamp.

Aquatic Sedgeland (ASbs) Tall Spike-sedge (billabong/swamp); Banyule Billabong

Submerged Aquatic Herbland (SAHbs) Ribbon-weed – Pondweed (billabong/swamp); Banyule Swamp.

Dwarf Floating Aquatic Herbland (DFAHbs) Azolla - Duckweed (billabong/swamp); Banyule Swamp.

Tall Marsh (TMbs) Common Reed – Cumbungi (billabong/swamp); Banyule Swamp.

Wet Verge Sedgeland (WVSfm) Leafy Flat-sedge - Tassel Sedge (freshwater marsh); Reedy Swamp, Wilson Reserve

Wetland Formation (semi-aquatic and aquatic)

WFeh Common Reed - Cumbungi (emergent herbfield); Banyule Flats

2.3 Climate

The climate is mild with warm summers and cool winters. Rainfall is distributed evenly through autumn, winter and spring while summer normally experiences lower rainfall. January being the driest month (average ca. 50 mm) and October being the wettest month (average ca. 85 mm). Mean annual rainfall is 650-700 mm (Bureau of Meteorology, 1977).

3 METHODS

3.1 Field survey and vegetation mapping

Preliminary field surveys were conducted to locate remnant vegetation and compile lists of indigenous plants. Relevant literature on the vegetation of Banyule was also examined. Particular emphasis was placed on confirming rarer species occurrences and examining previously undocumented sub-communities. Vegetation was correlated to landforms and overlaid onto a 1:10 000 topographic map. Sub-communities were first predictively mapped on the basis of landform, geology, soil type, topography, aspect and altitude. Extensive field proofing was then undertaken to confirm or modify the mapping boundaries.

While shown on the map as precise lines with habitats appearing to fit together neatly. In nature, boundaries between adjacent communities consistently overlap. Narrow strips or pockets of differing sub-communities frequently infiltrate micro-habitats within other communities. These and instances where the original landform and vegetation has been completely modified since settlement (e.g. barrel-drained creeks) were difficult to pick up in the field or map at the above scale. The vegetation codes presented on the legend of the map follow the alphabetical community classification of section 4.1.

4 VEGETATION COMMUNITIES

4.1 Banyule Vegetation Community Classification

The following is the full list of Banyule's vegetation communities and sub-communities and their abbreviations.

Box - Iro	onbark Forest	Grassy V	Voodland	
BIFsy	Melbourne Yellow Gum (hill-crest/spur)	GWsy Yellow Box (sand-plain)		
		GWv	Yellow Box – Manna	a Gum (volcanic hill-crest)
Box - Str	ingybark Woodland			
BSWhr	Red Box (hill-slope)	Herb-ric	h Foothill Forest	
BSWhy	Yellow Box (hill-slope)	HFFsl	Red Stringybark (she	eltered hill-slope)
Box Woo	odland	Plains G	rassy Wetland	
BWlh	Yellow Box (lowland hill-crest)	PGWEme Veined Swamp Wallaby-grass - Common Spike-sedge (freshwater meadow)		
Creeklin	e Grassy Woodland			
CGWc	River Red Gum (creek)	Plains G	rassy Woodland	
CGWdl	River Red Gum (drainage line)	PGWOep	River Red Gum (exp	osed plain-slope)
		PGWOsp	River Red Gum (shel	ltered plain-slope)
Creeklin	e Herb-rich Woodland	PGWOtv	River Red Gum (terra	ace/valley)
CHWdl	Swamp Gum (drainage line)	PGWOvp	River Red Gum (vold	canic plain)
CHWfc	Manna Gum - Swamp Gum (foothill creek)	PGWOvs	River Red Gum (vold	canic swale/terrace)
Floodpla	in Riparian Woodland	Plains Se	edgy Wetland	
FRWrm	Manna Gum (riverbank)	PSWEma Tall Sedge - Hollow sedge (freshwater marsh)		
FRWrr	River Red Gum (riverbank)			
FRWtm	Manna Gum (terrace)	Riverine Escarpment Scrub		
FRWtr	River Red Gum (terrace)	RESes Golden Wattle - Burgan (exposed sedimentary)		
		RESss	Burgan - Sweet Burs	aria (sheltered sedimentary)
Floodpla	in Wetland Aggregate	RESvc	Lightwood - Tree Vie	olet (volcanic cliff)
Aquatic I	Herbland			
AHbs	Water Ribbons (billabong/swamp)	Riparian	Shrubland	
Aquatic	Sedgeland	RSsr	Muttonwood (sedime	entary rapids)
ASbs	Tall Spike-sedge (billabong/swamp).	RSvc	Woolly Tea-tree (vol	canic creek)
Dwarf Fl	loating Aquatic Herbland			
DWAHbs	s Azolla - Duckweed (billabong/swamp)	Swamp S	Scrub	
Floodwag	y Pond Herbland	SSf	Swamp Paperbark (fl	loodplain)
FPMbm	Lesser Joyweed - Matted Water-starwort(billabong mudflat)	Vallev G	rassy Forest	
FPHfm	Lesser Joyweed - Common Sneezeweed - Hairy Willow-	VGFeb	Yellow Box (exposed	d hill-slope)
	herb (freshwater meadow)	VGFsf	Long-leaf Box - Can	dlebark (sheltered footslope)
Submerg	ged Aquatic Herbland		_ong tem box cum	(onenered rootstope)
SAHbs	Ribbon-weed – Pondweed (billabong/swamp)	Wetland	Formation	
Fall Mar	rsh	WFeh	Common Reed – Cur	mbungi (emergent herbfield)
TMbs	Common Reed – Cumbungi (billabong/swamp)		Common Reed Cur	
Wet Ver	ge Sedgeland			
WVSma	Leafy Flat-sedge - Tassel Sedge (freshwater marsh)			This copied document t
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				its consideration

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4.2 Vegetation Community Definitions

The vegetation classification was derived from field survey and analysis and a review of relevant literature. Vegetation communities and sub-communities for regional studies of the Melbourne area have been described by several authors (e.g. Robinson 1992, SGAP 1993 and Cheal *et al.* unpub.). Communities have also been described in local flora studies and management plans for areas including Plenty Gorge Park (Carr *et al.* 1991; Beardsell 1997a), Merri Creek (Frood 1992), Yarra Valley Parklands (Beardsell 1996/1996a/2011) and Warrandyte SP (Beardsell in prep.). Over the last decade, vegetation classification terminology has undergone major revision.

DSE has determined Ecological Vegetation Classes for Victoria and mostly community nomenclature follows the EVC system. Two exceptions are the communities Box - Stringybark woodland and Box Woodland, which are parts within the EVC 22- Grassy Dry Forest but not currently recognised as EVCs by DSE.

This study has modified the fauna habitat classification system defined in the NEROC study (Beardsell 1997). Several additional subcommunities were recognised during field surveys of the City of Banyule. Some are of minor natural occurrence or have been eliminated or reduced to refugial stands by land settlement. A standard methodology for floristic appraisal of sub-communities was followed (e.g. Opie *et al.* 1984) but this has been redefined to correlate with landforms (see section 2.2).

Thirty nine sub-communities within seventeen vegetation communities are recognised as occurring in the City of Banyule (see section 4.1). One or two others potentially present but now apparently eliminated are not included. A description of each sub-community is provided in section 4.3.

The classification was determined by hand-sorting field data into natural groupings. Floristic and structural information was important for determination of communities. Landform and biogeographic (plant and animal) indicator species were important for determination of sub-communities. Plant scientific and common name nomenclature and Victorian conservation status follows NRE (1998) and Walsh & Entwisle (1994-1999). The regional (Greater Melbourne) and local (Banyule) conservation status of plants and vegetation sub-communities has been determined by this author.

Following is a brief discussion on derivation of plant communities in the City of Banyule.

BIF Box - Ironbark Forest (EVC 61): this is comprised of foothills alliances dominated by Red Ironbark and/or Yellow Gum. BIW occurs on stony hill-crests and river spurs. Banyule supports one sub-community dominated by Yellow Gum (BIFhy). This has strong floristic affinity with vegetation of the Brisbane Ranges and north-central Victorian goldfields. The prominence of chenopod shrubs also has floristic affinity with riverine escarpment scrub (RES) which occurs on cliffs in the Plenty Gorge. Understorey is shaped strongly by fire and kangaroo/rabbit grazing regimes.

BSW Box - Stringybark Woodland: lowland community split from upland EVC 22- grassy dry forest. The community occupies hill-top environments across the low rainfall foothills and plains. In Banyule these include exposed hill-slopes (BSWhr/hy) and sheltered hill-slopes (BSWsh). Box - stringybark woodland is the ecological bridge between plains grassy woodland (PGWO) of the lowlands and grassy dry forest of the mountains. It supports a characteristic and diverse orchid assemblage (e.g. spider-orchids). Shrubs are co-dominants with grasses in the ground stratum. The latter (notably Silvertop Wallaby-grass and Grey Tussock-grass) form the clear dominant of grassy dry forest in dry mountain areas. They are most frequent in BSWhr of the Silurian mudstone foothills in the north-east of Banyule.

Shrubs most indicative of the lowlands include Gold-dust Wattle, Hedge Wattle and Golden Wattle. There are also grasses (notably Kangaroo Grass) and a suite of herbs including Scaly Buttons, Pink Bindweed and Spur Velleia of volcanic plains grassland. This in particular for BSWhy on Silurian sandstone in central and south-east Banyule. Box - stringybark woodland also has affinity with riverine escarpment scrub (RES) and Herb-rich Foothill Forest (HFF) of the Yarra and Plenty Gorge.

Bw Box Woodland: lowland community within EVC 22- Grassy Woodland occupying sandstone hill-crests and spurs in river gorges flanking the volcanic and alluvial plains. The Victorian Midlands (goldfields) shrub layer including Gold-dust Wattle, Golden Wattle, Grey Everlasting, Shiny Everlasting, Common Beard-heath and Matted Bush-pea has floristic affinity with box - stringybark woodland (BSW). The prominent grassland layer dominated by Weeping Grass and including eight or more wallaby grass and five spear grass species gives structural and floristic affinity with plains grassy woodland (PGWO). It associates with PGWO on the plains and valley grassy forest (VGF) in the foothills. Box woodland occurs in lower rainfall areas (500-700 mm per annum) than box - stringybark woodland and is highly threatened across Melbourne.

CGW Creekline Grassy Woodland (EVC 68): Banyule supports two sub-communities dominated by River Red Gum. CGWc occurs along semi-permanent creeks of the plains. It is distinguished from CGWdl which occurs along ephemeral drainage lines by containing additional riparian species in common with floodplain riparian woodland (FR WhiThe flicts to auchent for be chatter shipilable of CGW on the plains is comparable to creekline herb-rich woodland (CHW) and valley grassy forest the plains for the fore flicts to auchent for be chatter shipilable of CGW on the volcanic plains and alluvial plains could well be distinct at the sub-community dissible community dissible states and reference of a planning process under the

part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright *FRW Floodplain Riparian Woodland (EVC 56):* stream alliances of the alluvial plains dominated by River Red Gum along Yarra River and Manna Gum along Plenty River. The community is replaced by riparian forest in higher rainfall sections of the foothills and riparian shrubland (RS) on the volcanic plains. Banyule supports four sub-communities of floodplain riparian woodland. Two occur along river banks (FRWrm/rr) and two on river terraces (FRWtm/tr).

FWA Floodplain Wetland Aggregate (EVC 172): this is associated with floodplain riparian woodland and occupies billabongs and swamps on the alluvial plains and is comprised of semi-aquatic to aquatic herbfields in a dynamic equilibrium. Floodplain wetland aggregate is a collective of EVCs covering various vegetation zones in the wet and dry phases of billabongs and swamps associated with riparian floodplains. The zones can vary dramatically depending on environmental conditions (e.g. become absent after extended drought). They re-appear when wetlands remain inundated for an extended period. The different vegetation zones usually occur together but form distinct vegetation strata and provide habitat to differing animal groups.

The components of FWA include aquatic herbland (EVC 653), aquatic sedgeland (EVC 308), dwarf floating aquatic herbland (EVC 949), floodway pond herbland (EVC 810), submerged aquatic herbland (EVC 918), tall marsh (EVC 821) and wet verge sedgeland (EVC 932). As well as character species composition, sub-communities are categorised on landform type and depth/inundation regime (e.g. shallow freshwater marsh or freshwater meadow). FWA is comprised of species that float on or below the water (e.g. azollas, duckweeds and bladderwort - dwarf floating aquatic herbland), species that attach to the substrate, have submerged to floating foliage and flower under water (e.g. eel grass- submerged aquatic herbland), species that attach to the substrate, have floating to emergent foliage with rootstocks tolerant of prolonged dessication (Water-ribbons and Upright Water-milfoil - aquatic herbland), species that attach to the substrate and have fully emergent foliage (Tall Spike-sedge, Giant Rush and Common Reed - aquatic sedgeland & tall marsh) and species that alternate in growth habit (e.g. liverworts).

GW Grassy Woodland (EVC 175): infrequently documented box and gum eucalypt community which occupies high river terrace fans, sand-plains and hill crest cappings of central and north-eastern Victoria. The main occurrence in Greater Melbourne is in the Yarra Valley from Templestowe to Warrandyte Gorge. It also occurs on the Tertiary sand-plain in the southern Plenty Gorge. Two sub-communities occur in Banyule, one occupying alluvial fans at the neck of river meanders of the Yarra, and the other restricted in Banyule to volcanic hill-crest cappings east of the Plenty River near the northern boundary of the municipality.

GW supports transitional vegetation between herb-rich foothill forest (HFF), plains grassy woodland (PGWO) and valley grassy forest (VGF). The prominence of tall shrubs provides structural affinity to grassy low open-forest (characterised by Coast Manna Gum) of coastal sand-plains.

PGWE Plains Grassy Wetland (EVC 125): Grassy-herbaceous shallow seasonal wetlands of lowland plains, characteristically species-rich (at least on verges) when relatively intact. Zones interpreted as representing complexes between Plains Grassy Wetland and several other wetland EVCS are frequently present. Formerly widespread in lowland plains areas.

PGWO Plains Grassy Woodland (EVC 55): It forms a woodland canopy (trees of less than 100/ha) and contains a grassy understorey with dominants including Kangaroo Grass and a suite of other flora and fauna (e.g. parrot) species in common with the plains. There are five sub-communities of plains grassy woodland in Banyule. Three occur on the aluvial plains, one each on exposed plain-slopes (PGWOep), sheltered plain-slopes (PGWOsp) and stream terraces and valleys (PGWOtv). The other two sub-communities occur on the Quaternary volcanic plains. PGWOvp occurs on higher ground of the silt plains east of Darebin Creek while PGWOvs occupies seasonally damp swales and stream terraces. Each sub-community is dominated by River Red Gum. Plains grassy woodland is replaced by valley grassy forest (VGF) and box - stringybark woodland (BSW) in the foothills. The transition from BSW to PGW is determined by decreasing rainfall and elevation (approximately 680 mm and 50 m).

PSWE Plains Sedgy Wetland (EVC 647): this EVC occupies swamps on the alluvial plains and is comprised of semi-aquatic to aquatic herbfields. It occupies shallow freshwater marshes and is dominated by sedges. The only stand in Banyule (Yaruk Tamboore) has been drained and the remnant formation now occupies freshwater meadow (currently being restored to freshwater marsh). The original freshwater meadows at the fringe of the plains sedgy wetland would have supported plains grassy wetland (PGWEfm) dominated by grasses, sedges and rushes. Banyule supports one sub-community of plains sedgy wetland (PSWEma). It occurs on the upper floodplain of the Yarra and would have been connected to the river only in periods of high flood. In sections more frequently inundated on the lower floodplain (e.g. billabongs) and higher rainfall areas (e.g. Middle Yarra), plains sedgy wetland is replaced by wet verge sedgeland (WVSfm).

RES Riverine Escarpment Scrub (EVC 82): Previously included under chenopod rocky open scrub by authors in areas west of Melbourne. Banyule supports two sub-communities restricted to sedimentary formations in lowland river gorges (RESes/ss) and another on basalt stream cliffs of the volcanic plains (RESv). Riverine escarpment scrub contains a higher proportion of scrambling herbs and ferns than adjoining habitats. Many of these species are of narrow or disjunct distribution. RES has affinity with box - stringybark woodland but lacks character hill-crest species (e.g. Black's Goodenia and Common Beard-heath). It supports additional escarpment species (Saloop Saltbush, Cut-leaf Daisy). Disturbed stands are vulnerable to weed invasion. Occupying the cliff-faces of gorges, Riparian Escarpment Scrub grades into Riparian Shrubland in the riparian zone at the foot of the cliff.

RS Riparian Shrubland (EVC 19): the community consists of dense thickets of shrubs, swards the set of s

additional clements from an uptain for ast ub-part which for an uptain for ast Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright characterised by Muttonwood occupies rapids in sedimentary river gorges of the foothills (RSsr). The other characterised by Woolly Tea-tree occurs along streams on the volcanic plains (RSvc).

Ss Swamp Scrub (EVC 53): characterised by Swamp Paperbark on the lower floodplain adjacent to billabongs of the Lower Yarra between Kew and Templestowe. One sub-community occurred in Banyule (SSf), but this has been eliminated. Swamp scrub is usually associated with seasonal wetland (SW) and permanent wetland (PW). These are included under EVC - swamp scrub but are treated separately in this study.

VGF Valley Grassy Forest (EVC 47): this community occupies foothill valleys. There are two sub-communities in Banyule. VGFsf occupies the main valley and adjoining sheltered foot-slopes on the east side of the valley. VGFeh occupies the exposed hillslopes above VGFsf. VGFeh and VGFsf are replaced by River Red Gum plains grassy woodland (PGWOep and PGWOtv respectively) on the lower rainfall alluvial plains at Heidelberg.

Character mountain species of VGF not occurring in PGW include Mountain Clematis, Snow Daisy-bush, Narrow-leaf Peppermint and Messmate. Other differences include absence of several character plains elements (notably riparian species of CGWdl) and the dominant shrub transition from Lightwood and Tree Violet to Burgan and Prickly Tea-tree. Thatch Saw sedge dominates seepages and gullies.

4.3 Vegetation Community Descriptions

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The following pages contain descriptions of the vegetation sub-communities that occur in Banyule.

Pre-European Banyule contained fifteen vegetation communities. These are further subdivided into thirty five sub-communities. Some have been eliminated since land settlement. Several others remain only as isolated trees in residential areas. Sub-communities are described according to vegetation attributes (character species and structure of life strata) and environmental parameters (topography). Further information on vegetation communities can be obtained from section 4.2 while additional species can be determined from Appendix 1. More detailed descriptions of physical and environmental parameters (e.g. landform, soil type) appear in sections 2.1 and 2.2.

The boxes under each sub-community contain a list of character species. These are species usually present in intact or relatively intact stands across the City of Banyule. Species are listed under their respective life forms in alphabetical order. The nominate species for a sub-community is usually in the canopy strata. This is entered in bold/italic type.

Where only partially intact or remnant stands remain, species have been reconstructed from the nearest intact stands in the district surrounding Banyule. The district is defined as areas occurring within 5 km of the municipal boundary. It includes Yarra Bend, Darebin Creek Bundoora Park to Epping, La Trobe University and Gresswell Forest, Plenty Gorge Park, Diamond Valley from Diamond Creek to Hurstbridge, Yarra Valley Parklands and Koonung Creek.

A theoretical percentage cover is listed at the head of each life form and for the substrate. Height of the tree or canopy stratum is also listed (emergent eucalypts listed under the canopy of scrub and shrubland normally exceed this). Height of the canopy stratum of scrub and shrubland formations and understorey strata occupy standardised ranges.

These are canopy/tall shrubs and climbers (2-8 m); low shrubs (ground to 2 m); ferns (with exception of tree-ferns, <2 m); monocots including sedges, lilies and grasses (<1.5 m); dicot herbs including daisies (<1 m). The latter includes "shrubby" species that go through an annual growth and dieback cycle (e.g. fireweeds, etc.). Note that tall shrubs include small trees such as Blackwood which can grow in excess of 8 m (as normally do emergent eucalypts listed under canopy).

The final entry for each sub-community is a listing of the most intact stand/s remaining in Banyule. There are four categories: (a) reference or intact stand; (b) relatively intact stand; (c) partially intact stand; (d) remnant/refugial, degraded or establishing stand. A full methodology of survey and assessment of intactness and other criteria of botanical significance is presented in other studies by the author.

While botanical significance is not assessed in this study, as a rule of thumb, (a) is normally equivalent to state and (b) is regional. Generally, the more intact the stand, the more important it is to conservation. But note that even degraded stands can have at least regional significance when supporting a species that is rare or threatened in Victoria. The above assessments are preliminary and based only on brief visits to a subset of sites in the City of Banyule. A complete assessment along with other criteria of botanical significance is dependent on systematic and intensive, quadrat based surveys.

Sub-communities are placed into six conservation status categories according to their frequency of occurrence in Greater Melbourne (GM). In order of highest to lowest risk these are:

- 1. Critically Endangered: sub-communities that have been eliminated or substantially degraded over their entire natural range in GM. As far as is known, only one but more often no stands remain intact and few stands remain relatively intact. All other remaining stands are largely degraded remnants confined to the lowlands, predominantly in plains grassland/grassy woodland and some riverine and wetland communities. They occupy soils of higher nutrient status or moisture content and have been selectively cleared for settlement and agriculture.
- 2. Endangered: habitats that have been virtually eliminated over their entire natural range in Greater Melbourne (<5% remain intact). Fewer than three intact or relatively intact stands are represented in the biological reserve system of Greater Melbourne. Stands that remain are largely degraded remnants and are primarily confined to the lowland plains, mostly in riverine or grassland/grassy woodland communities. They occupy soils of higher nutrient status and moisture content and have been selectively cleared for settlement and agriculture.
- 3. *Threatened:* habitats that have been eliminated or degraded in over 75% of their natural range in Greater Melbourne (>5% remain intact). At least three intact or relatively intact stands are represented in the biological reserve system of Greater Melbourne.
- 4. *Depleted:* habitats that have been eliminated or degraded in 50% to 75% of their natural range in Greater Melbourne, but usually represented in the biological reserve system.
- 5. Disjunct or naturally rare: habitats naturally separated from their nearest known extensive and intact occurrence by a distance considered to exceed that required for genetic contact, apart from through chance events. Stands are small (usually less than 5 ha and not normally exceeding 50 ha) and often support remnant populations which convey important biogeographic information. Most habitats that are disjunct, while rare, are not threatened. Often the physiographic feature making them rare has preserved them (e.g. cliff-faces in river gorges).
- 6. Secure: habitats still occurring in over 75% of their natural range in Greater Melbourne and contained in substantially intact condition in over 50% of this range. Several are wetland habitats which have been restored or created at artificial waterbodies and are adequately represented in the biological reserve system.

Box - Ironbark Forest (EVC 61) Sub-community: **BIFsy** Melbourne Yellow-gum (hill-crest/spur)

Data: Banyule (Yandell Reserve). District (Memorial Drive Plenty Gorge Park)

TREES (10-15 m tall; 15-20% cover)	
Eucalyptus leucoxylon	Yellow Gum
Eucalyptus macrorhyncha	Red Stringybark
Eucalyptus melliodora	Yellow Box
TALL SHRUBS & CLIMBERS (15-20% cover)	
Acacia implexa	Lightwood
Acacia mearnsii	Black Wattle
Acacia paradoxa	Hedge Wattle
Acacia pycnantha	Golden Wattle
Bursaria spinosa	Sweet Bursaria
Cassinia longifolia	Dogwood
Cassytha melantha	Coarse Dodder-laurel
Clematis microphylla	Small-leaved Clematis
Exocarpos cupressiformis	Cherry Ballart
Hardenbergia violacea	Purple Coral-pea
Kunzea ericoides	Burgan
LOW SHRUBS (5-10% cover)	
Acacia acinacea	Gold-dust Wattle
Astroloma humifusum	Cranberry Heath
Chrysocephalum apiculatum	Common Everlasting
Daviesia leptophylla	Narrow-leaf Bitter-pea
Pimelea curviflora	Curved Rice-flower
Pultenaea pedunculata	Matted Bush-pea
SEDGES, LILIES, RUSHES & GRASSES (20-30% cover)	
Arthropodium strictum	Chocolate Lily
Austrodanthonia spp.	Wallaby Grass
Austrostipa mollis	Supple Spear-grass
Dianella revoluta	Black-anther Flax-lily
Lomandra filiformis	Wattle Mat-rush
HERBS including DAISIES (10-20% cover)	
Brachyscome multifida	Cut-leaf Daisy
Drosera whittakeri	Scented Sundew
Einadia nutans	Nodding Saltbush
Gonocarpus tetragynus	Common Raspwort
Goodenia blackiana	Black's Goodenia
Kennedia prostrata	Running Postman
Lagenophora huegelii	Coarse Bottle-daisy
Leptorhynchos tenuifolius	Wiry Buttons
Stuartina muelleri	Spoon Cudweed
Veronica plebeia	Trailing Speedwell
SUBSTRATE (30-40% cover): bare ground; leaf litter, logs, roo	cks

Conservation status in Greater Melbourne: regionally threatened

Distribution: localised at Greenhills north of Greensborough

Landform: foothill; sandstone hill-crests and exposed hill-slopes

Vegetation: BIFsy has a medium cover of tall shrubs (wattles), climbers and low shrubs (heaths) and an open field layer with ample bare ground and leaf litter. Several species (Yellow Gum, Golden Wattle, Gold-dust Wattle) have biogeographic links with the central goldfields. River spurs in nearby Plenty Gorge Park support an additional alliance of spear-grass and chenopod shrubs (see RESes). BIFsy has floristic affinity (e.g. shrub-peas and orchids) with BSWhr. The stand at Yandell Reserve in absence of grazing/fire has an elevated grass cover.

Most intact stand(s): partially intact at Cairns Street frontage of Yandell Reserve.

Box - Stringybark Woodland			
Sub-community: BSWhr Red Box (hill-slope)	This copied document to be made availabl		
Data: Banyule (St Helena Flora Reserve and Aqueduct Lane)		for the sole purpose of enabling	
TREES (12-15 m tall; 20-30% cover)		its consideration and review as	
Eucalyptus goniocalyx	Long-leaf Box	part of a planning process under the	
Eucalyptus macrorhyncha	Red Stringybark	Planning and Environment Act 1987.	
Eucalyptus polyanthemos	Red Box	The document must not be used for any	
TALL SHRUBS & CLIMBERS (20% cover)		purpose which may breach any	
Acacia mearnsii	Black Wattle	copyright	
Acacia paradoxa	Hedge Wattle		
Acacia pycnantha	Golden Wattle		
Cassinia longifolia	Dogwood		
Exocarpos cupressiformis	Cherry Ballart		
Kunzea ericoides	Burgan		
LOW SHRUBS (10-20% cover)			
Acacia acinacea	Gold-dust Wattle		
Acacia genistifolia	Spreading Wattle		
Acrotriche serrulata	Honey-pots		
Daviesia leptophylla	Narrow-leaf Bitter-pea		
Leucopogon virgatus	Common Beard-heath		
Ozothamnus obcordatus	Grey Everlasting		
SEDGES, LILIES, RUSHES & GRASSES (20-30% cc	over)		
Austrodanthonia spp.	Wallaby Grass		
Dianella revoluta	Black-anther Flax-lily		
Joycea pallida	Silvertop Wallaby-grass		
Lomandra filiformis	Wattle Mat-rush		
Microlaena stipoides	Weeping Grass		
Poa sieberiana var. sieberiana	Grey Tussock-grass		
HERBS including DAISIES (10-20% cover)			
Brunonia australis	Blue Pincushion		
Dichondra repens	Kidney-weed		
Drosera whittakeri	Scented Sundew		
Galium gaudichaudii	Rough Bedstraw		
Gonocarpus tetragynus	Common Raspwort		
Goodenia blackiana	Black's Goodenia		
Helichrysum scorpioides	Button Everlasting		
Hovea linearis	Common Hovea		
Hydrocotyle laxiflora	Stinking Pennywort		
Microseris sp. aff. lanceolata	Foothill Yam-daisy		
Plantago varia	Variable Plantain		
Wahlenbergia gracilis	Sprawling Bluebell		
Viola hederacea	Ivy-leaf Violet		
SUBSTRATE (20-30% cover): leaf litter/moss; logs, bar	e ground		

Conservation status in Greater Melbourne: regionally threatened

Distribution: restricted to north-east Banyule (St Helena Road to Ryans Road)

Landform: foothill; Silurian mudstone hill-crests and upper hill-slopes

Vegetation: BSWhr has an open eucalypt layer, a moderate cover of tall shrubs (notably wattles) and low shrubs (particularly peas) and prominent field layer dominated by flax-lily, wallaby-grasses, Weeping Grass and Blue Pincushion. BSWhr is ecotonal with HFFsI on sheltered mid-slopes. Damp valley elements such as Button Everlasting co-occur with goldfields elements such as Dogwood, Grey Everlasting, Gold-dust Wattle, Golden Wattle and Hedge Wattle (all shared with BIFsy). Rock outcrop species including Narrow Rock-fern and Hoary Sunray also occur in volcanic plains grassland and RESes of river gorges. BSWhr has a diverse ground flora and is critical habitat for the rare Emerald-lip Greenhood.

Most intact stand(s): relatively intact (St Helena Flora Reserve)

Box - Stringybark Woodland Sub-community: **BSWhy** Yellow Box (hill-slope) **Data:** Banyule (St Katherine's St Helena and Fitzsimons Lane cutting)

TREES (10-15 m tall; 15-25% cover)			
Eucalyptus goniocalyx	Long-leaf Box	This copied document to	be made available
Eucalyptus macrorhyncha	Red Stringybark	for the sole purpose	e of enabling
Eucalyptus melliodora	Yellow Box	its consideration an	id review as
TALL SHRUBS & CLIMBERS (10-20% cover)		part of a planning pro	cess under the
Acacia implexa	Lightwood	The decument must not	ment Act 1987.
Acacia mearnsii	Black Wattle	The document must not	broach any
Acacia pycnantha	Golden Wattle	purpose which may	of Dreach any
Bursaria spinosa	Sweet Bursaria	copyrigh	IL
Cassinia longifolia	Dogwood		
Clematis microphylla	Small-leaved Clematis		
Hardenbergia violacea	Purple Coral-pea		
Kunzea ericoides	Burgan		
LOW SHRUBS (10% cover)			
Acacia acinacea	Gold-dust Wattle		
Astroloma humifusum	Cranberry Heath		
Chrysocephalum apiculatum	Common Everlasting		
Daviesia leptophylla	Narrow-leaf Bitter-pea		
Dillwynia cinerascens	Grey Parrot-pea		
Pimelea curviflora	Curved Rice-flower		
Platylobium obtusangulam	Common Flat-pea		
SEDGES, LILIES, RUSHES & GRASSES (40-50% cover)			
Arthropodium strictum	Chocolate Lily		
Austrodanthonia spp.	Wallaby Grass		
Austrostipa spp.	Spear Grass		
Dianella revoluta	Black-anther Flax-lily		
Lomandra nana	Dwarf Mat-rush		
Microlaena stipoides	Weeping Grass		
Themeda triandra	Kangaroo Grass		
Tricoryne elatior	Yellow Rush-lily		
HERBS including DAISIES (10-20% cover)			
Bossiaea prostrata	Creeping Bossiaea		
Gonocarpus tetragynus	Common Raspwort		
Hovea linearis	Common Hovea		
Hydrocotyle laxiflora	Stinking Pennywort		
Oxalis perennans	Grassland Wood-sorrel		
Pimelea humilis	Common Rice-flower		
Velleia paradoxa	Spur Velleia		
SUBSTRATE (10% cover): bare ground; leaf litter, logs			

Conservation status in Greater Melbourne: regionally threatened

Distribution: formerly widespread in central and south-east Banyule (Montmorency)

Landform: foothill; sandstone and Tertiary sand-plain hill-crests and upper hill-slopes

Vegetation: BSWhy has an open tree strata dominated by Yellow Box, medium tall shrub layer of wattles and dense grass layer (affinity PGWOep). BSWhy has affinity with BSWhr in the wattle composition but the grassland plains Kangaroo Grass - Common Everlasting alliance replaces the foothills Silvertop Wallaby-grass - Common Beard-heath alliance. Bordering downslope on the plains is PGWOep while in the foothills is VGFsf (strip dominated by Candlebark and the tall shrubs, Burgan and Hedge Wattle). Red Box is absent apart from the edge of the sand-plain at St Katherine's. BSWhy borders herb-rich grassy woodland (GWv) on the Tertiary volcanics. **Most intact stand(s)**: partially intact (St Katherine's; Fitzsimons Lane).

This copied document to be made available **Box Woodland** for the sole purpose of enabling Sub-community: BWlh Yellow Box (lowland hill-crest). its consideration and review as Data: District (Gresswell Hill and Westerfolds Park) part of a planning process under the **TREES** (12-15 m tall: 15-25% cover) Planning and Environment Act 1987. Eucalyptus blakelyi Blakely's Red Gum The document must not be used for any Long-leaf Box Eucalyptus goniocalyx purpose which may breach any Eucalyptus melliodora Yellow Box copyright Eucalyptus viminalis Manna Gum (ssp. & hybrids) TALL SHRUBS & CLIMBERS (10% cover) Acacia implexa & Acacia mearnsii Lightwood & Black Wattle Acacia melanoxylon & Acacia paradoxa Blackwood & Hedge Wattle Black Sheoke & Drooping Sheoke Allocasuarina littoralis & A. verticillata Banksia marginata (Tree Form) Silver Banksia Bursaria spinosa & Cassinia longifolia Sweet Bursaria & Dogwood Clematis decipiens & Exocarpos cupressiformis Slender Clematis & Cherry Ballart Hardenbergia violacea & Melicytus dentatus Purple Coral-pea & Tree Violet LOW SHRUBS (5-10% cover) Berry Saltbush Atriplex semibaccata Common Everlasting & Clustered Everlasting Chrysocephalum apiculatum & C. semipapposum (FF) Myoporum insulare & Olearia ramulosa ssp. ramulosa Common Boobialla & Twiggy Daisy-bush Pultenaea pedunculata & Rubus parvifolius Matted Bush-pea & Small-leaf Bramble SEDGES, LILIES, RUSHES & GRASSES (40-60% cover) Austrodanthonia spp. & Austrostipa spp. Wallaby Grass & Spear Grass Arthropodium strictum & Bothriochloa macra Chocolate Lily & Red-leg Grass Bulbine bulbosa & Caesia calliantha Bulbine Lily & Blue Grass-lily Black-anther Flax-lily & Matted Flax-lily Dianella admixta & Dianella amoena Dianella perfragrans Arching Flax-lily Elymus scaber Common Wheat-grass Hemarthria uncinata & Lepidosperma gunnii Mat Grass & Slender Sword-sedge Lomandra filiformis & Lomandra nana Wattle Mat-rush & Dwarf Mat-rush Microlaena stipoides & Poa rodwayi Weeping Grass & Velvet Tussock-grass Themeda triandra & Tricorvne elatior Kangaroo Grass & Yellow Rush-lily DICOT HERBS including DAISIES (10-20% cover) Acaena agnipila & Asperula conferta Hairy Sheep's Burr & Common Woodruff Creeping Bossiaea & Pink Bindweed Bossiaea prostrata & Convolvulus angustissimus Sweet Hound's-tongue & Slender Tick-trefoil Cynoglossum suaveolens & Desmodium varians Kidney-weed & Pale Sundew Dichondra repens & Drosera peltata ssp. peltata Einadia nutans & Einadia trigonos Nodding Saltbush & Lax Goosefoot Geranium aff. pallidiflorum & Geranium retrorsum FF Rosella Crane's-bill & Grassland Crane's-bill Variable Glycine & Common Raspwort Glycine tabacina & Gonocarpus tetragynus Leptorhynchos squamatus & Linum marginale Scalv Buttons & Native Flax Oxalis perennans & Oxalis radicosa Grassland Wood-sorrel & Stout-rooted Wd-sorrel Pimelea curviflora & Pimelea humilis Curved Rice-flower & Common Rice-flower Velleia paradoxa & Veronica gracilis Spur Velleia & Slender Speedwell Tufted Bluebell & Sprawling Bluebell Wahlenbergia communis & W. gracilis SUBSTRATE (10% cover): leaf litter/moss.

Conservation Status in Greater Melbourne: critically endangered

Distribution: Hill crests in the South East lowland parts of Banyule.

Landform: foothill; exposed aspects of the Silurian sandstone on the edge of Tertiary volcanics

Vegetation: BWlh contains an open canopy and tall shrub stratum (wattles, Sweet Bursaria and Tree Violet) and a dense field layer of grasses, lilies and ground peas. Livestock grazing has depleted the daisy component. BWlh occurs on hill-crests out-cropping plains grassy woodland.

Most intact stand(s): eliminated from Banyule, nearest relatively intact stands are Gresswell Hill and at Westerfolds Grassland Conservation Area.

Creekline Grassy Woodland (EVC 68) Sub-community: CGWc River Red Gum (creek) Data: Banyule (Banyule Creek composite). District (Kestrel Creek Westerfolds Park)

TREES (15 m tall; 10-20% cover)	
Eucalyptus camaldulensis	River Red Gum
Eucalyptus ovata	Swamp Gum
TALL SHRUBS & CLIMBERS (10% cover)	-
Acacia mearnsii	Black Wattle
Acacia melanoxylon	Blackwood
Gynatrix pulchella	Hemp Bush
Melicytus dentatus	Tree Violet
Melaleuca ericifolia	Swamp Paperbark
SEDGES, LILIES, RUSHES & GRASSES (40-50% cover)	
Agrostis avenacea	Common Blown-grass
Alisma plantago-aquatica	Water Plantain
Bolboschoenus medianus	Marsh Club-sedge
Eleocharis acuta	Common Spike-sedge
Glyceria australis	Australian Sweet-grass
Hemarthria uncinata	Mat Grass
Isolepis cernua	Nodding Club-sedge
Juncus spp.	rushes
Microlaena stipoides	Weeping Grass
Notodanthonia semiannularis	Wetland Wallaby-grass
Phragmites australis	Common Reed
Poa labillardieri	Common Tussock-grass
Potamogeton crispus	Curly Pondweed
Schoenoplectus tabernaemontani	River Club-sedge
Tricoryne elatior	Yellow Rush-lily
Triglochin procerum	Common Water-ribbons (floating narrow leaf variant)
Typha domingensis	Narrow-leaf Cumbungi
HERBS including DAISIES (20-30% cover)	
Acaena novae-zelandiae	Bidgee-widgee
Alternanthera denticulata	Lesser Joyweed
Centella cordifolia	Centella
Centipeda cunninghamii	Common Sneezeweed
Crassula helmsii	Swamp Crassula
Elatine gratioloides	Waterwort
Lobelia anceps	Angled Lobelia
Mentha australis	River Mint
Persicaria decipiens	Slender Knotweed
Rumex bidens	Mud Dock
Senecio minimus	Shrubby Fireweed
Veronica gracilis	Slender Speedwell
SUBSTRATE (10-20% cover): bare ground (creek banks/bed)

Conservation status in Greater Melbourne: regionally threatened

Distribution: creeks of the Yarra Valley downstream from Plenty River

Landform: alluvial plain; non-permanent swampy drainage lines and creeks

Vegetation: CGWc has an open canopy of River Red Gums and a moderate tall shrub layer (Black Wattle, Blackwood and Tree Violet). The field layer above creek banks has elements of bordering PGWOtv (Mat Grass, Slender Speedwell). Semi-aquatics are from floodplain swamps (Marsh Club-sedge, Common Reed, Mud Dock of PGWEme/WFeh) and foothill creeks (Centella of CHWfc). Aquatics at pools (pondweeds, Water-ribbons) have affinity with AHbs. CGWc has poorer sub-surface drainage than CGWdl along upper creeks and supports Swamp Paperbark and additional semi-aquatics (e.g. Common Spike-sedge, Cumbungi, Shrubby Fireweed, Lesser Joyweed). Permanent creeks on the plains (e.g. Koonung Creek) support FRWrr.

Most intact stand(s): partially intact (Banyule Creek below Simpson Barracks).

Creekline Grassy Woodland (EVC 68) Sub-community: CGWdl River Red Gum (drainage line) Data: Banyule (Simpson Barracks). District (Salt Creek in Gresswell Forest)

TREES (15 m tall: 20% cover)		its consideration a	and review as
Fucalyntus camaldulensis	River Red Gum	part of a planning process under the Planning and Environment Act 1987	
Eucalyptus ovata	Swamp Gum		
TALL SHRUBS & CLIMBERS (10-20% cover)	Stramp Sum	The document must n	ot be used for any
Acacia melanoxylon	Blackwood	purpose which ma	y breach any
Clematis microphylla	Small-leaved Clematis	copyrig	sht
Exocarpos cupressiformis	Cherry Ballart		
Melicytus dentatus	Tree Violet		
Ozothamnus ferrugineus	Tree Everlasting		
LOW SHRUBS (5% cover)	The Dyenasting		
Acacia verticillata	Prickly Moses		
Coprosma auadrifida	Prickly Currant-bush		
SEDGES, LILIES, RUSHES & GRASSES (60% cover)			
Agrostis avenacea	Common Blown-grass		
Alisma plantago-aquatica	Water Plantain		
Austrodanthonia duttoniana	Brown-back Wallaby-grass		
Austrodanthonia laevis	Smooth Wallaby-grass		
Carex appressa	Tall Sedge		
Carex ivnx	Tussock Sedge		
Glyceria australis	Australian Sweet-grass		
Isolepis platycarpa	Broad-fruit Club-sedge		
Juncus spp.	rushes		
Lomandra longifolia	Spiny-headed Mat-rush		
Microlaena stipoides	Weeping Grass		
Poa labillardieri	Common Tussock-grass		
HERBS including DAISIES (10% cover)	-		
Acaena novae-zelandiae	Bidgee-widgee		
Centipeda cunninghamii	Common Sneezeweed		
Crassula helmsii	Swamp Crassula		
Drosera peltata ssp. peltata	Pale Sundew		
Epilobium hirtigerum	Hairy Willow-herb		
Geranium inundatum	Naked Crane's-bill		
Haloragis heterophylla	Varied Raspwort		
Lythrum hyssopifolia	Small Loosestrife		
Oxalis exilis	Shady Wood-sorrel		
Persicaria decipiens	Slender Knotweed		
Veronica gracilis	Slender Speedwell		
Wahlenbergia multicaulis	Many-stemmed Bluebell		
SUBSTRATE (5-10% cover): bare ground on banks; leaf litte	er/logs		

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Conservation status in Greater Melbourne: regionally endangered

Distribution: restricted across south between Bonds Road and Darebin Creek

Landform: alluvial plain; ephemeral swampy drainage lines and adjoining alluvial flats in upper reaches of creeks and on river floodplains

Vegetation: CGWdl contains a moderately dense River Red Gum canopy and tall shrub layer dominated by Blackwood. Several riparian species in common with CGWc occupy drainage lines (Water Plantain, Australian Sweet-grass, Slender Knotweed) but other character aquatics and semi-aquatics of CGWc are absent (ferns and tall shrubs including Hemp Bush and Swamp Paperbark). Alluvial flats support dense field layers of Tall Sedge, Tussock Sedge and Common Tussock-grass. This grades into adjoining PGWOtv. Plains seasonal wetland species occupy swales and soaks (Brown-back Wallaby-grass, Varied Raspwort). CGWdl is the plains floristic equivalent of CHWdl in the foothills.

Most intact stand(s): partially intact (upper Banyule Creek at Simpson Barracks).

Creekline Herb-rich Woodland (EVC 164) Sub-community: **CHWdl** Swamp Gum (drainage line)

Data: Banyule (Brown's Nature Reserve). District (Diamond Valley; Beardsell in prep.)

TREES (15-20 m tall; 15-20% cover)		
Eucalyptus melliodora	Yellow Box	
Eucalyptus ovata	Swamp Gum	
Eucalyptus radiata	Narrow-leaf Peppermint	
Eucalyptus viminalis	Manna Gum	
TALL SHRUBS & CLIMBERS (20-30% cover)		
Acacia mearnsii	Black Wattle	
Acacia melanoxylon	Blackwood	
Bursaria spinosa	Sweet Bursaria	
Kunzea ericoides	Burgan	
Ozothamnus ferrugineus	Tree Everlasting	
LOW SHRUBS (5-10% cover)		
Cassinia aculeata	Common Cassinia	
Goodenia ovata	Hop Goodenia	
FERNS (5-10% cover)		
Adiantum aethiopicum	Common Maiden-hair	
Pteridium esculentum	Austral Bracken	
SEDGES, LILIES, RUSHES & GRASSES (40-50)%	cover)	
Bulbine bulbosa	Bulbine Lily	
Carex appressa	Tall Sedge	
Echinopogon ovatus	Common Hedgehog-grass	
Eleocharis acuta	Common Spike-sedge	
Gahnia radula	Thatch Saw-sedge	
Glyceria australis	Australian Sweet-grass	
Isolepis platycarpa	Broad-fruit Club-sedge	
Juncus spp.	rushes	
Lomandra longifolia	Spiny-headed Mat-rush	
Microlaena stipoides	Weeping Grass	
Poa ensiformis	Sword Tussock-grass	
Poa tenera	Slender Tussock-grass	
Triglochin striatum	Streaked Arrow-grass	
HERBS including DAISIES (10-20% cover)		
Acaena novae-zelandiae	Bidgee-widgee	
Centella cordifolia	Centella	
Crassula helmsii	Swamp Crassula	
Desmodium gunnii	Southern Tick-trefoil	
Geranium potentilloides	Cinquefoil Crane's-bill	
Goodenia elongata	Lanky Goodenia	
Lythrum hyssopifolia	Small Loosestrife	
Veronica gracilis	Slender Speedwell	
SUBSTRATE (5-10% cover): leaf litter/moss; logs		

Conservation status in Greater Melbourne: regionally threatened

Distribution: restricted east of Plenty River and localised around Heidelberg

Landform: foothill; drainage lines, damp gullies and upper reaches of creeks

Vegetation: CHWdl contains an open canopy of eucalypts, a dense sub-canopy of Blackwood and tall shrubs (notably Burgan) and a ground stratum dominated by ferns and shade tolerant herbs (Austral Bear's-ears, Lanky Goodenia). CHWdl occupies moist and fertile sites along tributaries of creeks (supporting CHWfc) and the heads of gullies (supporting CGWdl) running into Plenty River. It is usually flanked by VGFsf but supports additional riparian species (Angled Lobelia, Swamp Crassula) and a higher frequency of ferns and climbers (e.g. Mountain Clematis). The plains equivalent is CGWdl, where River Red Gum replaces Swamp Gum.

Most intact stand(s): partially intact (Brown's Nature Reserve & land to north).

Creekline Herb-rich Woodland (EVC 164) Sub-community: **CHWfc** Manna Gum - Swamp Gum (foothill creek) **Data:** District (compiled from the Diamond Valley; Beardsell in prep.)

Data: District (compiled from the Diamond Valley; Beardsell in prep.)		its consideration and review as	
TREES (15-20 m tall; 15-20% cover)		part of a planning process under the	
Eucalyptus ovata	Swamp Gum	Planning and Environment Act 1987.	
Eucalyptus viminalis	Manna Gum	The document must not be used for any	
TALL SHRUBS & CLIMBERS (20-30% cov	er)	purpose which may breach any	
Acacia dealbata	Silver Wattle	copyright	
Acacia melanoxylon	Blackwood		
Bursaria spinosa	Sweet Bursaria		
Clematis aristata	Mountain Clematis		
Kunzea ericoides	Burgan		
Ozothamnus ferrugineus	Tree Everlasting		
Pomaderris aspera	Hazel Pomaderris		
Prostanthera lasianthos	Victorian Christmas-bush		
LOW SHRUBS (10% cover)			
Acacia verticillata	Prickly Moses		
Cassinia aculeata	Common Cassinia		
Coprosma quadrifida	Prickly Currant-bush		
Goodenia ovata	Hop Goodenia		
Rubus parvifolius	Small-leaf Bramble		
FERNS (10% cover)			
Adiantum aethiopicum	Common Maiden-hair		
Pteridium esculentum	Austral Bracken		
SEDGES, LILIES, RUSHES & GRASSES (3	0-40% cover)		
Carex appressa	Tall Sedge		
Echinopogon ovatus	Common Hedgehog-grass		
Gahnia radula	Thatch Saw-sedge		
Juncus spp.	rushes		
Lomandra longifolia	Spiny-headed Mat-rush		
Poa ensiformis	Sword Tussock-grass		
Poa tenera	Slender Tussock-grass		
HERBS including DAISIES (10-20% cover)			
Acaena novae-zelandiae	Bidgee-widgee		
Centella cordifolia	Centella		
Gratiola peruviana	Austral Brooklime		
Hydrocotyle hirta	Hairy Pennywort		
Lagenophora stipitata	Blue Bottle-daisy		
Lobelia anceps	Angled Lobelia		
Oxalis exilis	Shady Wood-sorrel		
Ranunculus amphitrichus	Small River Buttercup		
Senecio minimus	Shrubby Fireweed		
SUBSTRATE (10-20% cover): rocks/logs; bare ground, water			

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Conservation status in Greater Melbourne: regionally depleted

Distribution: Karingal Creek and Greensborough Creek in the north of Banyule

Landform: foothill; non-permanent creeks

Vegetation: CHWfc contains an open canopy of gums, a prominent tall shrub layer and an open field layer of shade-tolerant ferns, grasses and sedges. Several character floodplain riparian woodland (FRWrr/rm) species extend into CHWfc from downstream (Sword Tussock-grass, Silver Wattle). Mud banks support ferns (Common Maiden-hair) and sedges (Leafy Bog-sedge). Creeks contain chains of pools interspersed with rock bars. Pools support aquatics (Austral Brooklime, Small River Buttercup, Water-ribbons) and are fringed by sphagnum bogs of grasses (Slender Tussock-grass) and herbs (Centella). Tributaries and flanking valleys support CHWdl/VGFsf. CHWfc is the foothills floristic equivalent of CGWc on the plains.

Most intact stand(s): eliminated.

Floodplain Riparian Woodland (EVC 56) Sub-community: FRWrm Manna Gum (riverbank) Data: Banyule (Plenty River Montmorency). District (Plenty Gorge; Beardsell 1997a)		This copied document to be for the sole purpose of	made available enabling
TREES (15-20 m tall; 10-20% cover) Eucalyptus viminalis TALL SHRUBS & CLIMBERS (20-30% cover)	Manna Gum	its consideration and a part of a planning proces Planning and Environme	review as s under the nt Act 1987.
Acacia dealbata	Silver Wattle	The document must not be	used for any
Callistemon sieberi	River Bottlebrush	purpose which may br	each any
Clematis microphylla	Small-leaved Clematis	copyright	
Melicytus dentatus	Tree Violet		
Gynatrix pulchella	Hemp Bush		
Leptospermum lanigerum	Woolly Tea-tree		
Ozothamnus ferrugineus	Tree Everlasting		
LOW SHRUBS (10-20% cover)			
Acacia verticillata	Prickly Moses		
Coprosma quadrifida	Prickly Currant-bush		
Goodenia ovata	Hop Goodenia		
Solanum aviculare	Kangaroo Apple		
FERNS (5% cover)			
Adiantum aethiopicum	Common Maiden-hair		
Pteridium esculentum	Austral Bracken		
SEDGES, LILIES, RUSHES & GRASSES (20-30% cover)			
Agrostis avenacea	Common Blown-grass		
Bolboschoenus medianus	Marsh Club-sedge		
Carex appressa	Tall Sedge		
Carex gaudichaudiana	Fen Sedge		
Juncus spp.	rushes		
Phragmites australis	Common Reed		
Poa ensiformis	Sword Tussock-grass		
Schoenoplectus tabernaemontani	River Club-sedge		
HERBS including DAISIES (20-30% cover)			
Alternanthera denticulata	Lesser Joyweed		
Crassula helmsii	Swamp Crassula		
Lobelia anceps	Angled Lobelia		
Lycopus australis	Australian Gipsywort		
Mentha australis	River Mint		
Persicaria spp.	knotweeds		
Senecio minimus	Shrubby Fireweed		
SUBSTRATE (10% cover): bare ground/riverbank			

Conservation status in Greater Melbourne: regionally threatened

Distribution: Plenty River excluding the lower reaches and a small section of the Yarra for about 500 m downstream from Fitzsimons Lane

Landform: riverine; banks of rivers

Vegetation: FRWrm has an open tree canopy and dense shrub and field layers. Structurally similar to FRWrr, it has some floristic aspects of riparian forest along the Yarra in the foothills of Warrandyte. This includes the Manna Gum canopy and ferns (e.g. Common Raspfern, Ruddy Ground-fern and Rough Tree-fern). In common with streams on the plains, the tall shrub stratum (Silver Wattle, Tree Violet and Woolly Tea-tree) provides the strongest structural component. Semi-aquatics such as Marsh Club-sedge show further floristic affinity to the plains. FRWrm is flanked by FRWtm on adjoining terraces and upper floodplain and grades into RSsr at sedimentary rapids by Westerfolds Park and in the Plenty River.

Most intact stand(s): partially intact along Plenty River below Montmorency Park and Yarra River downstream of Fitzsimons Lane. Nearest intact stand occurs in the Plenty Gorge.

Floodplain Riparian Woodland (EVC 56) Sub-community: **FRWrr** River Red Gum (riverbank) **Data:** Banyule (Yarra River at Main Trail - Westerfolds bridge)

Data: Banyule (Yarra River at Main Trail - Westerfolds bridge)		for the sole purpose of enabling its consideration and review as
TREES (15 m tall; 10-20% cover)		part of a planning process under the
Eucalyptus camaldulensis	River Red Gum	Planning and Environment Act 1987.
TALL SHRUBS & CLIMBERS (20-30% cover)		The document must not be used for any
Acacia dealbata	Silver Wattle	purpose which may breach any
Bursaria spinosa	Sweet Bursaria	copyright
Callistemon sieberi	River Bottlebrush	
Calystegia sepium	Large Bindweed	
Clematis microphylla	Small-leaved Clematis	
Gynatrix pulchella	Hemp Bush	
Melicytus dentatus	Tree Violet	
Kunzea ericoides	Burgan	
Leptospermum lanigerum	Woolly Tea-tree	
Melaleuca ericifolia	Swamp Paperbark	
Ozothamnus ferrugineus	Tree Everlasting	
LOW SHRUBS (5-10% cover)		
Goodenia ovata	Hop Goodenia	
Rubus parvifolius	Small-leaf Bramble	
Solanum aviculare	Kangaroo Apple	
SEDGES, LILIES, RUSHES & GRASSES (30-40% cover))	
Agrostis avenacea	Common Blown-grass	
Juncus spp.	rushes	
Microlaena stipoides	Weeping Grass	
Phragmites australis	Common Reed	
Poa labillardieri	Common Tussock-grass	
HERBS including DAISIES (20-30% cover)		
Acaena novae-zelandiae	Bidgee-widgee	
Alternanthera denticulata	Lesser Joyweed	
Centipeda cunninghamii	Common Sneezeweed	
Crassula helmsii	Swamp Crassula	
Lycopus australis	Australian Gipsywort	
Lythrum hyssopifolia	Small Loosestrife	
Persicaria spp.	knotweeds	
Senecio minimus	Shrubby Fireweed	
SUBSTRATE (10% cover): bare ground/riverbank		

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Conservation status in Greater Melbourne: regionally threatened

Distribution: Yarra River downstream from Westerfolds rapids, lower reaches of Plenty River and Darebin Creek downstream from Heidelberg Road

Landform: riverine; banks of rivers and adjoining sections of major creeks

Vegetation: FRWrr consists of an open canopy of River Red Gums and dense tall shrub and field layers. Dominant shrubs include Silver Wattle, River Bottlebrush, Tree Violet, Burgan and Swamp Paperbark. The field layer grades from semi-aquatic plants (sedges, rushes and knotweeds) on the lower bank to a combination of grasses (Common Tussock-grass and Weeping Grass) and herbs of moist, sheltered environments (Common Maiden-hair and Bidgee-widgee) on the upper bank. The downstream transition in river morphology and vegetation from foothills to alluvial plains occurs at Westerfolds rapids (e.g. River Red Gum for Manna Gum, Common Tussock-grass for Sword Tussock-grass, Tree Violet for Prickly Currant-bush, Woolly Tea-tree for Foothill Tea-tree). FRWrr is ecotonal with FRWtr on the terraces and lower floodplain.

Most intact stand(s): reference stand in Westerfolds Park at Yarra Trail footbridge.

Floodplain Riparian Woodland (EVC 56) Sub-community: FRWtm Manna Gum (terrace) Data: Banyule (Montpelier Billabong). District (Plenty Gorge Park; Beardsell 1997a)		This copied document to be made available for the sole purpose of enabling its consideration and review as	
TREES (15 m tall; 15-20% cover) <i>Eucalyptus viminalis</i> <i>Eucalyptus melliodora</i>	Manna Gum Yellow Box	part of a planning proc Planning and Environm The document must not b	ess under the ent Act 1987. e used for any
TALL SHRUBS & CLIMBERS (10-20% cover)		purpose which may t	reach any
Acacia dealbata	Silver Wattle	copyright	
Acacia melanoxylon	Blackwood		
Bursaria spinosa	Sweet Bursaria		
Clematis microphylla	Small-leaved Clematis		
Gynatrix pulchella	Hemp Bush		
Melicytus dentatus	Tree Violet		
Kunzea ericoides	Burgan		
Ozothamnus ferrugineus	Tree Everlasting		
Pomaderris aspera	Hazel Pomaderris		
LOW SHRUBS (10% cover)			
Acacia verticillata	Prickly Moses		
Dodonaea viscosa ssp. cuneata	Wedge-leaf Hop-bush		
Goodenia ovata	Hop Goodenia		
Olearia lirata	Snow Daisy-bush		
Rubus parvifolius	Small-leaf Bramble		
Sambucus gaudichaudiana	White Elderberry		
SEDGES, LILIES, RUSHES & GRASSES (40-50% cover)			
Carex incomitata	Hillside Sedge		
Carex iynx	Tussock Sedge		
Echinopogon ovatus	Common Hedgehog-grass		
Juncus spp.	rushes		
Lomandra longifolia	Spiny-headed Mat-rush		
Microlaena stipoides	Weeping Grass		
Poa labillardieri	Common Tussock-grass		
HERBS including DAISIES (10-20% cover)			
Acaena novae-zelandiae	Bidgee-widgee		
Centella cordifolia	Centella		
Dichondra repens	Kidney-weed		
Glycine microphylla	Small-leaf Glycine		
Gonocarpus humilis	Shade Raspwort		
Pelargonium australe	Austral Stork's-bill		
Senecio minimus	Shrubby Fireweed		
Veronica plebeia	Trailing Speedwell		
Wahlenbergia gracilis	Sprawling Bluebell		
SUBSTRATE (10-20% cover): logs/leaf litter			J

Conservation status in Greater Melbourne: regionally threatened

Distribution: Plenty River upstream from Banyule Road, Montpelier Billabong and a small section of the Yarra for about 500 m downstream from Fitzsimons Lane

Landform: riverine; low terrace including minor drainage lines and swales of river floodplains

Vegetation: FRWtm contains an open tree stratum of Manna Gums and an understorey of dense grassland (Common Tussock-grass) and shrubland copses (Silver Wattle, Hazel Pomaderris, Tree Violet). Drainage lines support riparian species including rushes, Tree Everlasting and Hemp Bush in common with FRWrm. Terraces support escarpment and cliff species in common with HFFsl and RESes. These include Austral Stork's-bill, Forest Germander and Wedge-leaf Hop-bush. Swales support elements from foothill gullies including Hillside Sedge, Tussock Sedge, Centella, Small-leaf Glycine and Shade Raspwort. **Most intact stand(s)**: partially intact inside horseshoe at Montpelier Billabong.

Floodplain Riparian Woodland (EVC 56) Sub-community: **FRWtr** River Red Gum (terrace) **Data:** Banyule (Yarra terrace south of Montpelier Billabong)

Data: Banyule (Yarra terrace south of Montpelier Billabong)		for the sole purpose of enabling its consideration and review as
TREES (15 m tall; 15-20% cover)		
Eucalyptus camaldulensis	River Red Gum	part of a planning process under the
TALL SHRUBS & CLIMBERS (20-30% cover)		Planning and Environment Act 1987.
Acacia dealbata	Silver Wattle	The document must not be used for any
Acacia melanoxylon	Blackwood	purpose which may breach any
Bursaria spinosa	Sweet Bursaria	copyright
Clematis microphylla	Small-leaved Clematis	
Gynatrix pulchella	Hemp Bush	
Melicytus dentatus	Tree Violet	
Kunzea ericoides	Burgan	
Melaleuca ericifolia	Swamp Paperbark	
Pomaderris aspera	Hazel Pomaderris	
Prostanthera lasianthos	Victorian Christmas-bush	
LOW SHRUBS (5-10% cover)		
Coprosma quadrifida	Prickly Currant-bush	
Goodenia ovata	Hop Goodenia	
Rubus parvifolius	Small-leaf Bramble	
Solanum aviculare	Kangaroo Apple	
FERNS (<5% cover)		
Adiantum aethiopicum	Common Maiden-hair	
Pteridium esculentum	Austral Bracken	
SEDGES, LILIES, RUSHES & GRASSES (40-50% cover)		
Dianella longifolia	Pale Flax-lily	
Lomandra longifolia	Spiny-headed Mat-rush	
Microlaena stipoides	Weeping Grass	
Poa labillardieri	Common Tussock-grass	
Schoenus apogon	Common Bog-sedge	
HERBS including DAISIES (20-30% cover)		
Acaena novae-zelandiae	Bidgee-widgee	
Dichondra repens	Kidney-weed	
Einadia trigonos ssp. trigonos	Lax Goosefoot	
Lycopus australis	Australian Gipsywort	
Oxalis perennans	Grassland Wood-sorrel	
Persicaria prostrata	Creeping Knotweed	
Veronica gracilis	Slender Speedwell	
Urtica incisa	Scrub Nettle	
SUBSTRATE (5-10% cover): logs/leaf litter		

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Conservation status in Greater Melbourne: regionally endangered

Distribution: Yarra River and lower reaches of Plenty River and Darebin Creek

Landform: riverine; low terrace including minor drainage lines and swales of river floodplains

Vegetation: FRWtr contains a dominent tall shrub layer of Tree Everlasting, Victorian Christmas-bush, Hemp Bush, Silver Wattle, Hazel Pomaderris and Tree Violet in common with FRWtr/rr. Drainage lines and swales support elements from neighbouring floodplain seasonal wetlands (FPHfm/PGWEme) and swamps (SSf). These include rushes, Creeping Knotweed, Common Tussock-grass and Swamp Paperbark. Ferns grow in the shade provided by the dense sub-canopy. FRWtr grades into PGWOtv on upper terraces (e.g. Slender Speedwell). The upper boundary approximates the one in 100 year flood level. Clearing/grazing has left most stands with only a scattering of understorey species (Tree Violet, Weeping Grass and Bidgee-widgee), while exotic pasture grasses dominate. Shrub layers in most stands are being replanted.

Most intact stand(s): relatively intact south of Montpelier Billabong.

Floodplain Wetland Aggregate

Aquatic Herbland. AHbs. EVC 653

Definition: Water-ribbons (billabong/swamp).

AQUATIC PLANTS (50% cover)	
Alisma plantago-aquatica	Water Plantain
Amphibromus fluitans	River Swamp Wallaby-grass
Amphibromus nervosus	Veined Swamp Wallaby-grass
Centella cordifolia	Centella
Crassula helmsii & Crassula peduncularis	Swamp Crassula & Purple Crassula
Elatine gratioloides	Waterwort
Eleocharis acuta	Common Spike-sedge
Glyceria australis	Australian Sweet-grass
Hydrocotyle verticillata	Shield Pennywort
Isolepis inundata	Swamp Club-sedge
Juncus holoschoenus	Joint-leaf Rush
Lachnagrostis filiformis	Common Blown-grass
Myriophyllum crispatum	Upright Water-milfoil
Myriophyllum simulans	Amphibious Water-milfoil
Neopaxia australasica	White Purslane
Ottelia ovalifolia	Swamp Lily
Potamogeton cheesemanii	Small-fruit Pondweed
Potamogeton tepperi	Furrowed Pondweed
Ranunculus inundatus	River Buttercup
Rumex bidens	Mud Dock
Triglochin procera (broad erect leaf variant)	Upright Water-ribbons
Villarsia reniformis	Running Marsh-flower
SUBSTRATE (50% cover): water	

Conservation Status in Greater Melbourne: artificial stands disjunct & natural stands endangered

Distribution: scattered at billabongs, swamps and Main Yarra Trail wetlands at Murundaka

Landform: *wetland*; open water at natural and artificial shallow and deep freshwater marshes inundated at least semi-permanently to an average depth exceeding 0.25 m (ranging from permanent in wet years to dry over extended droughts)

Vegetation: permanent to semi-permanent wetland vegetation dominated by aquatic herbs with rootstocks tolerant of dry periods (typically Upright Water-ribbons, Water Plantain, water-milfoils and buttercups) and water-grasses (River Swamp Wallaby-grass and Australian Sweet-grass). AHbs usually occurs in association other EVC members of floodplain wetland aggregate.

Significant flora - VROT: Amphibromus fluitans. Reg Thr: Hydrocotyle verticillata, Juncus prismatocarpus

Stand quality: relatively intact at Reedy and Bailey Billabongs, the Annulus, Warringal Swamp, Banyule Swamp, Banyule Billabong, Main Yarra Trail wetland at Murundaka.

Floodplain Wetland Aggregate		
Aquatic Sedgeland. ASbs. EVC 308		
Definition: Tall Spike-sedge (billabong/swamp).		
AQUATIC PLANTS (50% cover)		
Baumea articulata	Jointed Twig-sedge (to plant Yaruk Tamboore)	
Eleocharis sphacelata	Tall Spike-sedge	
SUBSTRATE (50% cover): water		

Conservation Status in Greater Melbourne: artificial & natural stands disjunct

Distribution: scattered at billabongs.

Landform: *wetland*; open water at natural shallow and deep freshwater marshes that are inundated at least semi-permanently to an average depth exceeding 0.25 m (ranging from permanent in wet years to dry over extended droughts)

Vegetation: very species-poor vegetation dominated by one to two species of robust inundation-tolerant rhizomatous sedges. These typically with septate culms or otherwise including large air-spaces, with vegetative growth extending into virtually permanent water. Usually occurs in association with aquatic herbland.

Significant flora - Reg Thr: Baumea articulata

Stand quality: intact stands at Bailey billabong and Banyule Billabong.

Floodplain Wetland Aggregate Dwarf Floating Aquatic Herbland. DFAHbs. EVC 949

Definition: Azolla - Fringed Heartwort - Common Duckweed (billabong/swamp).		
AQUATIC PLANTS (50% cover)		
Azolla filiculoides	Pacific Azolla	
Azolla pinnata	Ferny Azolla	
Lemma disperma	Common Duckweed	
Riccia duplex	Floating Crystalwort (non-vascular)	
Ricciocarpos natans	Fringed Heartwort (non-vascular)	
Spirodela polyrhiza	Spotted Duckweed	
Wolffia australiana	Tiny Duckweed	
SUBSTRATE (50% cover): water		

Conservation Status in Greater Melbourne: endangered

Distribution: scattered at billabongs, golf course ponds, Banyule Swamp and Warringal Swamp.

Landform: *wetland*; open water at natural shallow and deep freshwater marshes that are inundated at least semi-permanently to an average depth exceeding 0.25 m (ranging from permanent in wet years to dry over extended droughts)

Vegetation: surface layer of dwarf free-floating plants, usually as a component of diverse aquatic systems. Dwarf floating aquatic herbland largely occurs in the wet phase of billabongs and swamps associated with riparian floodplains. It can re-appear after long droughts when wetlands remain inundated for an extended period and can expand over broad areas during ambient periods of inundation. Most stands only support a narrow and often opportunistic component of the billabong assemblage (catergorised as partially intact or establishing). This includes Pacific Azolla and Common Duckweed that are widespread in farm dams (where it sometimes comprises the only life-form present in open water). Raising the water level in 1999 at Banyule Swamp has led to significant vegetation changes. Previously there had been a prominent floating zone composed of ricciocarpos, azolla, duckweed and Yellow Bladderwort. Most other members are naturally rare and appear more selective about physical and environmental parameters (or less tolerant of habitat degradation or nutrification from urban outfalls - notably Thin Duckweed. The azolla may have been reduced by lower water temperatures due to excessive stormwater input. European Carp and raised levels of turbidity/eutrophication have severely reduced the extent of dwarf floating aquatic herbland in billabongs of the Chandler Basin.

Significant flora - Reg Thr: Spirodela polyrhiza

Stand quality: partially intact at billabongs due to lack of inundation during the 1997-2009 drought and carp damage and turbidity/eutrophication when inundated.

Floodplain Wetland Aggregate Floodway Pond Herbland. FPHbm. EVC 810 Definition: Lesser Lowweed - Matted Water-starwort (billabong mudflat)

Definition. Lesser Joyweed - Matted Water-starwort (binabolig i	nuunat).
SEDGES, LILIES, RUSHES & GRASSES (30% cover)	
Carex appressa	Tall Sedge
Fimbristylis velata & Glyceria australis	Veiled Fringe-sedge & Australian Sweet-grass
Isolepis inundata & Isolepis platycarpa	Swamp Club-sedge & Broad-fruit Club-sedge
Juncus spp. & Lachnagrostis filiformis	Rushes & Common Blown-grass
Triglochin procera	Upright Water-ribbons
DICOT HERBS including DAISIES (40% cover)	
Acaena novae-zelandiae	Bidgee-widgee
Alternanthera denticulata	Lesser Joyweed
Asperula subsimplex & Callitriche sonderi	Water Woodruff & Matted Water-starwort
Centipeda minima & Chenopodium pumilio	Spreading Sneezeweed & Clammy Goosefoot
Elatine gratioloides & Epilobium hirtigerum	Waterwort & Hairy Willow-herb
Lycopus australis & Lythrum hyssopifolia	Australian Gipsywort & Small Loosestrife
Myriophyllum crispatum & Neopaxia australasica	Upright Water-milfoil & White Purslane
Persicaria prostrata	Creeping Knotweed
Polygonum plebeium & Pseudognaphalium luteoalbum	Small Knotweed & Jersey Cudweed
Rorippa laciniata	Jagged Bitter-cress
Senecio minimus	Shrubby Fireweed
Stellaria caespitosa & Urtica incisa	Matted Starwort & Scrub Nettle
SUBSTRATE (20-30% cover): <i>bare ground/receding mudflats</i>	

Conservation Status in Greater Melbourne: endangered

Distribution: scattered at billabongs.

Landform: wetland (riverine); billabong mudflats of the Yarra floodplain

Vegetation: FPHbm occupies mud and shallow water on drying floors of floodplain ponds and billabongs and is most extensively developed at billabongs with gently-pitched ends or shallow bays. For a period after billabongs dry, mudflat herbfield covers much of the floor. FPHbm occurs in dynamic equilibrium with aquatic herbland - aquatic sedgeland - dwarf floating aquatic herbland - submerged aquatic herbland - tall marsh determined by depth and period of inundation. Floristics and diversity is variable and occurs in temporary cycles with a distinct zonation. Low carpets of annuals including Veiled Fringe-sedge, Broad-fruit Club-sedge, Matted Water-starwort, Matted Starwort, Waterwort and Small Knotweed colonize the early succession mudflats in shallow water, along with stranded aquatics from AHbs/ASbs/TMbs including Tall Spike-sedge, Giant Rush, River Swamp Wallaby-grass, Common Reed and Upright Water-ribbons.

The annual herbfield chases the receding water and over 12 months the zone transforms into a dense amphibious herbfield (1-2 m high) of knotweeds with Short-fruit Nardoo and Matted Starwort underneath. This zone and several species of the late succession (e.g. Hairy Willow-herb) persists as a terrestrial zone over ensuing dry periods. On the landward side on the high ebb of the water lies an open grassy meadow zone (0.5 m high) of Common Blown-grass, Fireweeds, Lesser Joyweed, Spreading Sneezeweed and Water Woodruff. This is fringed on the lower bank by FRWtr (e.g. Weeping Grass, Hairy Pennywort, Lax Goosefoot and River Mint).

Veiled Fringe-sedge, Matted Water-starwort and Small Knotweed are pioneer annuals of ephemeral inland wetlands (i.e. adapted to colonising bare, drying mud after floods and passing drought cycles as dormant soil-seed). They germinate in the drawdown of receding water and advance over bare mudflats by adventitious roots in cracking mud. They are intolerant of permanent inundation (replaced by AHbs) and yield when dry for extended periods to terrestrial plants of FRWtr. Vegetation succession goes into reverse cycle as the mudflats are bared by waterlogging the terrestrial plants when billabongs commence filling.

Significant flora - VROT: Callitriche sonderi, Fimbristylis velata. Reg Thr: Asperula subsimplex, Marsilea hirsuta (Short-fruit Nardoo), Polygonum plebeium, Rorippa laciniata, Stellaria caespitosa

Stand quality: Relatively intact (Annulus, Banyule Billabong). Partially intact (Streeton Peninsula Swamp & Montpelier Billabong). Reference stand outside of Banyule at northern bay of Bolin Billabong.

Floodplain Wetland Aggregate Floodway Pond Herbland. FPHfm. EVC 810 Definition: Lasser Louward Common Spacewood Hairy Willow both (freshwater mode

Definition: Lesser Joyweed - Common Sneezeweed - Hairy Willow-herb (freshwater meadow).		
SEDGES, LILIES, RUSHES & GRASSES (50-60% cover)		
Amphibromus nervosus	Veined Swamp Wallaby-grass	
aphelia/centrolepis spp.	aphelia/centrolepis spp.	
Austrodanthonia caespitosa & Austrodanthonia laevis	Common/Smooth Wallaby-grass	
Carex appressa & Carex inversa	Tall Sedge & Knob Sedge	
Carex iynx & Carex tereticaulis	Tussock Sedge & Hollow Sedge	
Deyeuxia quadriseta	Reed Bent-grass	
Eleocharis acuta & Eragrostis brownii	Common Spike-sedge & Common Love-grass	
Glyceria australis & Hemarthria uncinata	Australian Sweet-grass & Mat Grass	
Isolepis hookeriana & Isolepis inundata	Grassy Club-sedge & Swamp Club-sedge	
Juncus spp.	rushes	
Lachnagrostis filiformis & Microlaena stipoides	Common Blown-grass & Weeping Grass	
Notodanthonia semiannularis & Poa labillardierei	Wetland Wallaby-grass & Common Tussock-g/ss	
Schoenus apogon	Common Bog-sedge	
DICOT HERBS including DAISIES (30-40% cover)		
Acaena novae-zelandiae	Bidgee-widgee	
Alternanthera denticulata	Lesser Joyweed	
Callitriche brachycarpa & Centella cordifolia	Short Water-starwort & Centella	
Centipeda cunninghamii & Centipeda minima	Common Sneezeweed & Spreading Sneezeweed	
Chenopodium pumilio	Clammy Goosefoot	
Crassula helmsii & Crassula peduncularis	Swamp Crassula & Purple Crassula	
Elatine gratioloides & Epilobium billardierianum	Waterwort & Grey/Robust Willow-herb	
Epilobium hirtigerum	Hairy Willow-herb	
Geranium inundatum	Naked Crane's-bill	
Goodenia humilis & Gratiola pubescens	Swamp Goodenia & Glandular Brooklime	
Hydrocotyle sibthorpioides	Shining Pennywort	
Hypericum gramineum & Hypericum japonicum	Small St John's Wort & Matted St John's Wort	
Isotoma fluviatilis	Swamp Isotome	
Lobelia anceps & Lobelia pedunculata	Angled Lobelia & Matted Pratia	
Lythrum hyssopifolia & Lythrum salicaria	Small Loosestrife & Purple Loosestrife	
Mazus pumilio & Myriophyllum crispatum	Swamp Mazus & Upright Water-milfoil	
Neopaxia australasica & Oxalis perennans	White Purslane & Grassland Wood-sorrel	
Persicaria decipiens & Persicaria prostrata	Slender Knotweed & Creeping Knotweed	
Pseudognaphalium luteoalbum	Jersey Cudweed	
Ranunculus inundatus	River Buttercup	
Senecio minimus & Senecio quadridentatus	Shrubby Fireweed & Cotton Fireweed	
SUBSTRATE (10-20% cover): bare ground/mudflats		
Conservation Status in Greater Melbourne. artificial stands di	signet & natural stands vulnerable	

Conservation Status in Greater Melbourne: artificial stands disjunct & natural stands vulnerable **Distribution:** localised at Main Yarra Trail (MYT) bridge wetlands, Banyule Swamp and Warringal Swamp

Landform: *wetland/riverine*; freshwater meadows in artificial seasonal ponds (mostly) and river terrace swales Vegetation: this sub-community of floodway pond herbland occurs at seasonal or intermittent wetlands along river floodplains. Most stands in the study area (and Yarra Valley) are artificial. It is composed of two seasonal herbfield zones that colonise mudflats over summer as water recedes from winter-spring inundations. The outer infrequently flooded zone consists of grassland (Common Tussock-grass and Common Blown-grass), annuals (aphelia and centrolepis spp.), draw-down colonisers (Lesser Joyweed and Prostrate Knotweed) and matting perennials (Swamp Crassula and Matted Pratia). This zone includes shade and moisture tolerant grasses (e.g. Weeping Grass) and moss-beds under shrubs on higher ground. The inner more frequently inundated and permanently moist zone is dominated by Tall Sedge, rushes, Centella, Shining Pennywort, Swamp Goodenia, Upright Water-milfoil, Glandular Brooklime and water-starworts. FPHfm has affinity with plains grassy wetland (PGWE). There are also several grassland species from plains grassy woodland (e.g. Common Wallabygrass and Grassland Wood-sorrel). Soils are sandy clay rather than peaty. Each stand has differing dominants and many flora species are planted. The stand on the western and northern fringes of Banyule Swamp has been largely replaced by aquatic herbland (AHbs) and tall marsh (TMbs) due to raised water levels preventing the summer draw-down.

Significant flora - VROT: Callitriche brachycarpa. Reg Thr: #Goodenia humilis, #Gratiola pubescens, Juncus vaginatus (Clustered Rush), #Marsilea drummondii. # = planted and naturalised

Rush), #Marsilea drummonau. # = planted and laturalised Stand quality: relatively intact (MYT bridge west wetland); partially intact (eastern swamp at Murundaka). This copied document to be made available

Floodplain Wetland Aggregate Submerged Aquatic Herbland. SAHbs. EVC 918 Definition: Dondwood - Fol Grass (hildborg(swamp))

Definition. Followeed - Let Orass (billabolig/swallp).	
AQUATIC PLANTS (50% cover)	
Ceratophyllum demersum	Common Hornwort
Chara sp.	Stonewort (non-vascular)
Crassula helmsii	Swamp Crassula
Elatine gratioloides	Waterwort
Glossostigma elatinoides	Small Mud-mat
Limosella australis (extinct)	Austral Mudwort
Myriophyllum crispatum	Upright Water-milfoil
Potamogeton crispus	Curly Pondweed
Potamogeton ochreatus	Blunt Pondweed
Ranunculus amphitrichus	Small River Buttercup
Utricularia australis (extinct)	Yellow Bladderwort
Vallisneria americana	Eel Grass
SUBSTRATE (50% cover): water	

Conservation Status in Greater Melbourne: endangered

Distribution: scattered at billabongs, Irvine Rd ponds and at Banyule Swamp

Landform: *wetland*; open water at natural shallow and deep freshwater marshes that are inundated at least semi-permanently to an average depth exceeding 0.25 m (ranging from permanent in wet years to dry over extended droughts)

Vegetation: extensive submerged beds of eel grass and associated herbs in lakes and watercourse ponds. Submerged aquatic wetland can occur in association with other floodplain wetland zones (tall marsh, aquatic herbland and dwarf floating aquatic herbland). Composition varies dramatically depending on environmental conditions (e.g. become absent after extended drought). It can re-appear when wetlands remain inundated for an extended period. European Carp and raised levels of turbidity/eutrophication have virtually eliminated submerged aquatic herbland from billabongs in Banyule and it survives only along creeks and in artificial wetlands. Occurrences of submerged aquatic herbfield in the Yarra have been eliminated by carp and high water turbidity. Raising the water level in 1999 at Banyule Swamp has led to significant vegetation changes. Previously there had been a prominent submerged aquatic wetland zone composed of eel grass and pondweed. These are now absent. Most members are naturally rare and appear more selective about physical and environmental parameters (or less tolerant of habitat degradation or nutrification from urban outfalls).

Significant flora - VROT: Ceratophyllum demersum. Reg Thr: Ranunculus amphitrichus

Stand quality: degraded at all billabongs due to lack of inundation during the 1997-2009 drought and carp damage and turbidity/eutrophication when inundated.

Floodplain Watland Aggregate	
Toll Marsh TMbs EVC 821	
Definition: Club sodge Common Dood Cumbungi Giant Dus	h (hillsbong/gwamp)
A OLIA TIC DI ANTS (500/ aquer)	n (omaoong/swamp).
AQUATIC FLANTS (50% COVER)	Salt Club radeo
Bolboschoenus caldwellii	Salt Club-sedge
Bolboschoenus fluviatilis	River Club-sedge
Bolboschoenus medianus	Marsh Club-sedge
Calystegia sepium	Large Bindweed
Cladium procerum	Leafy Twig-sedge
Juncus ingens	Giant Rush
Juncus species	Rushes
Persicaria decipiens	Slender Knotweed
Persicaria praetermissa	Spotted Knotweed
Phragmites australis	Common Reed
Schoenoplectus tabernaemontanii	River Club-sedge
Triglochin procera	Upright Water-ribbons
Typha domingensis	Narrow-leaf Cumbungi
*Typha latifolia	Great Reedmace
Typha orientalis	Broad-leaf Cumbungi
Urtica incisa	Scrub Nettle
SUBSTRATE (50% cover): water	

Conservation Status in Greater Melbourne: artificial stands disjunct & natural stands vulnerable

Distribution: Banyule Swamp, Warringal Swamp, Main Yarra Trail wetlands and adjacent to Banyule at Trinity Grammar and Carey Grammar.

Landform: *wetland*; open water at shallow and deep freshwater marshes that are inundated at least semi-permanently to an average depth exceeding 0.25 m (ranging from permanent in wet years to dry over extended droughts)

Vegetation: treeless wetland dominated by tall emergent monocots (reeds, sedges or rushes), typically in thick swards varying from monocultures (e.g. Typha-dominated) to relatively species-poor herbfield. Tall marsh occupies deep and shallow freshwater marshes that are permanent or semi-permanent (provided not dry for extended periods). It occurs in isolated stands or in association with aquatic herbland at billabongs and swamps. It is typically a rushland, sedgeland or reedbed - locally closed or in association or fine-scale mosaic with aquatic herbland along floodway billabongs. Raising the water level in 1999 at Banyule Swamp has led to significant vegetation changes. The tall marsh zone dominated by *Bolboschoenus* spp. has greatly expanded. Scrub Nettle and Large Bindweed enter the formation when input from stormwater drains occurs. Tall marsh is usually associated with wet verge sedgeland (WVSfm).

Significant flora - Reg Thr: Bolboschoenus medianus, Cladium procerum & Juncus ingens

Stand quality: relatively intact at Banyule Billabong, Bailey and Reedy Billabongs. Artificial at northern part of Banyule Swamp.

Floodplain Wetland Aggregate Wet Verge Sedgeland. WVSfm. EVC 932 Definition: Tall Sedge - Tassel Sedge - Fen Sedge - Flecked Flat-sedge - Leafy Flat-sedge (freshwater marsh).

FERNS & NON-VASCULARS (5-10% cover) Marsilea drummondii Common Nardoo SEDGES, LILIES, RUSHES & GRASSES (40-50% cover) Water Plantain Alisma plantago-aquatica Carex appressa & Carex fascicularis Tall Sedge & Tassel Sedge Carex gaudichaudiana & Carex tereticaulis Fen Sedge & Hollow Sedge Carex chlorantha Green-top Sedge Cyperus gunnii & Cyperus lucidus Flecked Flat-sedge & Leafy Flat-sedge Eleocharis acuta Common Spike-sedge Australian Sweet-grass *Glyceria australis* Swamp Club-sedge Isolepis inundata Juncus spp. rushes Common Blown-grass Lachnagrostis filiformis Notodanthonia semiannularis Wetland Wallaby-grass Schoenus maschalinus Leafy Bog-sedge Triglochin striata Streaked Arrow-grass **DICOT HERBS including DAISIES** (30-40% cover) Acaena novae-zelandiae Bidgee-widgee Lesser Joyweed Alternanthera denticulata Centella cordifolia Centella Centipeda cunninghamii & Centipeda elatinoides Common Sneezeweed & Elatine Sneezeweed Crassula helmsii & Crassula peduncularis Swamp Crassula & Purple Crassula *Elatine* gratioloides Waterwort Epilobium hirtigerum & Glossostigma elatinoides Hairy Willow-herb & Small Mud-mat Goodenia humilis Swamp Goodenia Hydrocotyle pterocarpa Wing Pennywort Lilaeopsis polyantha Australian Lilaeopsis Lobelia anceps & Lobelia pedunculata Angled Lobelia & Matted Pratia Lythrum hyssopifolia Small Loosestrife Mazus pumilio Swamp Mazus *Myriophyllum crispatum* Upright Water-milfoil Persicaria decipiens Slender Knotweed Ranunculus inundatus **River Buttercup** Rumex bidens Mud Dock Senecio spp. fireweeds/groundsels **SUBSTRATE** (10-20% cover): *water/mudflats*

Conservation Status in Greater Melbourne: artificial stands disjunct & natural occurrences endangered

Distribution: scattered at billabongs, Warringal Swamp, Streeton Peninsula Lagoon and adjacent to Banyule at Trinity Grammar and Carey Grammar

Landform: *wetland/riverine*; shallow freshwater marsh and freshwater meadow at natural and artificial semi-permanent wetlands Vegetation: WVSfm is a tussock sedge wetland composed of three herbfield zones. Above the high water mark there is a freshwater meadow consisting of perennial-matting species tolerant of summer dessication (Matted Pratia, Purple Crassula, Swamp Goodenia and Swamp Mazus) and a scattering of ephemeral herbs characteristic of winter-wet depressions and spring-soaks (aphelia and centrolepis spp.). Shallow water and mudflats support an amphibious herbfield of sedges (Tall Sedge, Tassel Sedge, Leafy Flat-sedge and Common Spikesedge), rushes (Joint-leaf Rush) and water-grasses (amphibromus spp. and Australian Sweet-grass) and a dense cover of seasonally submerged perennial herbs (Common Nardoo, Australian Lilaeopsis, Swamp Crassula, Upright Water-milfoil and River Buttercup). Deeper water supports tall marsh (TMbs) composed of emergent herbfield including Marsh Club-sedge, Common Reed and Narrow-leaf Cumbungi and aquatic herbland (AHbs) including Small-fruit Pondweed and Running Marsh-flower. Wet verge sedgeland is frequently infested by weeds.

Significant flora - VROT: Carex chlorantha, Ranunculus papulentis, Senecio campylocarpus (Floodplain Fireweed; rare). Reg Thr: Cyperus gunnii, Senecio biserratus (Jagged Fireweed) & Senecio squarrosus (Leafy Fireweed)

Stand quality: relatively intact (Reedy Billabong and Bailey Billabong); partially intact (The Annulus, Streeton Peninsula Lagoon, Banyule Billabong & Montpelier Billabong).

Grassy Woodland (EVC 175) Sub-community: GWsy Yellow Box (sand-plain) Date: District (Interfield Planty Gorge Park and above Verre Trail bridge Westerfolds)

Data: District (Janefield Plenty Gorge Park and above Yarra	rail bridge Westerfolds)
TREES (15 m tall; 20-30% cover)	
Eucalyptus camaldulensis	River Red Gum
Eucalyptus aff. viminalis	Hill Manna Gum
Eucalyptus melliodora	Yellow Box
TALL SHRUBS & CLIMBERS (10-20% cover)	
Acacia implexa	Lightwood
Acacia mearnsii	Black Wattle
Acacia paradoxa	Hedge Wattle
Bursaria spinosa	Sweet Bursaria
Clematis microphylla	Small-leaved Clematis
Convolvulus erubescens	Pink Bindweed
Melicytus dentatus	Tree Violet
Kunzea ericoides	Burgan
Ozothamnus ferrugineus	Tree Everlasting
LOW SHRUBS (5-10% cover)	
Astroloma humifusum	Cranberry Heath
Acacia acinacea	Gold-dust Wattle
Cassinia aculeata	Common Cassinia
Rubus parvifolius	Small-leaf Bramble
FERNS (10% cover)	
Pteridium esculentum	Austral Bracken
SEDGES, LILIES, RUSHES & GRASSES (40-50% cover)	
Austrodanthonia spp.	Wallaby Grass
Austrostipa spp.	Spear Grass
Dianella revoluta	Black-anther Flax-lily
Gahnia radula	Thatch Saw-sedge
Lepidosperma laterale	Variable Sword-sedge
Lomandra filiformis	Wattle Mat-rush
Microlaena stipoides	Weeping Grass
Poa spp.	Tussock Grass
Themeda triandra	Kangaroo Grass
Tricoryne elatior	Yellow Rush-lily
HERBS including DAISIES (10-20% cover)	
Acaena agnipila	Hairy Sheep's Burr
Asperula conferta	Common Woodruff
Bossiaea prostrata	Creeping Bossiaea
Dichondra repens	Kidney-weed
Glycine tabacina	Variable Glycine
Gonocarpus tetragynus	Common Raspwort
Pimelea humilis	Common Rice-flower
Veronica plebeia	Trailing Speedwell
SUBSTRATE (10% cover): leaf litter/moss	

Conservation status in Greater Melbourne: regionally threatened/disjunct

Distribution: localised at Odyssey House

Landform: riverine; high level alluvial terrace fans above meanders of the Yarra

Vegetation: GWsy has a medium canopy of Hill Manna Gum and Yellow Box in elevated sites and River Red Gum in low-lying sites. It supports a well developed tall shrub layer of wattles and Burgan, a dense layer of Austral Bracken and diverse field layer dominated by grasses, lilies and peas. GWsy grades into floodplain riparian woodland (FRWtr) on younger terraces nearer the Yarra. It also supports species from escarpments (PGWOsp) and has floristic links with herb-rich and plains grassy woodland (GWv, PGWOtv). **Most intact stand(s)**: remnant (Odyssey House). Nearest is Westerfolds Park.
Grassy Woodland (EVC 175) Sub-community: GWv Yellow Box - Manna Gum (volcanic hill-crest) Data: Banyule (Beales Rd freeway easement). District (Janefield in Plenty Gorge Park)

[TREES (15 m tall; 10-20% cover)	X 1.6D
Eucalyptus goniocalyx	Long-leaf Box
Eucalyptus melliodora	Yellow Box
Eucalyptus ovata	Swamp Gum
Eucalyptus aff. viminalis	Hill Manna Gum
TALL SHRUBS & CLIMBERS (10-20% cover)	
Acacia implexa	Lightwood
Acacia mearnsii	Black Wattle
Acacia melanoxylon	Blackwood
Acacia paradoxa	Hedge Wattle
Bursaria spinosa	Sweet Bursaria
Clematis microphylla	Small-leaved Clematis
Exocarpos cupressiformis	Cherry Ballart
Melicytus dentatus	Tree Violet
SEDGES, LILIES, RUSHES & GRASSES (60-70% cover)	
Arthropodium strictum	Chocolate Lily
Austrodanthonia spp.	Wallaby Grass
Austrostipa rudis	Veined Spear-grass
Carex iynx	Tussock Sedge
Elymus scaber	Common Wheat-grass
Lepidosperma laterale	Variable Sword-sedge
Lomandra filiformis	Wattle Mat-rush
Microlaena stipoides	Weeping Grass
Poa labillardieri	Common Tussock-grass
Schoenus apogon	Common Bog-sedge
Themeda triandra	Kangaroo Grass
Tricoryne elatior	Yellow Rush-lily
HERBS including DAISIES (10-20% cover)	•
Acaena agnipila	Hairy Sheep's Burr
Bossiaea prostrata	Creeping Bossiaea
Dichondra repens	Kidney-weed
Glycine tabacina	Variable Glycine
Gonocarpus tetragynus	Common Raspwort
Hydrocotyle laxiflora	Stinking Pennywort
Opercularia ovata	Broad-leaf Stinkweed
Oxalis perennans	Grassland Wood-sorrel
Pimelea humilis	Common Rice-flower
Senecio quadridentatus	Cotton Fireweed
Solenogyne gunnii	Hairy Solenogyne
Veronica gracilis	Slender Speedwell
SUBSTRATE (10% cover): leaf litter; logs	1
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Conservation status in Greater Melbourne: regionally endangered

Distribution: restricted to Tertiary volcanics at Greenhills and St Helena

Landform: foothill; Tertiary volcanic hill-crest cappings

Vegetation: GWv contains an open tree strata and prominent layer of tall wattles. The dense field layer is dominated by Weeping Grass and Common Tussock-grass. Drooping Sheoke and low shrubs (Gold-dust Wattle, Cranberry Heath and Grey Parrot-pea) have been eliminated. The Tertiary cappings lacked lava outcrops. GWv supports a floristic overlap of the volcanic plains (Hairy Solenogyne, Variable Glycine) and sedimentary hills (Austral Bugle, Fan-leaf Buttercup). It shares a boundary with box - stringybark woodland (BSWhy) on the adjoining Tertiary sand-plain.

Most intact stand(s): partially intact between Beales Rd and Brown's Nature Reserve.

Herb-rich Foothill Forest (EVC 23) Sub-community: HFFsl Red Stringybark (sheltered hill-slope) Data: Banyule (Yandell Reserve). District (composite from Diamond Valley)		This copied docu for the sole
TREES (15 m tall; 20-30% cover) Eucalyptus goniocalyx Eucalyptus macrorhyncha Eucalyptus radiata TALL SHRUBS & CLIMBERS (10-20% cover)	Long-leaf Box Red Stringybark Narrow-leaf Peppermint	part of a plan Planning and The document purpose wh
Acacia mearnsii	Black Wattle	
Acacia melanoxylon	Blackwood	
Bursaria spinosa	Sweet Bursaria	
Clematis microphylla	Small-leaved Clematis	
Exocarpos cupressiformis	Cherry Ballart	
Melicytus dentatus	Tree Violet	
Kunzea ericoides	Burgan	
LOW SHRUBS (5-10% cover)		
Acacia genistifolia	Spreading Wattle	
Cassinia aculeata	Common Cassinia	
Coprosma quadrifida	Prickly Currant-bush	
Correa reflexa	Common Correa	
SEDGES, LILIES, RUSHES & GRASSES (40% cove	r)	
Dianella longifolia	Pale Flax-lily	

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Conservation status in Greater Melbourne: regionally threatened

Distribution: localised across northern and south-east Banyule

Landform: foothill; sheltered hill-slopes

SUBSTRATE (10% cover): litter/logs; moss

HERBS including DAISIES (30% cover)

Elymus scaber Gahnia radula

Poa spp.

Lepidosperma laterale

Lomandra longifolia

Microlaena stipoides

Acaena novae-zelandiae

Helichrysum scorpioides

Hydrocotyle laxiflora

Wahlenbergia stricta

Veronica calycina

Viola hederacea

Oxalis perennans

Senecio spp.

Drosera peltata ssp. auriculata Gonocarpus tetragynus

Tricoryne elatior

Brunonia australis

Dichondra repens

Vegetation: Long-leaf Box and Red Stringybark are the dominant eucalypts joined by Red Box on mudstone at St Helena or Hill Manna Gum on sandstone at Montmorency. The prominent tall shrub layer is dominated by Black Wattle and Burgan. Upper slopes support dry environment species of adjoining hill-crests (e.g. Dogwood). Lower slopes support Narrow-leaf Peppermint and Yellow Box over a prominent layer of herbs adapted to damp, shaded environments (e.g. Blue Pincushion). The downslope border is shared with VGFsf. Species in common include Bulbine Lily, Soft Tussock-grass, Sweet Bursaria and Candlebark. **Most intact stand(s)**: partially intact (Yandell Reserve).

Common Wheat-grass

Variable Sword-sedge

Spiny-headed Mat-rush

Thatch Saw-sedge

Weeping Grass

Tussock Grass

Bidgee-widgee

Kidney-weed Tall Sundew

Blue Pincushion

Common Raspwort

Button Everlasting

Stinking Pennywort

fireweeds/groundsels

Tall Bluebell

Hairy Speedwell

Ivy-leaf Violet

Grassland Wood-sorrel

Yellow Rush-lily

Plains Grassy Wetland (EVC 125) Sub-community: PGWEme Veined Swamp Wallaby-grass - Common Spike-sedge (freshwater meadow)

Data: Banyule (Banyule Swamp & Yaruk Tamboore)			
FERNS & NON-VASCULARS (<5% cover)			
Marsilea hirsuta	Small-fruit Nardoo		
SEDGES, LILIES, RUSHES & GRASSES (50-60% cove	r)		
Amphibromus nervosus	Veined Swamp Wallaby-grass		
Austrodanthonia duttoniana	Brown-back Wallaby-grass		
Austrodanthonia laevis	Smooth Wallaby-grass		
Carex appressa & Carex brownii	Tall Sedge & Stream Sedge		
Carex inversa & Carex tereticaulis	Knob Sedge & Hollow Sedge		
Eleocharis acuta & Eleocharis pusilla	Common Spike-sedge & Small Spike-sedge		
Glyceria australis & Hemarthria uncinata	Australian Sweet-grass & Mat Grass		
Isolepis inundata	Swamp Club-sedge		
Juncus australis & Juncus flavidus	Austral Rush & Yellow Rush		
Juncus holoschoenus & Juncus planifolius	Joint-leaf Rush & Broad-leaf Rush		
Juncus subsecundus & Juncus vaginatus	Finger Rush & Clustered Rush		
Lachnagrostis filiformis & Notodanthonia semiannularis	Common Blown-grass & Wetland Wallaby-grass		
Poa labillardierei	Common/Prickly Blue Tussock-grass		
Triglochin striata	Streaked Arrow-grass		
DICOT HERBS including DAISIES (30-40% cover)			
Acaena novae-zelandiae & Alternanthera denticulata	Bidgee-widgee & Lesser Joyweed		
Callitriche brachycarpa & Calocephalus lacteus	Short Water-starwort & Milky Beauty-heads		
Centella cordifolia & Centipeda cunninghamii	Centella & Common Sneezeweed		
Chenopodium pumilio & Crassula helmsii	Clammy Goosefoot & Swamp Crassula		
Elatine gratioloides	Waterwort		
Epilobium billardierianum & Epilobium hirtigerum	Robust Willow-herb & Hairy Willow-herb		
Eryngium vesiculosum	Prickfoot		
Gratiola peruviana & Gratiola pubescens	Austral Brooklime & Glandular Brooklime		
Haloragis heterophylla	Varied Raspwort		
Helichrysum aff. rutidolepis (Lowland Swamp)	Pale Swamp Everlasting		
Hydrocotyle sibthorpioides & Isotoma fluviatilis	Shining Pennywort & Swamp Isotome		
Lobelia anceps & Lobelia pedunculata	Angled Lobelia & Matted Pratia		
Lythrum hyssopifolia	Small Loosestrife		
Myriophyllum crispatum & Neopaxia australasica	Upright Water-milfoil & White Purslane		
Persicaria decipiens & Persicaria prostrata	Slender Knotweed & Creeping Knotweed		
Plantago gaudichaudii & Pseudognaphalium luteoalbum	Narrow Plantain & Jersey Cudweed		
Ranunculus inundatus & Rumex bidens	River Buttercup & Mud Dock		
Selliera radicans	Shiny Swamp-mat		
SUBSTRATE (10-20% cover): bare ground/mudflats			

Conservation Status in Greater Melbourne: artificial stands disjunct & natural stands endangered

Distribution: localised at Main Yarra Trail wetland at Murundaka (artificial), Yaruk Tamboore and eastern swamp at Murundaka and near Banyule at north-west billabong of Trinity Grammar

Landform: *wetland/riverine*; freshwater meadow around swamps and in swampy drainage lines and seasonally waterlogged depressions along the Yarra floodplain

Vegetation: grass, sedge and rush-dominated seasonal wetland consisting of a grass-dominated outer zone, rush and sedge-dominated central zone and a spike-sedge and septate rush (i.e. with partitioned air-spaces to stand up in shallow water) dominated inner zone. Intact stands are diverse with at least a half dozen species of grasses and daisies present. Dominant species include Veined Swamp Wallaby-grass, Brown-back Wallaby-grass, Australian Sweet-grass, Common Blown-grass and Common Tussock-grass. Other prominent species include Small-fruit Nardoo, Common Spike-sedge, Hollow Sedge, Austral Rush, Broad-leaf Rush, Finger Rush and a number of forbs including Upright Water-milfoil, White Purslane, Small Loosestrife, Slender Knotweed and River Buttercup. The fringing vegetation is plains grassy woodland (PGWOtv). Numerous species are locally extinct.

Significant flora - VROT: Amphibromus fluitans, Callitriche brachycarpa, Helichrysum aff. rutidolepis & Senecio campylocarpus. Reg Thr: Carex brownii, Juncus vaginatus, Marsilea hirsuta (Trinity), Plantago gaudichaudii, Poa labillardierei (prickly blue) & Ranunculus inundatus.

Most intact stand(s): relatively intact (MYT wetland at Murundaka); partially intact Tamboore at Murundaka) (eastern swamp at Murundaka and Yaruk This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any

Plains Grassy Woodland (EVC 55)Sub-community: PGWOep River Red Gum (exposed plain-slope)Data: Banyule (Harry Pottage Reserve, Simpson Barracks, Maroondah aqueduct Bundoora)

TREES (10-15 m tall; 15-25% cover)	
Eucalyptus camaldulensis	River Red Gum
Eucalyptus melliodora	Yellow Box
TALL SHRUBS & CLIMBERS (5-10% cover)	
Acacia implexa	Lightwood
Acacia mearnsii	Black Wattle
Acacia paradoxa	Hedge Wattle
Acacia pycnantha	Golden Wattle
Allocasuarina verticillata	Drooping Sheoke
Cassinia longifolia	Dogwood
Convolvulus erubescens	Pink Bindweed
Kunzea ericoides	Burgan
LOW SHRUBS (<5% cover)	-
Acacia acinacea	Gold-dust Wattle
Astroloma humifusum	Cranberry Heath
Pimelea curviflora	Curved Rice-flower
SEDGES, LILIES, RUSHES & GRASSES (50-60% cover)	
Arthropodium strictum	Chocolate Lily
Austrodanthonia spp.	Wallaby Grass
Austrostipa spp.	Spear Grass
Burchardia umbellata	Milkmaids
Caesia calliantha	Blue Grass-lily
Carex breviculmis	Short-stem Sedge
Dianella revoluta	Black-anther Flax-lily
Dichelachne crinita	Long-hair Plume-grass
Lomandra filiformis	Wattle Mat-rush
Microlaena stipoides	Weeping Grass
Poa sieberiana var. sieberiana	Grey Tussock-grass
Schoenus apogon	Common Bog-sedge
Themeda triandra	Kangaroo Grass
Tricoryne elatior	Yellow Rush-lily
HERBS including DAISIES (20-30% cover)	
Bossiaea prostrata	Creeping Bossiaea
Dichondra repens	Kidney-weed
Gonocarpus tetragynus	Common Raspwort
Leptorhynchos squamatus	Scaly Buttons
Oxalis perennans	Grassland Wood-sorrel
Pimelea humilis	Common Rice-flower
Senecio quadridentatus	Cotton Fireweed
Veronica gracilis	Slender Speedwell
SUBSTRATE (5% cover): logs/leaf litter	

Conservation status in Greater Melbourne: regionally endangered

Distribution: formerly widespread between Plenty River and Darebin Creek

Landform: alluvial plain; exposed upper/middle plain-slopes and marine sand-crests

Vegetation: PGWOep consists of an open canopy of River Red Gums and an open tall shrub layer of Black Wattle and Golden Wattle. The ground layer varies from diverse herbfield (e.g. 3 or 4 Austrostipa spp.) to dense grassland dominated by Kangaroo Grass. Shortstem Sedge and Common Bog-sedge are common in seepage areas. PGWOep is ecotonal with PGWOtv in creek valleys and on high terraces of the Yarra and PGWOsp on adjoining sheltered plain-slopes. PGWOep comes into contact with PGWOvp on the volcanic plains toward Darebin Creek. Introduced pasture grasses (notably Paspalum) threaten PGWOep.

Most intact stand(s): intact (Harry Pottage); relatively intact (Simpson Barracks).

Plains Grassy Woodland (EVC 55) Sub-community: PGWOsp River Red Gum (sheltered plain-slope) Data: Banyule (Simpson Barracks, Streeton Views and Viewbank)

TREES (15 m tall; 25-35% cover)	
Eucalyptus camaldulensis	River Red Gum
Eucalyptus melliodora	Yellow Box
Eucalyptus ovata	Swamp Gum
Eucalyptus X studleyensis	Studley Park Gum
TALL SHRUBS & CLIMBERS (10% cover)	
Acacia implexa	Lightwood
Acacia mearnsii	Black Wattle
Acacia melanoxylon	Blackwood
Bursaria spinosa	Sweet Bursaria
Exocarpos cupressiformis	Cherry Ballart
Melicytus dentatus	Tree Violet
SEDGES, LILIES, RUSHES & GRASSES (60-70% cover)	
Arthropodium strictum	Chocolate Lily
Austrodanthonia racemosa	Stiped Wallaby-grass
Austrostipa rudis	Veined Spear-grass
Bulbine bulbosa	Bulbine Lily
Carex breviculmis	Short-stem Sedge
Carex inversa	Common Sedge
Carex iynx	Tussock Sedge
Elymus scaber	Common Wheat-grass
Lomandra filiformis	Wattle Mat-rush
Microlaena stipoides	Weeping Grass
Poa labillardieri	Common Tussock-grass
Poa morrisii	Soft Tussock-grass
Schoenus apogon	Common Bog-sedge
Themeda triandra	Kangaroo Grass
Tricoryne elatior	Yellow Rush-lily
HERBS including DAISIES (10-20% cover)	
Acaena spp.	sheep's burrs
Bossiaea prostrata	Creeping Bossiaea
Dichondra repens	Kidney-weed
Drosera peltata ssp. auriculata	Tall Sundew
Gonocarpus tetragynus	Common Raspwort
Hypericum gramineum	Small St John's Wort
Lagenophora stipitata	Blue Bottle-daisy
Oxalis perennans	Grassland Wood-sorrel
Pimelea humilis	Common Rice-flower
Senecio quadridentatus	Cotton Fireweed
Veronica gracilis	Slender Speedwell
SUBSTRATE (5-10% cover): leaf litter/moss	

Conservation status in Greater Melbourne: regionally endangered **Distribution**: restricted across south between Bonds Road and Upper Heidelberg Road

Landform: alluvial plain; sheltered plain-slopes

Vegetation: PGWOsp contains up to five eucalypt species forming a forest canopy. There is an open tall shrub layer of wattles and dense field layer dominated by Weeping Grass. The latter also supports Kangaroo Grass and a high diversity of wallaby-grasses and lilies. The sheltered aspect promotes species adapted to higher soil moisture and fertility than in PGWOep (Hill Sedge, Blue Bottle-daisy, Swamp Gum). PGWOsp grades upslope into PGWOep and downslope into PGWOtv. Woody weeds (notably Hawthorn) threaten PGWOsp. **Most intact stand(s)**: relatively intact (Simpson Barracks); partially intact (Streeton Views and Viewbank). Intact nearby at Mont Park above Broadford Crescent.

Plains Grassy Woodland (EVC 55) Sub-community: PGWOtv River Red Gum (terrace/valley) Data: Banyule (Harry Pottage Reserve and Simpson Barracks)

TREES (15 m tall; 20% cover)		
Eucalyptus camaldulensis	River Red Gum	This copied document to be made available
Eucalyptus ovata	Swamp Gum	for the sole purpose of enabling
TALL SHRUBS & CLIMBERS (10-20% cover)		its consideration and review as
Acacia implexa	Lightwood	part of a planning process under the
Acacia mearnsii	Black Wattle	Planning and Environment Act 1987.
Acacia melanoxylon	Blackwood	The document must not be used for any
Acacia pycnantha	Golden Wattle	purpose which may breach any
Bursaria spinosa	Sweet Bursaria	copyright
Clematis microphylla	Small-leaved Clematis	
Exocarpos cupressiformis	Cherry Ballart	
Melicytus dentatus	Tree Violet	
SEDGES, LILIES, RUSHES & GRASSES (60-70% cover))	
Arthropodium strictum	Chocolate Lily	
Austrodanthonia spp.	Wallaby Grass	
Austrostipa rudis	Veined Spear-grass	
Carex iynx	Tussock Sedge	
Deyeuxia quadriseta	Reed Bent-grass	
Dianella amoena	Matted Flax-lily	
Elymus scaber	Common Wheat-grass	
Eragrostis brownii	Common Love-grass	
Hemarthria uncinata	Mat Grass	
Lomandra filiformis	Wattle Mat-rush	
Microlaena stipoides	Weeping Grass	
Poa spp.	Tussock Grass	
Tricoryne elatior	Yellow Rush-lily	
HERBS including DAISIES (10-20% cover)		
Acaena spp.	sheep's burrs	
Asperula conferta	Common Woodruff	
Bossiaea prostrata	Creeping Bossiaea	
Drosera peltata ssp. peltata	Pale Sundew	
Plantago varia	Variable Plantain	
Cynoglossum suaveolens	Sweet Hound's-tongue	
Dichondra repens	Kidney-weed	
Glycine microphylla	Small-leaf Glycine	
Opercularia ovata	Broad-leaf Stinkweed	
Poranthera microphylla	Small Poranthera	
Oxalis perennans	Grassland Wood-sorrel	
Veronica gracilis	Slender Speedwell	
SUBSTRATE (5-10% cover): leaf litter		

Conservation status in Greater Melbourne: regionally endangered

Distribution: restricted across south between Bonds Road and Darebin Creek

Landform: alluvial plain; creek valleys and high level stream terraces

Vegetation: PGWOtv has a more strongly developed tall shrub layer (Black Wattle, Tree Violet) than PGWOep. The field layer is dominated by Weeping Grass and supports species adapted to more shaded conditions (Small-leaf Glycine) and moist, fertile soils (Common Love-grass, Mat Grass, Common Tussock-grass). Kangaroo Grass becomes dominant over Weeping Grass at the boundary with PGWOep upslope. PGWOtv borders CGWc/dl along creeks or drainage lines (swales and minor gullies support overlap species). It also borders FRWtr on lower river terraces. PGWOtv is the plains floristic equivalent of VGFsf in the foothills. **Most intact stand(s)**: relatively intact (Simpson Barracks); partially intact (Harry Pottage).

Plains Grassy Woodland (EVC 55) Sub-community: PGWOvp River Red Gum (volcanic plain) Data: District (R&D in Plenty Gorge Park)

TREES (12-15 m tall; 10-20% cover)		
Eucalyptus camaldulensis	River Red Gum	
Eucalyptus melliodora	Yellow Box	This copied document to be made available
TALL SHRUBS & CLIMBERS (10% cover)		for the sole purpose of enabling
Acacia implexa	Lightwood	its consideration and review as
Acacia mearnsii	Black Wattle	part of a planning process under the
Acacia melanoxylon	Blackwood	Planning and Environment Act 1987.
Acacia paradoxa	Hedge Wattle	The document must not be used for any
Bursaria spinosa	Sweet Bursaria	purpose which may breach any
Convolvulus erubescens	Pink Bindweed	copyright
Melicytus dentatus	Tree Violet	
SEDGES, LILIES, RUSHES & GRASSES (50-609	% cover)	
Agrostis aemula	Purplish Blown-grass	
Arthropodium strictum	Chocolate Lily	
Austrodanthonia spp.	Wallaby Grass	
Burchardia umbellata	Milkmaids	
Caesia calliantha	Blue Grass-lily	
Carex breviculmis	Short-stem Sedge	
Deyeuxia quadriseta	Reed Bent-grass	
Dichelachne crinita	Long-hair Plume-grass	
Elymus scaber	Common Wheat-grass	
Lomandra filiformis	Wattle Mat-rush	
Microlaena stipoides	Weeping Grass	
Poa labillardieri	Common Tussock-grass	
Schoenus apogon	Common Bog-sedge	
Themeda triandra	Kangaroo Grass	
Tricoryne elatior	Yellow Rush-lily	
HERBS including DAISIES (20-30% cover)		
Asperula conferta	Common Woodruff	
Bossiaea prostrata	Creeping Bossiaea	
Cynoglossum suaveolens	Sweet Hound's-tongue	
Geranium retrorsum	Grassland Crane's-bill	
Glycine tabacina	Variable Glycine	
Leptorhynchos squamatus	Scaly Buttons	
Oxalis perennans	Grassland Wood-sorrel	
Veronica gracilis	Slender Speedwell	
Wahlenbergia gracilis	Sprawling Bluebell	
SUBSTRATE (5-10% cover): leaf litter		

Conservation status in Greater Melbourne: regionally endangered

Distribution: Darebin Creek to Waterdale Road

Landform: volcanic plain; silt plain on leading edge of the Merri Volcanic Plains

Vegetation: PGWOvp contains open strata of River Red Gums (scattered Yellow Box) and tall wattles over volcanic plains grassland dominated by Kangaroo Grass. The field layer supports a diverse assemblage of lilies, orchids and daisies. Apart from above the escarpments of Darebin Creek, the silt plains of Banyule apparently lacked lava outcrops and its stony knoll flora which occurs in the Plenty Gorge. Swales supported PGWOvs while vegetation on the boundary of the lava plain and alluvial plain would have supported floristic elements of PGWOep (Small-leaved Clematis, Burgan). PGWOvp further west on the Merri Volcanic Plains (where River Red Gums are absent) grades into communities dominated by Kangaroo Grass (plains grassland on silt/stony plains and stony knoll grassland at stony rises).

Most intact stand(s): eliminated from Banyule; remnants adjoining above Darebin Creek at La Trobe University.

Plains Grassy Woodland (EVC 55)Sub-community: PGWOvs River Red Gum (volcanic swale/terrace)Data: District (Bundoora Park, La Trobe University & Sullivan Park Reservoir)

TREES (12-15 m tall; 10-20% cover)

IKEES (12-15 m tail; 10-20% cover)		
Eucalyptus camaldulensis	River Red Gum	
TALL SHRUBS & CLIMBERS (10% cover)		
Acacia implexa	Lightwood	
Acacia mearnsii	Black Wattle	
Bursaria spinosa	Sweet Bursaria	
Melicytus dentatus	Tree Violet	
SEDGES, LILIES, RUSHES & GRASSES (50-60% cove	er)	
Agrostis avenacea	Common Blown-grass	
Austrodanthonia spp.	Wallaby Grass	
Carex inversa	Common Sedge	
Deyeuxia quadriseta	Reed Bent-grass	
Dianella revoluta	Black-anther Flax-lily	
Dichelachne crinita	Long-hair Plume-grass	
Elymus scaber	Common Wheat-grass	This copied document to be made available
Eragrostis brownii	Common Love-grass	for the sole purpose of enabling
Hemarthria uncinata	Mat Grass	its consideration and review as
Juncus subsecundus	Finger Rush	part of a planning process under the
Lomandra filiformis	Wattle Mat-rush	Planning and Environment Act 1987.
Microlaena stipoides	Weeping Grass	The document must not be used for any
Pentapogon quadrifidus	Five-awned Spear-grass	purpose which may breach any
Poa labillardieri	Common Tussock-grass	copyright
Themeda triandra	Kangaroo Grass	
Tricoryne elatior	Yellow Rush-lily	
HERBS including DAISIES (20-30% cover)		
Asperula conferta	Common Woodruff	
Calocephalus lacteus	Milky Beauty-heads	
Convolvulus remotus	Grassy Bindweed	
Drosera peltata ssp. peltata	Pale Sundew	
Geranium solanderi	Austral Crane's-bill	
Haloragis heterophylla	Varied Raspwort	
Lobelia pratioides	Poison Lobelia	
Oxalis perennans	Grassland Wood-sorrel	
Senecio quadridentatus	Cotton Fireweed	
Veronica gracilis	Slender Speedwell	
Wahlenbergia communis	Tufted Bluebell	
SUBSTRATE (5-10% cover): leaf litter		

Conservation status in Greater Melbourne: regionally endangered

Distribution: restricted to the Darebin Creek valley (including Bundoora)

Landform: volcanic plain; swales, disrupted drainage lines and creek terraces

Vegetation: PGWOvs contains an open stratum of River Red Gums and copses of tall wattles and bursaria over plains grassland dominated by Common Tussock-grass. It occupies seasonally damp terraces of Darebin Creek and swales on the silt plain to the east. The latter being eliminated along with vegetation of drainage lines (CGWdl). The original extent is unknown. Some pre-settlement stands probably occurred in areas mapped as PGWOvp. Adjacent remnants occur north of Crissane Road at La Trobe University and opposite Dougharty Road at east end of Sullivan Park. Further west on the Merri Volcanic Plains (where River Red Gums are absent), PGWOvs grades into plains grassland dominated by Common Tussock-grass. At R&D Plenty Gorge, freshwater meadow elements (Brown-back Wallaby-grass, Milky Beauty-heads) develop at gilgais into seasonal wetland (SWfm - Beardsell 1997a). The band along Darebin Creek terrace is often too narrow to show on map.

Most intact stand(s): degraded (Darebin Creek terrace); eliminated to east of creek.

Plains Sedgy Wetland. Sub-community PSWEma. EVC 647

Definition: Tall Sedge - Hollow Sedge (freshwater marsh). Regional Conservation Status: critically endangered			
SEDGES, LILIES, RUSHES & GRASSES (70% cover)			
Alisma plantago-aquatica	Water Plantain		
Amphibromus nervosus	Veined Swamp Wallaby-grass		
Baumea arthrophylla	Fine Twig-sedge		
Bolboschoenus medianus	Marsh Club-sedge		
Carex appressa & Carex tereticaulis	Tall Sedge & Hollow Sedge		
Eleocharis acuta	Common Spike-sedge		
Ficinia nodosa	Knobby Club-sedge		
Glyceria australis	Australian Sweet-grass		
Isolepis inundata	Swamp Club-sedge		
Juncus amabilis & Juncus gregiflorus	Hollow Rush & Green Rush		
Juncus sarophorus	Broom Rush		
Phragmites australis	Common Reed		
Schoenoplectus tabernaemontanii	River Club-sedge		
Triglochin procera	Upright Water-ribbons		
Typha domingensis	Narrow-leaf Cumbungi		
DICOT HERBS including DAISIES (20% cover)			
Alternanthera denticulata	Lesser Joyweed		
Crassula helmsii	Swamp Crassula		
Elatine gratioloides	Waterwort		
Myriophyllum simulans	Amphibious Water-milfoil		
Neopaxia australasica	White Purslane		
Persicaria decipiens	Slender Knotweed		
Ranunculus inundatus	River Buttercup		
Rumex bidens	Mud Dock		
Stellaria angustifolia	Swamp Starwort		
SUBSTRATE (10% cover): bare ground/mudflats; grass litter			

Distribution: highly localised at Yaruk Tamboore and formerly at Banyule Swamp

Landform: *wetland*; swamps on alluvial plains inundated more than 6 months of year to an average depth not exceeding 0.25 m (Yaruk Tamboore has drains and supports a shorter periodicity of inundation)

Vegetation: taller sedge and rush-dominated seasonal wetland of the lowland plains. Intact stands have a conspicuous herbaceous component including species characteristically associated with wet sites on fertile soils (hence few stands survived pastoral settlement). Moisture supply appears to be more reliable (e.g. associated with springs or seepage from surrounding hills) than for sites supporting plains grassy wetland. Plains sedgy wetland usually occurs in mosaic or complex in deeper water with aquatic herbland/tall marsh or shallower water with plains grassy wetland. PSWEma occurs locally at semi-permanent wetlands. Deeper water consists of elements from tall marsh (TMbs) including Marsh Club-sedge and Giant Rush and elements from aquatic herbland (AHbs) including Water Plantain and Upright Water-ribbons. Shallower water supports an amphibious herbfield of Tall Sedge, Hollow Sedge, Common Spike-sedge, Veined Swamp Wallaby-grass, Amphibious Water-milfoil and White Purslane. These also occur in plains grassy wetland (PGWEme) that usually fringes in seasonally inundated freshwater meadows. A number of species from CGWc along creeks (Marsh Club-sedge, Water-pepper, Slender Knotweed and Mud Dock) are present.

Significant flora - Reg Thr: Baumea arthrophylla (reinstated to Yaruk Tamboore), Bolboschoenus medianus, Ranunculus inundatus & Stellaria angustifolia

Stand quality: relatively intact at Yaruk Tamboore (Murundaka).

Riverine Escarpment Scrub (EVC 82) Sub-community: **RESes** Golden Wattle - Burgan (exposed sedimentary) **Data:** Banyule (Partington Flat and Yallambie). District (Plenty Gorge)

CANOPY & CLIMBERS (2-8 m tall; 20-30% cover)	
Acacia implexa	Lightwood
Acacia mearnsii	Black Wattle
Acacia pycnantha	Golden Wattle
Bursaria spinosa	Sweet Bursaria
Cassinia longifolia	Dogwood
Clematis microphylla	Small-leaved Clematis
Convolvulus erubescens	Pink Bindweed
Exocarpos cupressiformis	Cherry Ballart
Hardenbergia violacea	Purple Coral-pea
Kunzea ericoides	Burgan
LOW SHRUBS (10-20% cover)	
Acacia acinacea	Gold-dust Wattle
Chrysocephalum semipapposum (FF)	Clustered Everlasting (Foothill form)
Correa glabra	Rock Correa
Dodonaea viscosa ssp. cuneata	Wedge-leaf Hop-bush
Enchylaena tomentosa	Ruby Saltbush
Myoporum viscosum	Sticky Boobialla
Pomaderris prunifolia	Prunus Pomaderris
SEDGES, LILIES, RUSHES & GRASSES (10-20% cover)	
Austrodanthonia spp.	Wallaby Grass
Austrostipa densiflora	Dense Spear-grass
Austrostipa scabra ssp. falcata	Slender Spear-grass
Dianella revoluta	Black-anther Flax-lily
Dichelachne crinita	Long-hair Plume-grass
Lepidosperma laterale	Variable Sword-sedge
Lomandra filiformis	Wattle Mat-rush
Lomandra longifolia	Spiny-headed Mat-rush
Microlaena stipoides	Weeping Grass
HERBS including DAISIES (10-20% cover)	
Brachyscome multifida	Cut-leaf Daisy
Carpobrotus modestus	Inland Pigface
Crassula sieberiana	Austral Stonecrop
Einadia hastata	Saloop Saltbush
Einadia nutans	Nodding Saltbush
Galium gaudichaudii	Rough Bedstraw
Gonocarpus tetragynus	Common Raspwort
Pimelea humilis	Common Rice-flower
Stellaria pungens	Prickly Starwort
Stuartina muelleri	Spoon Cudweed
Wahlenbergia luteola	Yellowish Bluebell
SUBSTRATE (30-40% cover): bare ground/rocks	

Conservation status in Greater Melbourne: regionally disjunct

Distribution: localised above Plenty River and Darebin Creek at Darebin Parklands

Landform: foothill; exposed sedimentary stream cliff/escarpments

Vegetation: varying from bare rock faces on exposed vertical cliffs, to shrubland with sparse cover of herbs on dry rock ledges, to scrub or open woodland on escarpments. Long-leaf Box, Red Stringybark and Yellow Box (affinity BSWhy) attend RESes, but the diagnostic structural component is provided by wattles. A spear-grass/chenopod alliance (also in BIFsy) is disjunct from "mallee" areas west of Melbourne (see Beardsell 1997a). It includes Dense Spear-grass, Inland Pigface, Cut-leaf Daisy, Saloop Saltbush, Sticky Boobialla and Wedge-leaf Hop-bush.

Most intact stand(s): partially intact at Partington Flat

Riverine Escarpment Scrub (EVC 82) Sub-community: **RESss** Burgan - Sweet Bursaria (sheltered sedimentary) **Data:** District (Plenty Gorge Park; see Beardsell 1997a)

CANOPY & CLIMBERS (2-8 m; 30-50% cover)	
Acacia dealbata	Silver Wattle
Acacia melanoxylon	Blackwood
Bursaria spinosa	Sweet Bursaria
Cassinia longifolia	Dogwood
Clematis microphylla	Small-leaved Clematis
Melicytus dentatus	Tree Violet
Kunzea ericoides	Burgan
LOW SHRUBS (10-20% cover)	
Chrysocephalum semipapposum (GF)	Clustered Everlasting (Gully form)
Goodenia ovata	Hop Goodenia
Olearia lirata	Snow Daisy-bush
Rubus parvifolius	Small-leaf Bramble
FERNS (5-10% cover)	
Adiantum aethiopicum	Common Maiden-hair
Pteridium esculentum	Austral Bracken
SEDGES, LILIES, RUSHES & GRASSES (20-30% cover)	
Arthropodium strictum	Chocolate Lily
Dianella longifolia	Pale Flax-lily
Echinopogon ovatus	Common Hedgehog-grass
Lepidosperma laterale	Variable Sword-sedge
Lomandra longifolia	Spiny-headed Mat-rush
Microlaena stipoides	Weeping Grass
Poa spp.	Tussock Grass
HERBS including DAISIES (20-30% cover)	
Acaena novae-zelandiae	Bidgee-widgee
Brunonia australis	Blue Pincushion
Cymbonotus preissianus	Austral Bear's-ears
Desmodium gunnii	Southern Tick-trefoil
Galium propinquum	Maori Bedstraw
Geranium potentilloides	Cinquefoil Crane's-bill
Glycine microphylla	Small-leaf Glycine
Gonocarpus humilis	Shade Raspwort
Lagenophora stipitata	Blue Bottle-daisy
Plantago debilis	Shade Plantain
Ranunculus lappaceus	Australian Buttercup
Stackhousia monogyna	Creamy Candles
Stellaria pungens	Prickly Starwort
Veronica calycina	Hairy Speedwell
Wahlenbergia gracilis/stricta	Sprawling/Tall Bluebell
SUBSTRATE (10-20% cover): rock/bare ground/moss	

Conservation status in Greater Melbourne: regionally disjunct

Distribution: localised along Plenty River upstream from Lower Plenty Road

Landform: riverine; sheltered cliff faces of rivers

Vegetation: varying from bare rock faces on vertical cliffs, through shrubland on steep escarpments, fernland in damp rock fissures and rills, to herbfields on earth ledges. Long-leaf Box, Red Stringybark and Yellow Box (affinity HFFsl) attend RESss, but the diagnostic structural component is provided by tall shrubs. Flora of sheltered cliffs comprises elements of damp mountain forest (Hairy Speedwell), riverine (Muttonwood) and lowland grasslands (Kangaroo Grass). RESss supports a high diversity of herbs, with daisies being particularly prominent. There are also specialist species of rock surfaces or skeletal soils (e.g. Austral Stork's-bill). **Most intact stand(s)**: degraded (Yallambie); nearest intact Plenty Gorge at Janefield.

Riverine Escarpment Scrub (EVC 82) Sub-community: **RESvc** Lightwood - Tree Violet (volcanic cliff) **Data:** Banyule (Darebin Creek upstream of Dougharty Road). District (Plenty Gorge)

Durie (Darcon Creek apsican of Dougharty Roua).	District (Field) Golge)	
CANOPY & CLIMBERS (2-8 m tall; 20-30% cover)		
Acacia implexa	Lightwood	
Acacia mearnsii	Black Wattle	
Acacia melanoxylon	Blackwood	
Allocasuarina verticillata	Drooping Sheoke	
Bursaria spinosa	Sweet Bursaria	
Cassinia longifolia	Dogwood	
Clematis microphylla	Small-leaved Clematis	
Convolvulus erubescens	Pink Bindweed	
Exocarpos cupressiformis	Cherry Ballart	
Melicytus dentatus	Tree Violet	
LOW SHRUBS (10% cover)		
Chrysocephalum semipapposum (FF)	Clustered Everlasting (Foot	hill form)
Rubus parvifolius	Small-leaf Bramble	
Solanum aviculare	Kangaroo Apple	
FERNS (10% cover)		
Asplenium flabellifolium	Necklace Fern	
Cheilanthes sieberi	Narrow Rock-fern	
Pellaea falcata var. falcata	Sickle Fern	This copied document to be made available
Pteridium esculentum	Austral Bracken	for the sole purpose of enabling
SEDGES, LILIES, RUSHES & GRASSES (20-30% cover)		its consideration and review as
Austrodanthonia spp.	Wallaby Grass	part of a planning process under the
Austrostipa spp.	Spear Grass	Planning and Environment Act 1987.
Dichelachne crinita	Long-hair Plume-grass	The document must not be used for any
Lepidosperma laterale	Variable Sword-sedge	purpose which may breach any
Lomandra longifolia	Spiny-headed Mat-rush	copyright
Microlaena stipoides	Weeping Grass	L
Poa rodwayi	Velvet Tussock-grass	
Themeda triandra	Kangaroo Grass	
Tricoryne elatior	Yellow Rush-lily	
HERBS including DAISIES (10-20% cover)		
Einadia nutans	Nodding Saltbush	
Galium migrans	Wandering Bedstraw	
Geranium retrorsum	Grassland Crane's-bill	
Glycine tabacina	Variable Glycine	
Oxalis perennans	Grassland Wood-sorrel	
Pelargonium australe	Austral Stork's-bill	
Veronica gracilis	Slender Speedwell	
Wahlenbergia luteola	Yellowish Bluebell	
SUBSTRATE (20-30% cover): basalt rock		

Conservation status in Greater Melbourne: regionally endangered

Distribution: Darebin Creek upstream from Donaldsons Creek at Darebin Parklands

Landform: volcanic plain; Quaternary basalt stream cliff/escarpments

Vegetation: RESvc varies from scattered River Red Gums and open shrubland at cliff bases, to fernland in shaded rock fissures and rills, to grassland on columnar basalt cliff tops and sparse herbfield on ledges of bare rock faces. Cliff tops verge onto PGWOvp on the plains and would have supported stony knoll grassland species (e.g. Triptilodiscus pygmaeus Common Sunray). Cliff bases adjoin RSvc along Darebin Creek. RESvc is replaced by PGWOvs where terraces develop. It has some different grasses and herbs to RESes/ss on sedimentary cliffs but most of the shrub species are shared.

Most intact stand(s):partially intact on Darebin Creek upstream of Dougharty Rd.

Riparian Shrubland (EVC 19) Sub-community: **RSsr** Muttonwood (sedimentary rapids) **Data:** Banyule (Plenty at Greensborough, Montmorency: Yarra at Westerfolds, Bonds Road)

Duni Bullyare (Trenty ut Greenscorough, Monthore	neg, i unu ut vi esterioras, Bonas itou	<i>a)</i>
CANOPY & CLIMBERS (2-8 m tall; 30-50% cove	r)	
Acacia dealbata	Silver Wattle	
Callistemon sieberi	River Bottlebrush	
Calystegia sepium	Large Bindweed	
Coprosma quadrifida	Prickly Currant-bush	
Eucalyptus viminalis	Manna Gum	
Gynatrix pulchella	Hemp Bush	
Melicytus dentatus	Tree Violet	
Kunzea ericoides	Burgan	
Ozothamnus ferrugineus	Tree Everlasting	
Pomaderris aspera	Hazel Pomaderris	
Myrsine howittiana	Muttonwood	
SEDGES, LILIES, RUSHES & GRASSES (20-30	% cover)	
Agrostis avenacea	Common Blown-grass	
Alisma plantago-aquatica	Water Plantain	
Carex gaudichaudiana	Fen Sedge	
Carex polyantha	River Sedge	
Glyceria australis	Australian Sweet-grass	
Isolepis platycarpa	Broad-fruit Club-sedge	This conied document to be made available
Juncus spp.	rushes	for the sole purpose of enabling
Phragmites australis	Common Reed	its consideration and review as
Poa ensiformis	Sword Tussock-grass	nart of a planning process under the
Potamogeton crispus	Curly Pondweed	Planning and Environment Act 1987.
Schoenoplectus tabernaemontani	River Club-sedge	The document must not be used for any
HERBS including DAISIES (20-30% cover)		purpose which may breach any
Alternanthera denticulata	Lesser Joyweed	copyright
Crassula helmsii	Swamp Crassula	
Gratiola peruviana	Austral Brooklime	
Hydrocotyle verticillata	Shield Pennywort	
Lobelia anceps	Angled Lobelia	
Lycopus australis	Australian Gipsywort	
Mazus pumilio	Swamp Mazus	
Persicaria spp.	knotweeds	
Pratia pedunculata	Matted Pratia	
Senecio minimus	Shrubby Fireweed	
Urtica incisa	Scrub Nettle	
SUBSTRATE (20-30% cover): rocks/water; bare gro	ound/mudflats (at low flow)	

Conservation status in Greater Melbourne: regionally disjunct/rare

Distribution: localised along upstream sections of Yarra River and Plenty River and Darebin Creek from Darebin Parklands to Heidelberg Road

Landform: riverine; sedimentary river rapids including riverbank, sandy points, islands of silt or rock and associated channels and adjoining cliff bases

Vegetation: RSsr intersperses FRWrm/rr along the Yarra and Plenty. The dominant strata is provided by Silver Wattle, Tree Violet and Muttonwood varying in density from open shrubland (10% cover) to closed scrub (over 50%). There is a scattering of Manna Gums. The Yarra bank and channels of islands support dense reed-beds (River Club-sedge, Common Reed) and amphibious herbfields (Hairy Knotweed, Austral Brooklime). Narrow terraces at the foot of cliffs support shade tolerant ferns and herbs (Shining Pennywort). Rocks provide habitat for specialists including River Sedge of mountain streams and Swamp Mazus from coastal swamps. Rapids provide a foothill enclave into the plains dominated riparian vegetation. RSsr has affinity with RSvc of volcanic streams (e.g. Darebin Creek). **Most intact stand(s)**: relatively intact (rapids at Westerfolds Park and Bonds Road).

Riparian Shrubland (EVC 19)
Sub-community: RSvc Woolly Tea-tree (volcanic creek)
Data: Banyule (Darebin Ck near Dougharty Rd). District (Plenty River). Other (Merri Ck)

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CANOPY & CLIMBERS (2-8 m tall; 20-30% co	over)	Planning and Environment Ac
Acacia dealbata	Silver Wattle	The document must not be used
Bursaria spinosa	Sweet Bursaria	purpose which may breach
Callistemon sieberi	River Bottlebrush	copyright
Calystegia sepium	Large Bindweed	
Eucalyptus camaldulensis	River Red Gum	
Leptospermum lanigerum	Woolly Tea-tree	
Gynatrix pulchella	Hemp Bush	
Melicytus dentatus	Tree Violet	
LOW SHRUBS (10% cover)		
Coprosma quadrifida	Prickly Currant-bush	
Rubus parvifolius	Small-leaf Bramble	
SEDGES, LILIES, RUSHES & GRASSES (30-	40% cover)	
Agrostis avenacea	Common Blown-grass	
Baumea juncea	Bare Twig-sedge	
Bolboschoenus medianus	Marsh Club-sedge	
Carex tereticaulis	Hollow Sedge	
Eleocharis acuta	Common Spike-sedge	
Eleocharis sphacelata	Tall Spike-sedge	
Isolepis nodosa	Knobby Club-sedge	
Isolepis platycarpa	Broad-fruit Club-sedge	
Juncus spp.	rushes	
Phragmites australis	Common Reed	
Poa labillardieri	Common Tussock-grass	
Schoenoplectus tabernaemontani	River Club-sedge	
Typha domingensis	Narrow-leaf Cumbungi	
HERBS including DAISIES (10-20% cover)		
Alternanthera denticulata	Lesser Joyweed	
Apium prostratum ssp. prostratum	Sea Celery	
Centella cordifolia	Centella	
Crassula helmsii	Swamp Crassula	
Geranium inundatum	Naked Crane's-bill	
Hydrocotyle verticillata	Shield Pennywort	
Leptinella reptans	Creeping Cotula	
Persicaria decipiens	Slender Knotweed	
Rumex bidens	Mud Dock	
Samolus repens	Creeping Brookweed	
Selliera radicans	Shiny Swamp-mat	
SUBSTRATE (20% cover): rocks; bare ground/m	udflats (at low flow)	

Conservation status in Greater Melbourne: regionally threatened

Distribution: Darebin Creek upstream from Darebin Parklands

Landform: riverine; banks and floodplains of streams on the volcanic plains

Vegetation: dominant native strata are tall shrubs (River Bottlebrush, Woolly Tea-tree, Silver Wattle) and riparian herbfield. The latter consists of reed-beds (River Club-sedge, Common Reed, Cumbungi) in deeper water and sedgeland (Bare Twig-sedge, Marsh Club-sedge) in shallow water while amphibious herbfield (Common Tussock-grass, Slender Knotweed) occupies the banks. There is a scattering of River Red Gums. Adjoining floodplain terraces support PGWOvs while columnar basalt cliffs support RESvc. Salt-tolerant herbfields (Knobby Club-sedge, Creeping Brookweed and Shiny Swamp-mat) grow in basalt pavements, soaks and anabranches. Swamp Paperbark (extensively planted) is not indigenous to RSvc.

Most intact stand(s): degraded (Darebin Ck). Nearest intact Merri Ck Campbellfield.

Swamp Scrub (EVC 53) Sub-community: SSf Swamp Paperbark (floodplain) Data: District (Willsmere Billabong). Other (Yering Backsw	amp; Beardsell in prep.)	This copied document to be made available for the sole purpose of enabling
CANOPY & CLIMBERS (2-8 m tall; 30-40% cover)	Cilver Wettle	its consideration and review as
Acacia dealbala Eucohntus camaldulansis	Biver Red Gum	Planning and Environment Act 1987
Eucarypius camatautensis Malientus dentatus	Trae Vielet	The document must not be used for any
Wencytus dentatus	Durgen	nurnose which may breach any
Kunzea ericolaes	Swamn Banarhard	copyright
Metaleuca ericijota	Swamp Paperbark	copyright
I OW SUBURS (5, 10% cover)	Muttonwood	
LOW SHRUBS (5-10% cover)	Driable Comment hash	
Coprosma quaarijida	Prickly Currant-bush	
Solanum aviculare	Kangaroo Apple	
FERNS (5-10% cover)		
Calochlaena dubia	Common Ground-fern	
SEDGES, LILIES, RUSHES & GRASSES (20-30% cover	r)	
Agrostis avenacea	Common Blown-grass	
Carex appressa	Tall Sedge	
Carex gauaicnauaiana	Fen Sedge	
Echinopogon ovatus	Common Hedgehog-grass	
Isolepis inundata	Swamp Club-sedge	
Juncus amabilis	Hollow Rush	
Juncus gregiflorus	Green Rush	
Poa ensiformis	Sword Tussock-grass	
Poa tenera	Slender Tussock-grass	
Schoenus maschalinus	Leafy Bog-sedge	
HERBS including DAISIES (20-30% cover)		
Acaena novae-zelandiae	Bidgee-widgee	
Centella cordifolia	Centella	
Callitriche muelleri	Round Water-starwort	
Hydrocotyle hirta	Hairy Pennywort	
Hydrocotyle sibthorpioides	Shining Pennywort	
Hypericum japonicum	Matted St John's Wort	
Lobelia anceps	Angled Lobelia	
Lycopus australis	Australian Gipsywort	
Neopaxia australasica	White Purslane	
Persicaria hydropiper	Water-pepper	
Persicaria praetermissa	Spotted Knotweed	
Senecio minimus	Shrubby Fireweed	
Stellaria flaccida	Forest Starwort	
SUBSTRATE (5-10% cover): logs, litter and bare ground		

Conservation status in Greater Melbourne: regionally endangered

Distribution: Yarra floodplain

Landform: riverine; floodplain billabongs and river flat swampland

Vegetation: SSf contains a dense canopy of Swamp Paperbark and tall shrubs from FRWrr and RSsr on the Yarra banks (Silver Wattle, Muttonwood, Prickly Currant-bush). The field layer consists of shade tolerant bog species (e.g. Matted St John's Wort). Banks support species from higher rainfall areas (e.g. ferns and Forest Starwort). As swamps infill with alluvium and waterlogging reduces, a succession occurs from permanent wetland to seasonal wetland to swamp scrub finally to FRWtr. This is influenced by degree of inundation and slope of banks. SSf will likely replace WFeh at the northern wetland of Banyule Flats as it infills with stormwater sediment. SSf fringes FPHfm/PGWEme at floodplain swamps, WVSfm at backswamps and FPHbm at billabongs with low banks. FRWtr replaces SSf at billabongs with high banks.

Most intact stand(s): remnant at Yarra Flats. Nearest stand is Willsmere Billabong.

Valley Grassy Forest (EVC 47)

Sub-community: VGFeh Yellow Box (exposed hill-slope)

Data: Eastern part of Yandell Reserve.	
TREES (12-15 m tall; 15-25% cover)	
Eucalyptus goniocalyx & E. macrorhyncha	Long-leaf Box & Red Stringybark
Eucalyptus melliodora & Eucalyptus rubida	Yellow Box & Candlebark
TALL SHRUBS & CLIMBERS (10-20% cover)	
Acacia implexa & Acacia mearnsii	Lightwood & Black Wattle
Acacia paradoxa & Acacia pycnantha	Hedge Wattle & Golden Wattle
Bursaria spinosa & Cassinia longifolia	Sweet Bursaria & Dogwood
Clematis microphylla	Small-leaved Clematis
Glycine clandestine	Twining Glycine
Hardenbergia violacea	Purple Coral-pea
LOW SHRUBS (5-10% cover)	
Acacia acinacea	Gold-dust Wattle
Acrotriche serrulata	Honeypots
Chrysocephalum semipapposum(FF)	Clustered Everlasting (Foothill Form)
Daviesia leptophylla	Narrow-leaf Bitter-pea
Dillwynia cinerascens & Pimelea curviflora	Grey Parrot-pea & Curved Rice-flower
Platylobium obtusangulam & Pultenaea pedunculata	Common Flat-pea & Matted Bush-pea
SEDGES, LILIES, RUSHES & GRASSES (50-60% cover)	
Arthropodium strictum	Chocolate Lily
Austrodanthonia spp & Austrostipa spp	Wallaby Grass & Spear Grass
Burchardia umbellate	Milkmaids
Dianella admixta	Black-anther Flax-lily
Elymus scaber	Common Wheat-grass
Lomandra filiformis	Wattle Mat-rush
Microlaena stipoides	Weeping Grass
Poa sieberiana var. sieberiana	Grey Tussock-grass
Themeda triandra	Kangaroo Grass
DICOT HERBS including DAISIES (10-20% cover)	
Acaena echinata	Sheep's Burr
Asperula conferta & Bossiaea prostrate	Common Woodruff & Creeping Bossiaea
Brunonia australis & Convolvulus angustissimus	Blue Pincushion & Pink Bindweed
Cynoglossum suaveolens	Sweet Hound's-tongue
Gonocarpus tetragynus	Common Raspwort
Helichrysum scorpioides	Button Everlasting
Hovea heterophylla & Kennedia prostrate	Common Hovea & Running Postman
Leptorhynchos squamatus & Opercularia varia	Scaly Buttons & Variable Stinkweed
Plantago varia	Variable Plantain
Ranunculus lappaceus & Velleia paradoxa	Australian Buttercup & Spur Velleia
Wahlenbergia stricta	Tall Bluebell
SUBSTRATE (10-20% cover): leaf litter/moss; logs	

Conservation status in Greater Melbourne: regionally endangered

Distribution: slopes of the Plenty River and Diamond Creek catchments, extent not currently mapped outside of Yandell Reserve. Landform: *foothill (crest & hill-slope)*; exposed hill-slopes

Vegetation: VGFeh is characterised by a combination of gum and box eucalypts over a moderate tall shrub layer of Dogwood, Hedge Wattle and Sweet Bursaria. There is an open low shrub layer while openings support a species-rich ground layer of grasses, lilies and dicot herbs including ground-peas, geraniums, bluebells and rice-flowers. VGFeh occupies moderately fertile hill-slopes below box - ironbark forest (BIFsy). Sunny openings on exposed hill-slopes support grassland species from plains grassy woodland (PGWOep). These include Arching Flax-lily, Golden Moths, Blue Grass-lily, Kangaroo Grass, Clover Glycine and Spur Velleia. The stand formerly supported a diverse orchid flora. VGFeh is replaced by plains grassy woodland (PGWOep) on the alluvial plains at Heidelberg. **Most intact stand(s):** small areas relatively intact in eastern Yandell Reserve.

Valley Grassy Forest (EVC 47) Sub-community: VGFsf Long-leaf Box - Candlebark (sheltered foot-slope) Data: Yandell Reserve.

TREES (15 m tall; 20-30% cover)	
Eucalyptus goniocalyx	Long-leaf Box
Eucalyptus macrorhyncha & Eucalyptus melliodora	Red Stringybark & Yellow Box
Eucalyptus rubida	Candlebark
TALL SHRUBS & CLIMBERS (10-20% cover)	
Acacia implexa & Acacia mearnsii	Lightwood & Black Wattle
Acacia melanoxylon & Bursaria spinosa	Blackwood & Sweet Bursaria
Cassinia longifolia & Clematis microphylla	Dogwood & Small-leaved Clematis
Glycine clandestine & Kunzea leptospermoides	Twining Glycine & Yarra Burgan
Melicytus dentatus	Tree Violet
LOW SHRUBS (5-10% cover)	
Acacia genistifolia & Acrotriche serrulata	Spreading Wattle & Honeypots
Coprosma quadrifida & Correa reflexa	Prickly Currant-bush & Common Correa
Daviesia leptophylla & Platylobium obtusangulam	Common Flat-pea & Narrow-leaf Bitter-pea
Pultenaea gunnii	Golden Bush-pea
SEDGES, LILIES, RUSHES & GRASSES (40% cover)	
Arthropodium strictum	Chocolate Lily
Austrodanthonia laevis & Austrodanthonia racemosa	Smooth Wallaby-grass & Stiped Wallaby-grass
Carex iynx	Tussock Sedge
Dianella amoena & Dianella laevis	Matted Flax-lily & Pale Flax-lily
Deyeuxia quadriseta & Elymus scaber	Reed Bent-grass & Common Wheat-grass
Lomandra filiformis & Lomandra longifolia	Wattle Mat-rush & Spiny-headed Mat-rush
Microlaena stipoides	Weeping Grass
Notodanthonia semiannularis	Wetland Wallaby-grass
Poa labillardieri & Poa morrisii	Common Tussock-grass & Soft Tussock-grass
Themeda triandra	Kangaroo Grass
DICOT HERBS including DAISIES (30% cover)	
Acaena agnipila	Hairy Sheep's Burr
Dichondra repens	Kidney-weed
Gonocarpus tetragynus & Helichrysum scorpioides	Common Raspwort & Button Everlasting
Haloragis heterophylla	Varied Raspwort
Ranunculus lappaceus	Australian Buttercup
Senecio spp.	fireweeds/groundsels
Stackhousia monogyna	Creamy Candles
Veronica gracilis & Viola hederacea	Slender Speedwell & Ivy-leaf Violet
Wahlenbergia stricta	Tall Bluebell
SUBSTRATE (10% cover): litter/logs	

Conservation status in Greater Melbourne: regionally threatened

Distribution: Valleys of the Plenty River and Diamond Creek catchments

Landform: foothill (valley & foot-slope); valleys and sheltered foot-slopes

Vegetation: VGFsf has an open eucalypt layer, prominent tall shrub layer (wattles and bursaria in undisturbed stands), open low shrub layer and diverse and prominent field layer adapted to damp, shaded environments (Common Maiden-hair, Pale Vanilla-lily, Weeping Grass, Soft Tussock-grass, Austral Bear's-ears, Kidney-weed, Annual Buttercup). These species also occur in HFFsl on the adjoining sheltered hill-slopes (and higher rainfall mountain areas). Valleys support riparian species from CHWdl adapted to higher soil moisture and fertility (Centella, Swamp Gum, Tussock Sedge, Thatch-Saw-sedge, Varied Raspwort, Slender Speedwell). VGFsf is replaced by plains grassy woodland (PGWOtv) on the alluvial plains at Heidelberg.

Most intact stand(s): small area relatively intact in south-eastern part of Yandell Reserve.

Wetland Formation (EVC 74) Sub-community WFeh **Definition:** Common Reed - Cumbungi - Tall Spike-sedge (emergent herbfield).

FERNS & NON-VASCULARS (5-10% cover) Azolla filiculoides Chara sp. SEDGES, LILIES, RUSHES & GRASSES (50-60% cover) Alisma plantago-aquatica Amphibromus nervosus Carex appressa & Carex inversa Eleocharis acuta Eleocharis sphacelata *Glyceria australis* Isolepis inundata & Juncus spp. Lachnagrostis filiformis Microlaena stipoides Phragmites australis Poa labillardierei Potamogeton ochreatus Schoenoplectus tabernaemontanii Schoenus tesquorum Triglochin procera & Triglochin striata Typha domingensis & T. orientalis **DICOT HERBS including DAISIES** (20-30% cover) Acaena novae-zelandiae Alternanthera denticulata Centella cordifolia Centipeda cunninghamii & Centipeda minima Crassula helmsii Elatine gratioloides *Epilobium hirtigerum* Euchiton involucratus Gratiola peruviana Lobelia anceps & Lobelia pedunculata Lythrum hyssopifolia *Myriophyllum crispatum* Persicaria decipiens & P. praetermissa Persicaria prostrata Pseudognaphalium luteoalbum **SUBSTRATE** (20-30% cover): *water/bare ground/mudflats*

Pacific Azolla Stonewort (non-vascular) Water Plantain Veined Swamp Wallaby-grass Tall Sedge & Knob Sedge Common Spike-sedge Tall Spike-sedge Australian Sweet-grass Swamp Club-sedge & rushes Common Blown-grass Weeping Grass **Common Reed** Common Tussock-grass Blunt Pondweed River Club-sedge Soft Bog-sedge Upright Water-ribbons & Streaked Arrowgrass Cumbungi Bidgee-widgee Lesser Joyweed Centella Common Sneezeweed & Spreading Sneezeweed Swamp Crassula Waterwort Hairy Willow-herb Star Cudweed Austral Brooklime Angled Lobelia & Matted Pratia Small Loosestrife Upright Water-milfoil Slender Knotweed & Spotted Knotweed Creeping Knotweed Jersey Cudweed

Conservation Status in Greater Melbourne: secure

Distribution: localised at Viewbank

Landform: wetland; fringes of dams

Vegetation: WFeh consists of aquatic and semi-aquatic vegetation zones growing in succession from permanent water through seasonally inundated shallows to banks. Emergent herbfield in deeper water is dominated by Tall Spike-sedge, Broad-leaf Cumbungi (T. orientalis) and Common Reed. Other aquatics include Upright Water-ribbons and Blunt Pondweed. Seasonally inundated shallows support Water Plantain, Tall Sedge, Common Spike-sedge, River Club-sedge, rushes and Narrow-leaf Cumbungi (T. domingensis). This is fringed on the banks by amphibious herbfield that colonises the receding water. This consists of Lesser Joyweed, Common Sneezeweed, Matted Pratia, Swamp Crassula, Purple Crassula, Waterwort, Upright Water-milfoil, Slender Knotweed and Spotted Knotweed, mostly riparian species from the Yarra. Each stand has differing dominants and many species are planted.

Significant flora - Reg Thr: Schoenus tesquorum.

Stand quality: partially intact (Viewbank).

5 ACKNOWLEDGEMENTS

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APPENDIX 1 Indigenous species that occur (or are likely to have occurred) in Banyule, their significance and their distribution across vegetation communities

KEY TO TABLE

Conservation significance of species in Victoria and Greater Melbourne	Status of native species in Banyule
<pre>The number of species in each category is given in brackets. VIC (VROTs). Species listed as rare or threatened in Victoria (NRE 1999). End endangered in Victoria (4) Vul vulnerable in Victoria (13) Dep depleted in Victoria (0) Rare rare in Victoria (9) K poorly known in Victoria (suspected of being endangered) (16) PThr adapted category for taxa (including undescribed taxa) for which there is supportive evidence for listing as rare or threatened in Victoria (3)</pre>	 observed over last fifteen years and assumed to currently survive; considered locally rare or threatened and may not survive beyond the short term unless appropriately managed: formerly recorded but not observed for over five years and currently presumed extinct; known only from an introduced population; no confirmed prior record but likely occurred as located in similar habitat in surrounding district (within 5 km of municipal boundary); no prior record for Banyule or district but known from similar habitat elsewhere in the lowlands of North East Melbourne (small selection of species only).
<i>GM GREATER MELBOURNE (Port Phillip Catchment)</i> Regionally significant flora are species listed as threatened in Greater Melbourne (CE and R1-R4 species).	Vegetation community annotations
CE critically endangered in Greater Melbourne (27)	Species are dealt with in order of their growth form as follows <i>Appendix Page</i>
R1 regionally endangered in Greater Melbourne (39)	Trees and Mistletoes2Tall Shrubs and Climbers2
R2 regionally vulnerable in Greater Melbourne (69)	Low Shrubs4Sedges Lilies and Rushes6
R3 regionally rare or restricted in Greater Melbourne (41)	Orchids 10 Grasses 12
R4 regionally depleted in Greater Melbourne (111)	Herbs 14 Daisies 20
L1 locally depleted or threatened in North East Melbourne (93)	Mosses, Liverworts and Hornworts 22
L2 locally rare or restricted in North East Melbourne (39)	The columns list occurrences of species in sub-communities. + means a species occurs in all sub-communities of a given community. Occurrences in brackets ()
L3 other locally significant flora in North East Melbourne (36)	are where a species has been planted in a sub-community where it is considered not to be indigenous. A few records from literature were excluded as they could not be
L4 other locally significant flora in Banyule (35)	verified. This copied document to be made available
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Scientific Name	Common Name	Signi ce	fican	Status	Vegetation communities and subcommunities																	
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
TREES and MISTLETOES																						
Amyema miquelii	Box Mistletoe		L4	1	+	+		+	dl		rm		+	+		sp ep tv		+			+	
Amyema pendula	Drooping Mistletoe			1	+	+	+	+	+		+		+	+		sp ep tv		+			+	
Amyema quandang var. quandang	Grey Mistletoe		L2	1				+			+		sy					es	sr			
Eucalyptus blakelyi	Blakely's Red Gum		R1	1m			+									tv					+	
Eucalyptus camaldulensis	River Red Gum			1			+	+			rr tr		sy			+		vc	+	+		
Eucalyptus goniocalyx	Long-leaf Box			1	+	+	+		dl		tm		+	+		sp ep tv		es ss			+	
Eucalyptus leucoxylon ssp. pruinosa	Yellow Gum		R4	1m	+													es				
Eucalyptus macrorhyncha	Red Stringybark			1	+	+	+		dl				+	+				es ss			+	
Eucalyptus melliodora	Yellow Box			1	+	+	+	+	+		rm tm		+	+		sp ep tv vp		+			+	
Eucalyptus nortonii	Silver Bundy		CE	4			+															
Eucalyptus obliqua	Messmate		L4	4					+					+							+	
Eucalyptus ovata	Swamp Gum			1				+	+		tm tr		v	+		+				+	+	
Eucalyptus polyanthemos ssp. vestita	Red Box			1		+			+					+							+	
Eucalyptus radiata	Narrow-leaf Peppermint		L4	1m					+		tm		sy	+				SS			+	
Eucalyptus rubida	Candlebark		L1	1m		hy			+		tm		sy	+		tv					+	
Eucalyptus X studleyensis	Studley Park Gum	Rare	R1	1m			+				tr					sp tv						
Eucalyptus viminalis ssp. pryoriana	Coast Manna Gum			2 (4)									sy									
Eucalyptus viminalis ssp. viminalis	Manna Gum			1					+		+			+				es ss	sr			
Eucalyptus viminalis ssp. viminalis X goniocalyx	Hill Manna Gum		R2	1m		hy	+						+	+	This	coppied YBr th	docum e sole p	ent t urpo	o be se o	ma f en	de av ablin	′ailat g
Eucalyptus yarraensis	Yarra Gum	K	R1	2 (4)				+					v		р Р А ђ	sits co part of a lanning lenddin purpo	nsidera a plann g and E men t n pse whi	tion ing p nvirc testen ch m opvri	and roce onm of b ay b ght	revi ess u ent A e us reac	ew a nder Act 1 ed fo h an	s the 987. r any y

Scientific Name	Common Name	SignificanStatusVegetation communities andce												d subcommunities									
		VIC GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F		
Muellerina eucalyptoides	Creeping Mistletoe		1		+		+			+		v	+		+		+			+			
TALL SHRUBS and CLIMBERS																							
Acacia dealbata	Silver Wattle		1				c	fc		+		sy	+		sp		+	+	+				
Acacia implexa	Lightwood	L1	1	+	+	+	+	dl		rr tm tr		+	+		+		+			+			
Acacia mearnsii	Black Wattle		1	+	+	+	+	+		+		+	+		+		+			+			
Acacia melanoxylon	Blackwood		1	+	+		+	+		+		+	+		+		+	+		+			
Acacia montana	Mallee Wattle	R1	2 (4)	+		+																	
Acacia myrtifolia	Myrtle Wattle	L1	4																	eh			
Acacia paradoxa	Hedge Wattle		1	+	+	+	+			tm tr		+	+		+		+						
Acacia pycnantha	Golden Wattle		1	+	+	+				tm		+	+		ep tv		+						
Acacia ulicifolia	Juniper Wattle	R2	4		hy	lh																	
Allocasuarina littoralis	Black Sheoke	L1	2 (3 4)			+				tm tr		+	+		ep sp tv		es ss						
Allocasuarina verticillata	Drooping Sheoke	R4	1m			+				tr					sp ep tv vp		es vc						
Banksia marginata (tree form)	Tree Banksia	CE	2 (4)			+						v			ep vp		+						
Billardiera mutabilis	Common Apple-berry		1	+				+		tm		+	+		sp		ss			+			
Bursaria spinosa	Sweet Bursaria		1	+	+	+	+	+		+		+	+		+		+	+		+			
Callistemon sieberi	River Bottlebrush	L1	1							+								+					
Calystegia sepium	Large Bindweed	L2	1							+	tm							+	+				
Calystegia marginata	Forest Bindweed	L1	1							tr													
Cassinia longifolia	Dogwood		1	+	+	+		dl		tm		+	+		ep tv		+			+			
Cassytha glabella	Slender Dodder-laurel	L4	1		+							sy	+		ep tv								
Cassytha melantha	Coarse Dodder-laurel		1	+	hy					+		+	+	This	çopied	docum	ept t	o be	фa	d <u>e</u> av	/ailal		
Cassytha pubescens	Downy Dodder-laurel	L4	4		+					+		sy				e sole p nsidera	urpo tion	ose o and	t en: revi	ablin ew a	8		
Clematis aristata	Mountain Clematis	L4	4					+						F	art of a	plann	ing p	roce	s s u	nder	[,] the		
														P Ajjoju	lanning eddcu purpo	and E nen t n se whic co	nviro Uesten chm opyri	onma as b ay b ght	ent A e us reac	Act 1 ed fo ch an	987. 1 any 9		

Scientific Name	Common Name	on Name Significan Status Cegetation communities and subcommunities and subcommun											communities								
		VIC GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Clematis decipiens	Slender Clematis		1	+	+	+	+	+		+		+	+		sp ep tv		+	sr	+	+	
Comesperma volubile	Love Creeper		1	+	+	+	+	+		tm		+	+		sp		SS			+	
Convolvulus angustissimus ssp. angustissimus	Pink Bindweed	R4	1	+	hy	+				tm		+	+		ep sp tv		es vc				
Exocarpos cupressiformis	Cherry Ballart		1	+	+	+	dl	+		+		+	+		sp ep tv		+	sr		+	
Glycine clandestina	Twining Glycine		1	+			+	+		tm tr		+	+		sp tv		+			+	
Gynatrix pulchella	Hemp Bush	L1	1				с	fc		+								+	+		
Hardenbergia violacea	Purple Coral-pea		1	+	+	+	+	dl		tm		+	+		ep sp tv vp		+			+	
Melicytus dentatus	Tree Violet	L1	1		+	+	+			+		+	+		+		+	+	+	+	
Kunzea leptospermoides	Yarra Burgan		1	+	+	+		+		+			+		sp ep tv		+	sr	+	+	
Leptospermum aff. scoparium	Black Tea-tree	L1	2 (3 4)					+		tm									+		
Leptospermum lanigerum	Woolly Tea-tree	R4	1m							tm								vc			
Leptospermum grandifolium	Mountain Tea-tree	R3	1m															sr	+		
Leptospermum obovatum	River Tea-tree	R1	1m							tr rr											
Lomatia myricoides	River Lomatia	R3	4														SS	sr			
Melaleuca ericifolia	Swamp Paperbark	L1	1				c	fc		+								sr	+		
Melaleuca parvistaminea	Rough-barked Honey-myrtle	CE	1m							tr											
Myrsine howittiana	Muttonwood	L2	1m							rr tr							ss	sr			
Ozothamnus ferrugineus	Tree Everlasting		1				+	+		+		+	+		sp		ss	+	+	+	
Pandorea pandorana	Wonga Vine	L2	4																	+	
Pomaderris aspera	Hazel Pomaderris	L4	1					fc		+			+				SS	sr	+		
Pomaderris racemosa	Cluster Pomaderris	R4	1m					+		rr rm tr				This	copied for the	docum e sole p	ent f ss urpo	o be sr se o	f en	de av ablin	7ailal 19
Pomaderris vacciniifolia	Round-leaf Pomaderris	Vul R1	4										+	P	art of a lanning	plann a plann g and E	ing p nvire	nn nn	ent /	ew a nder Act 1	• <u>the</u> 987.

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Scientific NameCommon NameSignifican ceStatusVegetation communities and su													and subcommunities										
		VIC GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F		
Prostanthera lasianthos	Victorian Christmas-bush	L4	1m					+		tm tr		sy	+		sp		ss	sr		+			
Solanum laciniatum	Large Kangaroo Apple	L2	1					fc		bb tm tr		sy	+		sp		SS	sr					
LOW SHRUBS																							
Acacia acinacea	Gold-dust Wattle	L1	1	+	+	+						+	+		ep tv		es vc						
Acacia aculeatissima	Thin-leaf Wattle	R4	4		hr								+										
Acacia brownii	Heath Wattle	R2	4		hr																		
Acacia genistifolia	Spreading Wattle		1	+	+	+		+		tm		+	+				es ss			+			
Acacia lanigera var. whanii	Woolly Wattle	R4	4	+																			
Acacia stricta	Hop Wattle	L3	4														SS						
Acacia verniciflua (common variant)	Common Varnish Wattle	R1	1m														es						
Acacia verticillata ssp. cephalantha	Prickly Moses	L4	1							rr rm										sf			
Acacia verticillata ssp. verticillata	Prickly Moses	L4	1				+	+					+										
Acrotriche serrulata	Honey-pots		1	+	+	+		+				+	+		tv		es ss			+			
Astroloma humifusum	Cranberry Heath		1	+	+	+						+	+		ep tv		es ss						
Atriplex semibaccata	Berry Saltbush	L1	1m									sy			ep vp vs		vc						
Billardiera scandens ssp. scandens	Velvet Apple-berry	Rare R4	1m	+	+	+											es						
Xerochrysum viscosum	Shiny Everlasting	R4	2 (4)	+	+	+											es						
Xerochrysum palustre	Swamp Everlasting	Vul R1	2 (3)											+									
Calocephalus citreus	Lemon Beauty-heads	L1	3 (5)											This	vs	docum	ent t	o he	ma	de av	zaila]		
Calocephalus lacteus	Milky Beauty-heads	R4	1m											+	for the	sole p	urpo	se o	fena	ablin	g		
Cassinia aculeata	Common Cassinia		1	+	+		dl	+		tr tm		+	+	F P Ajbp	sits con part of a lanning enddcan purpo	sidera plann and E nen t m se whi	tion ing p nviro testen ch ma	and roce onme of b ay b ay b	revi ss u ent A e uso reac	ew a nder Act 1 ed fo h an	s the 987. r any y		

Scientific Name Common Name Significan ce Status Vegetation communication											nunities and subcommunities											
		VIC GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F	
Cassinia arcuata	Drooping Cassinia		1	+	+	+				tr		+	+		ep tv		+					
Chrysocephalum apiculatum	Common Everlasting	R2	1m	+	hy	+									ep tv vp							
Chrysocephalum semipapposum (Mountain form)	Clustered Everlasting (Mountain form)	R2	1m		hr																	
Chrysocephalum semipapposum (Foothill form)	Clustered Everlasting (Foothill form)	R4	1m		hy	+									ер		es vc			eh		
Chrysocephalum semipapposum (Gully form)	Clustered Everlasting (Gully form)	L1	3 (4)					dl					+				SS			sf		
Chrysocephalum semipapposum (Plains form)	Clustered Everlasting (Plains form)	R1	1m												sp tv							
Coprosma quadrifida	Prickly Currant-bush		1				+	+		+		sy	+		sp		ss vc	+	+	+		
Correa glabra	Rock Correa	R4	1														+					
Correa reflexa	Common Correa	L1	1m	+	+	+						+	+				es ss			+		
Correa glabra X reflexa	Hybrid Correa	R4	1	+	hr																	
Daviesia latifolia	Hop Bitter-pea	R4	4												ep							
Daviesia leptophylla	Narrow-leaf Bitter-pea		1	+	+	+							+		tv		es ss			+		
Dillwynia cinerascens	Grey Parrot-pea		1	+	+	+		dl				+	+		tv		es ss			+		
Dillwynia phylicoides	Small-leaf Parrot-pea	R4	4	+													es					
Dillwynia sericea	Showy Parrot-pea	R4	1m		+																	
Dodonaea viscosa ssp. spatulata	Wedge-leaf Hop-bush	R3	1m	+						tm			+				+					
Enchylaena tomentosa	Ruby Saltbush	R4	1m														es					
														This	copied	docum	ent t	o be	ma	de av	zailal	
Epacris impressa	Common Heath	L4	4					+				sy	+		for the	e sole p nsidera	uspo	se o	f en:	ablin ow a	<u>.g</u>	
Exocarpos strictus	Pale-fruit Ballart	L2	2 (4)		<u> </u>					tr			+	I P AJ	art of a lanning erd@cxi purpo	and E ment m ose whi	ing p nviro Ustan ch m	onme og b ay b ght	ent A e usoreac	nder Act 1 ed fo h an	the 987. r any y	

Scientific Name	Common Name	Signi ce	ifican	Status						Veg	etatio	n comm	uniti	es ano	d subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Goodenia ovata	Hop Goodenia			1				+	+		+		v	+		sp		es ss	sr		+	
Grevillea latrobei	Melbourne Grevillea	PTh r	R1	2 (4)														+				
Hakea decurrens ssp. physocarpa	Bushy Needlewood		L1	2 (4)	+	+	+															
Indigofera australis	Austral Indigo		L1	1m	+	+	+		fc		tm tr		v	+		sp					+	
Leucopogon virgatus	Common Beard-heath		L4	1m	+	+															+	
Lissanthe strigosa	Peach Heath		R2	2 (4)	+	hy												es				
Melaleuca parvistaminia	Rough-bark Honey-myrtle		CE	2 (3 4)							+											
Myoporum insulare	Common Boobialla		R3	4			+						+									
Myoporum sp. 1	Sticky Boobialla		R3	1m														es vc				
Olearia lirata	Snow Daisy-bush		L4	1m					+		tm		sy	+		sp		SS	sr		+	
Olearia myrsinoides	Silky Daisy-bush		R4	4														SS			+	
Olearia ramulosa ssp. ramulosa	Twiggy Daisy-bush		R4	1m									sy					es				
Ozothamnus obcordatus	Grey Everlasting		L1	1m	+	+	+											es				
Pimelea curviflora	Curved Rice-flower		L1	1	+	+	+									ep tv vp		vc			+	
Pimelea glauca	Smooth Rice-flower		R1	4			+									vp		vc				
Pimelea linifolia	Slender Rice-flower		L1	1m		+												SS				
Platylobium obtusangulum	Common Flat-pea		L1	1m	+	+	+							+		ep sp					L	
Pomaderris prunifolia	Prunus Pomaderris		R4	1m	+	hy					tm			+				es ss				
Pultenaea daphnoides	Large-leaf Bush-pea		L2	3 (4)							tm							es				
Pultenaea gunnii	Golden Bush-pea		L4	1m		+			+				sy	+	This	copied	docum	es I esst t	o be	ma	+ de aי	vailal
Pultenaea pedunculata	Matted Bush-pea		R4	1m	+	+	+									for th	e sole p	uftsbo	se o	fen	ablin	1 g
Rhagodia candolleana ssp.	Seaberry Saltbush		R4	3 (4)			+						sy		A T A T C T	art of a lanning lenddca	a plann g and E men t m	ing p nvirc test o	nnu roce onmo of b	ent A	nder Nct 1 ed fo	<u>the</u> 987. r ang
																purpo	ose whi co	ch ma opyri	ay b ght	reac	h an	У

Scientific Name	Common Name	Signi ce	ifican	Status						Veg	getation	n commi	ınitie	es and	l subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
candolleana																						
Rubus parvifolius	Small-leaf Bramble			1				+	+		+		+	+		sp		+	+		+	
Sambucus gaudichaudiana	White Elderberry		L3	4							tm		sy	+		sp		ss vc		+		
Senecio odoratus	Scented Groundsel		R2	1m										+				ss				
Solanum aviculare	Kangaroo Apple		R4	1m				+			+		v	+		sp		+	sr	+	+	
Spyridium parvifolium	Dusty Miller		L3	4					fc									ss	sr			
Tetratheca ciliata	Pink-bells		L4	1m		+			fc					+				SS			+	
Teucrium corymbosum	Forest Germander		R3	2 (4)							tm							es vc				
Viminaria juncea	Golden Spray		R4	2 (3 4)				+											+	+		
FERNS																						
Adiantum aethiopicum	Common Maidenhair			1				+	+		+		+	+		sp		+	+	+	+	
Asplenium flabellifolium	Necklace Fern		L3	1				c	+		+		sy	+		sp		+	+	+	+	
Azolla filiculoides	Pacific Azolla		L2	1				c				dfah							+			+
Azolla pinnata	Ferny Azolla		R3	1								dfah										
Blechnum minus	Soft Water-fern		L1	1m				c	fc		tr rm rr								sr	+		
Blechnum nudum	Fishbone Water-fern		L3	1m					fc		rr rm								sr	+		
Calochlaena dubia	Common Ground-fern		L4	4					+		rm			+		sp		ss		+		
Cheilanthes austrotenuifolia	Green Rock-fern		L1	1m	+	+			+				+	+		sp		+			+	
Cheilanthes distans	Bristly Cloak-fern		R1	4														es vc				
Cheilanthes sieberi	Narrow Rock-fern		L1	1m		+	+						sy		This	ep vp copied	docum	es ent t	o be	ema	de av	ailal
Cyathea australis	Rough Tree-fern		L4	1m					+		rm			+		for the	e sole p nsidera	urpc ss	se o	ren:	tblin	\$
Doodia caudata	Small Rasp-fern		R4	1m				c	fc		tr rm				ll r	part of a	i plann	ing p	roce	ess u	nder	the
		I		1	1	1	1	1	1			1	1		' P	lanning	and E	nviro	onm	ent A	sct 1!	987.

Appendix The document must not be used for any purpose which may breach any copyright

Scientific Name	Common Name	Signi ce	fican	Status						Veg	etatior	n commu	unitio	es an	d subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
											rr											
Doodia australis	Common Rasp-fern		R4	1m					fc		bb			+				SS	sr			
Histiopteris incisa	Bat's Wing Fern		L3	4					fc											+		
Hypolepis rugosula	Ruddy Ground-fern		L3	1m					+		tr rm rr							SS	sr	+		
Marsilea drummondii	Common Nardoo		R2	2 (3 4)								ah										
Marsilea hirsuta	Short-fruit Nardoo		R1	3 (4)				c				ah										
Ophioglossum lusitanicum	Austral Adder's-tongue		R2	4		hr							sy	+							+	
Pellaea falcata var. falcata	Sickle Fern		R4	2 (4)					fc					+				ss vc		+		
Pleurosorus rutifolius	Blanket Fern		R2	4														es vc				
Polystichum proliferum	Mother Shield-fern		L4	1m					+		tm			+		sp		ss	sr		+	
Pteridium esculentum	Austral Bracken			1				+	+		+		+	+		sp		ss vc	sr	+	+	
Pteris tremula	Tender Brake		R4	1m					+		tr			+					sr			
SEDGES LILIES and RUSHES																						
Alisma plantago-aquatica	Water Plantain		L3	1				+	+		+				+				+			+
Aphelia gracilis	Slender Aphelia		R2	4						fm		fph	sy									
Aphelia pumilio	Dwarf Aphelia		R4	1m						fm	tm	fph	sy	+	+	vs						
Arthropodium milleflorum	Pale Vanilla-lily		L1	1m				dl	+		tm			+		vs		ss			+	
Arthropodium minus	Small Vanilla-lily		R2	4									+			vp		vc				
Arthropodium strictum	Chocolate Lily			1	+	+	+	+	+		tm tr		+	+		+		+			+	
Arthropodium sp. 3	Small Chocolate Lily	K	R1	4			+															+
Baumea arthrophylla	Fine Twig-sedge		R2	3 (4)				c				1			This	copied	docum	ent t	o be	ma	de av	7 <mark>aila</mark> l
Baumea articulata	Jointed Twig-sedge		R2	3 (4)							rm	as				its co	e sole p nsidera	urpo tion	se o and	t en revi	ablin ew a	<mark>\$</mark> .s
															A P	part of a lanning	a plann g and E	ıng p nvirc	roce nm	ess u ent A	nder Act 1	the 987.

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Scientific Name	Common Name	Signice	ifican	Status						Veg	etation	o comm	uniti	es an	d subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Baumea juncea	Bare Twig-sedge		R4	4							rm rr								vc			
Bolboschoenus caldwellii	Salt Club-sedge		R4	1											+				vc			
Bolboschoenus fluviatilis	Tall Club-sedge	K	R3	1m							rm								sr			
Bolboschoenus medianus	Marsh Club-sedge		R2	1				+	fc		rm rr	tm							+			
Bulbine bulbosa	Bulbine Lily		L1	1m		hr		dl	+				+	+		sp tv		es			+	
Bulbine semibarbata	Leek Lily		R2	4														ss				
Burchardia umbellata	Milkmaids			1	+	+	+				tm		+	+		+		es			+	
Caesia calliantha	Blue Grass-lily		R4	1m			+				tr			+		+					+	
Carex appressa	Tall Sedge			1				+	+	+	+	wvs			+				+	+	+	+
Carex breviculmis	Short-stem Sedge			1	+	+	+	dl	dl		tm tr		+	+		+		+			+	
Carex brownii	Stream Sedge		R1	1m				+	dl				v		+							
Carex chlorantha	Green-top Sedge	K	R1	5								fph								+		
Carex fascicularis	Tassel Sedge		R4	1m					fc		rm rr	wvs							sr			
Carex gaudichaudiana	Fern Sedge		R4	1							rr	wvs							sr	+		
Carex incomitata	Hillside Sedge		R2	4							tm		v	+		tv		vc			+	
Carex inversa	Common Sedge		L1	1				+	+	fm	tm tr	wvs fph	+		+	+		ss vc	vc	+	+	+
Carex iynx	Tussock Sedge		L1	1m				+	+	fm	tm	wvs	+	+		sp tv					+	
Carex polyantha	River Sedge		R3	1m															sr			
Carex tereticaulis	Hollow Sedge		R4	1				+		fm	tr				+	vs			vc			.,
Centrolepis aristata	Pointed Centrolepis		R4	4						fm	tm	fph	sy		Ins	for th	e sole p	urpo	o be se o	f en	de av ablin	vana 1g
Centrolepis strigosa	Hairy Centrolepis		L1	1						fm	tm tr	fph	+	+	+	t its co	nsidera	tion	and	revi	ew a	.s
Chamaescilla corymbosa	Blue Squill		L1	1m		hr									P P Th Appe	lanning lanning le docu	a plann g and E ment m	ng p nviro ust n	oroce	ent A	nder Act 1 ed fo	the <u>987.</u> r anj
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Scientific Name	Common Name	Signi ce	fican	Status						Veg	etation	ı commı	initie	es ano	d subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Cladium procerum	Leafy Twig-sedge		CE	4							rm	tm										
Cyperus gunnii	Flecked Flat-sedge		R2	1m								tm							sr			
Cyperus lucidus	Leafy Flat-sedge		R4	1m							rm rr	tm							sr	+		
Damasonium minus	Star-fruit		R2	5											+							
Dianella amoena	Matted Flax-lily	End	R2	1m			+						sy			+					+	
Dianella laevis	Pale Flax-lily		L1	1		hr		+	+		tm tr		+	+		+		+			+	
Dianella perfragrans	Arching Flax-lily	Vul	R1	4			+											es vc				
Dianella admixta	Black-anther Flax-lily			1	+	+	+		+				+	+		+		+			+	
Dianella tasmanica	Tasman Flax-lily		L3	4														SS				
Eleocharis acuta	Common Spike-sedge		L4	1				+	+		rm rr	fph wvs ah			+				vc			+
Eleocharis gracilis	Slender Spike-sedge		R1	1m									sy		+							
Eleocharis pusilla	Small Spike-sedge		R4	4											+	vs						
Eleocharis sphacelata	Tall Spike-sedge		L2	1								wvs as							vc			+
Ficinia nodosa	Knobby Club-sedge		L1	3 (4)				c			rr								vc			
Fimbristylis velata	Veiled Fringe-sedge	Rare	CE	4						bm		fph										
Gahnia radula	Thatch Saw-sedge		L4	1m					+		tm		+	+							+	
Hypoxis glabella var. glabella	Tiny Star		R2	1m									+	+		ep tv vp		es vc				
Hypoxis hygrometrica var. villosisepala	Hairy Weather-glass		R4	4				dl					sy		+	vs					+	
Hypoxis vaginata var. vaginata	Sheath Star		R4	4			+							+	This	vp		vc				الملنمي
Isolepis cernua ssp. cernua	Nodding Club-sedge		R4	1m				c	fc		rr				TIIIS	for the	e sole p	urpo	o be se ^c o	f en:	ablin	/anai 1g
Isolepis cernua ssp. platycarpa	Broad-fruit Club-sedge		L1	1m				dl	+		rm	fph			Г Р Ар ђ е	its cor part of a Planning padioxui purpo	nsidera plann g and E hent ha ose whi	tion ing p nviro ugst n ch ma opyri	and roce onme bt b ay b ght	revi :ss u ent A e us reac	ew a n der \ct 1 ed fo ch an	s the 987. r any y

Scientific Name	Common Name	Signi	ifican	Status						Ve	getatio	n comm	unitie	es and	d subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	P FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Isolepis fluitans	Floating Club-sedge		R4	1m								ah			+							
Isolepis hookeriana	Grassy Club-sedge		R4	1m				dl							+	vs						
Isolepis inundata	Swamp Club-sedge			1				+	+		+	ah			+				+	+	+	+
Isolepis marginata	Little Club-sedge			1	+	+	+						+			ep vp vs		+				
Isolepis producta	Nutty Club-sedge		R1	2 (3 4)								sah										
Juncus amabilis	Hollow Rush			1				+	+		+	wvs			+				+	+	+	+
Juncus australis	Austral Rush		L1	1				+	dl	+	+	tm fph wvs	L		+	vs						+
Juncus bufonius	Toad Rush			1				+	+	+	+	fph wvs	+		+	vs		vc	+	+	+	+
Juncus flavidus	Yellow Rush		R4	1m				+							+	vs						+
Juncus filicaulis	Thread Rush		R4	4												vs						+
Juncus gregiflorus	Green Rush			1				+	+		+	wvs			+				+	+	+	+
Juncus holoschoenus	Joint-leaf Rush			1				+	+		+	wvs			+	vs			+	+	+	+
Juncus homalocaulis	Wiry Rush		R4	1m									+			sp tv		vc				+
Juncus ingens	Giant Rush		R1	1m								tm										+
Juncus pallidus	Pale Rush			1				+	+	+	tm tr	fph	v			tv					+	+
Juncus pauciflorus	Loose-flower Rush		L2	1					+		+								+			+
Juncus planifolius	Broad-leaf Rush		L1	1				+	+	+		wvs fph			+				sr	+		+
Juncus prismatocarpus	Branching Rush		R1	4								ah wvs	8									+
Juncus procerus	Tall Rush		L2	1m				c			tr	tm							SI	÷		÷
Juncus radula	Hoary Rush		L1	1m											This co	pried de	ocumer	t to l	be m	ade	avai	lable
Juncus sarophorus	Broom Rush			1				+	+		+	wvs tm			+ 1	or the s ts consi	ole pui ideratio	pose on an	of e d re	nab viev	ling v as	+
		I				<u>.</u>	-	<u>.</u>					-		pan Pla Appe I	t of a p nning a docime ourpose	nd Env nd Env nt-mBs which copy	g pro ironi tgæot may vrigh	cess ment 1be u brea t	t Ac ised ach	ter th t 198' for a any	e 7. iny

Scientific Name	Common Name	Signi ce	ifican	Status						Veg	etatior	n comm	uniti	es and	subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Juncus subsecundus	Finger Rush			1				dl		fm	tm tr	fph	+		+	+		vc	sr			+
Juncus usitatus	Billabong Rush		R4	1m				c			rr				+				vc	+		+
Juncus vaginatus	Clustered Rush		R2	1m						fm		fph			+							+
Lemna disperma	Common Duckweed			1				c				dfah							+			
Lepidosperma gunnii	Slender Sword-sedge		L1	1m		hr	+															
Lepidosperma laterale	Variable Sword-sedge			1	+	+	+		+		+		+	+		sp ep tv		+	+	+	+	
Lomandra filiformis s.l.	Wattle Mat-rush			1	+	+	+	+	+		tm tr		+	+		+		+			+	
Lomandra longifolia ssp. longifolia	Spiny-headed Mat-rush			1	+			+	+	fm	+	fph	+	+		sp tv		+	+		+	
Lomandra micrantha	Small-flower Mat-rush		R1	4			+									ep vp		vc				
Lomandra nana	Dwarf Mat-rush		R2	1m		hy	+						sy			ep vp		es				
Luzula meridionalis s.l	Common Woodrush			1	+	+	+		+		tm tr		+	+		+		+			+	
Ottelia ovalifolia	Swamp Lily		R3	1m				с				ah							sr			
Potamogeton crispus	Curly Pondweed		L2	1				с			rr	sah							sr			
Potamogeton ochreatus	Blunt Pondweed		L2	1				с				sah							+			+
Potamogeton pectinatus	Fennel Pondweed		R3	4								sah							vc			
Potamogeton cheesemanii	Small-fruit Pondweed		R3	1m				+				ah			+							
Potamogeton tepperi	Furrowed Pondweed		R3	1m				+				ah			+							
Schoenoplectus tabernaemontani	River Club-sedge		L1	1				c	+		tr rm rr	tm							+			+
Schoenus apogon	Common Bog-sedge			1	+	+	+	+	+	fm	+	fph wvs	+	+	+	+		vc		+	+	
Schoenus maschalinus	Leafy Bog-sedge		R4	4					+			wvs							sr	+		
Schoenus tesquorum	Soft Bog-sedge		R4	1m						fm		fph			Ihis	copied for th	docum e sole n	ient t	o be se o	: ma of en:	de av ablir	7aila) 19
Spirodela polyrhiza	Thin Duckweed		R3	1								dfah				its co	nsidera	tion	and	revi	ew a	.s
															ր թ Ар թե	art of a lanning edoxui purpo	a plann g and E hent Pa ose whi co	ing p nvir(ngst n ch m opyri	onm onm b8 b ay b ght	ent A ent A e us reac	nder Act 1 st ed fo sh an	the 987. r ang y

Scientific Name	Common Name	Significan ce	Status						Veg	etatior	ı commı	uniti	es an	d subco	mmunit	ies					
		VIC GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Thysanotus patersonii	Twining Fringe-lily		1	+	+	+						+	+		ep tv		es ss				
Tricoryne elatior	Yellow Rush-lily		1	+	+	+	+	fc		tm tr		+	+		+		vc			+	
Triglochin procerum	Upright Water-ribbons	L3	1				+	+			ah			+				+			+
Triglochin procera (upright broad leaf form)	Common Water-ribbons	R3	1						bm		ah fph										+
Triglochin procera (floating narrow leaf variant)	Common Water-ribbons	R3	1															sr vc			+
Triglochin striata	Streaked Arrow-grass	L1	1				+	+	fm	tm tr	fph			+				vc	+	+	
Typha domingensis	Narrow-leaf Cumbungi	L3	1				+	+		+				+				+			+
Typha orientalis	Broad-leaf Cumbungi	L2	1m				c			rm								vc			+
Vallisneria americana	Ribbon-weed	R3	1m								sah							+			
Vallisneria nana	Eel-weed	R3	3 (5)								sah										
Wolffia australiana	Tiny Duckweed	R3	1				c				dfah							vc			
Wurmbea dioica	Common Early Nancy		1	+	+	+		dl				+	+		+		ss vc			+	
Xanthorrhoea minor	Small Grass-tree	L4	1m		hr															+	
ORCHIDS																					
Acianthus caudatus	Mayfly Orchid	R2	4		hr																
Acianthus pusillus	Mosquito Orchid	L1	1m	+	+			fc		tm		sy	+		sp		SS			+	
Caladenia amoena	Charming Spider-orchid	End CE	2 (4)	+																L	
Cyanicula caerulea	Blue Caladenia	R4	1m	+	+												es			L	
Caladenia carnea	Pink Fingers	L1	1m	+	+					rm tm		sy	+		ep tv		SS			+	
Caladenia catenata	White Caladenia	CE	1m		hr									This	copied	docum	ent t	o be	ma	de av	vaila
Caladenia clavigera	Plain-lip Spider-orchid	R1	2 (4)		hy								+		for th	e sole p	ourpo	se o	fen	ablin	ıg
Caladenia deformis	Blue Fairies	R1	2 (4)		hr										oart of a Planning	n sidera i plann g and E	ing p nvira	and roce	revi ss u ent A	e w a <u>nder</u> Act 1	.s <u>· the</u> 987.
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Scientific Name	Common Name	Signific ce	an Statı	IS					Veg	etatio	n comm	uniti	es an	d subco	mmunit	ies					
		VIC G	M Bany le	u BI	F BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Caladenia gracilis	Musky Caladenia	L	1m		+							sy	+				es				
Caladenia oenochila	Wine-lip Spider-orchid	Vul R	2 (4)		+								+								
Caladenia parva	Small Spider-orchid	R	4 1m	+	+							sy	+				es			+	
Caladenia praecox	Early Caladenia	R	4 1m		hr																
Caladenia pusilla	Tiny Caladenia	R	4 4		hr																
Caladenia rosella	Rosella Spider-orchid	End C	E 2 (4)		hy																
Caladenia tentaculata	Mantis Orchid	R	4 1m	+	+																
Calochilus paludosus	Red Beard-orchid	R	4 4		hr																
Calochilus robertsonii	Purplish Beard-orchid	L	1m	+	+							sy					es				
Chiloglottis reflexa	Autumn Bird-orchid	R	2 (4)							tm											
Chiloglottis trapeziformis	Dainty Bird-orchid	R	1 4										+								
Chiloglottis valida	Common Bird-orchid	L	3 2 (4)					+		tm		sy	+				ss			+	
Corybas dilatatus	Veined Helmet-orchid	L	1m		+					tm		sy	+		sp		ss			+	
Corybas fimbriatus	Fringed Helmet-orchid	Rare C	E 4									sy									
Corybas incurvus	Slaty Helmet-orchid	R	4 1m	+	+							sy	+				es				
Cyrtostylis reniformis	Gnat Orchid	R	4 1m	+	+								+								
Dipodium roseum	Rosy Hyacinth-orchid	L	1m	+	+							sy	+				es			+	
Diuris chryseopsis	Golden Moths	R	4 1m	+	+	+									ep tv vp						
Diuris chryseopsis X pardina	Hybrid Diuris	R	2 (4)		+																
Diuris orientis`	Wallflower Orchid	R	4 1m		+								+								
Diuris pardina	Leopard Orchid	L	1m	+	+							sy	+				es			+	
Diuris sulphurea	Tiger Orchid	L	1m	+	+												es				
Eriochilus cucullatus	Parson's Bands	L	1m	+	+							sy	+	This	aaniad	doour	ont t	o ho			أمانه
Corunastylis despectans	Sharp Midge-orchid	L	1m	+	hy									1 1115	for th	e sole p	urpo	se o	f en:	ablin	e 1
Glossodia major	Wax-lip Orchid	L	1m	+	+							sy	+		eitsco	nsidera	tion	and	revi	ew a	.\$
				I		1				-			-	ր թ Ap թե	bart of a lanning adoxui purpo	t plann g and E hent Pa ose whi co	ing p nviro uga n ch ma opyri	roce onme b5 b ay b ght	ent A e uso reac	nder Act 1 ed fo h an	the 987. r any y

Scientific Name	Common Name	Signi ce	ifican	Status						Veg	etatio	n comm	uniti	es an	d subco	mmunit	ties					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Leptoceras menziesii	Hare Orchid		L1	2 (4)	+	+			dl		tm		sy	+		sp		SS			+	
Microtis arenaria	Notched Onion-orchid		L3	4					fc					+		sp		SS				
Microtis parviflora	Slender Onion-orchid			1		+			dl		tm		+	+		sp tv		es vc			+	
Microtis unifolia	Common Onion-orchid			1		+	+				tm		+	+		+		vc			+	
Pterostylis sp. aff. striata	Striped Greenhood	Κ	R1	2 (4)	+	+																
Pterostylis alpina	Mountain Greenhood		L3	4		hr			dl					+				ss			+	
Pterostylis concinna	Trim Greenhood		R4	1m	+	+							sy	+				es				
Pterostylis cucullata	Leafy Greenhood	Vul	CE	4									sy									
Pterostylis curta	Blunt Greenhood		L1	1m	+	+					tm		sy	+				es ss			+	
Pterostylis cycnocephala	Swan Greenhood		CE	2 (4)	+						tm											
Pterostylis falcata	Large Sickle Greenhood		R1	2 (4)					fc													
Pterostylis foliata	Slender Greenhood		R2	2 (4)	+									+								
Pterostylis melagramma	Tall Greenhood			1	+	+			+		tm		+	+		+		+			+	
Pterostylis mutica	Midget Greenhood		CE	2 (4)														ss				
Pterostylis nana	Dwarf Greenhood		R4	1m	+	+							sy									
Pterostylis nutans	Nodding Greenhood			1	+	+			dl		tm		+	+		+		+			+	
Pterostylis parviflora	Tiny Greenhood		L1	1m	+	+							sy									
Pterostylis pedunculata	Maroon-hood			1	+	+			+		tm		+	+		+		+			+	
Pterostylis planulata	Grampians Rusty-hood	Rare	CE	2 (4)	+																	
Pterostylis sp. aff. plumosa	Woodland Plume-orchid	Vul	R1	2 (4)		+																
Pterostylis revoluta	Autumn Greenhood		R2	1m	+	+												es				
Pterostylis robusta	Robust Greenhood		CE	2 (4)	+																	
Pterostylis smaragdyna	Emerald-lip Greenhood	Rare	CE	1m	+	+									This	copied	docun	ent t	o be	ma	de av	/ailal
Pterostylis squamata	Rusty-hood		R4	1m	+	+										its co	nsidera	urpe tfðn	and	revi	ew a	s S
Pterostylis X toveyana	Mentone Greenhood	Vul	CE	2 (4)	+										p	oart of a	a plann	ing p	roce	ess u	nder	the
															P Ap ī ba	Tanning Adoxu purpo	g and E inent ha ose whi co	nviro ugst n ch m opyri	onmo 196 b ay b ght	ent A e use reac	et 1 ed fo h an	987. r any y

Scientific Name	Common Name	Signifi ce	ican	Status						Veg	etation	comm	initio	es an	d subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Thelymitra ixioides var. ixioides	Spotted Sun-orchid]	R4	4	+	+																
Thelymitra pauciflora s.s.	Slender Sun-orchid			1	+	+	+				tm		+	+		+		+				
Thelymitra brevifolia	Pepper-top Sun-orchid]	R4	1	+	+	+						+	+		ep tv vp					+	
Thelymitra arenaria	Forest Sun-orchid]	R4	?	+	hr							sy									
Thelymitra peniculata	Trim Sun-orchid]	R4	?									+			ep tv					eh	
Thelymitra rubra	Salmon Sun-orchid]	L1	1m		+							sy			ep vp						
Thelymitra X truncata	Short Sun-orchid]	R3	1m		hr																
Thelymitra juncifolia	Rush-leaf Sun-orchid]	R4	1m	+	hr																
GRASSES																						
Lachnagrostis aemula	Purplish Blown-grass]	L1	1		+		+					+	+		+		vc			+	
Lachnagrostis filiformis var. 1	Common Blown-grass			1				+	+		+		+	+	+	sp tv vs		vc	+	+	+	+
Amphibromus archeri	Pointed Swamp Wallaby- grass]	R1	4						fm		fph										
Amphibromus fluitans	River Swamp Wallaby-grass	K I	R1	1m								ah			+						. <u></u>	
Amphibromus nervosus	Veined Swamp Wallaby- grass]	R4	1m				c		fm		fph ah wvs			+				vc			+
Austrodanthonia auriculata	Lobed Wallaby-grass]	R4	4									sy			vp		vc				
Austrodanthonia caespitosa	Common Wallaby-grass]	L1	1	+	+	+			fm		fph	+			+		es vc				
Austrodanthonia carphoides	Short Wallaby-grass]	R4	4												vp		vc				
Austrodanthonia duttoniana	Brown-back Wallaby-grass]	L3	1m				+							+	vs						
Austrodanthonia eriantha	Hill Wallaby-grass			1	+	+							+	+		vp		es vc				
Austrodanthonia fulva	Copper-awn Wallaby-grass		L1	1	+	+	+						+	+	This	copied ep vs	docum	ent t	o be	ma	de av	'ailal o
Austrodanthonia geniculata	Kneed Wallaby-grass			1	+	+	+				tm tr		+	+	I	sitsepo atvtvøf a lanning	nsidera a plann g and E	ing p nviro	and roce	revi ss u ent A	ew a nder	5 s the 987.
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Scientific Name	Common Name	Sign ce	ifican	Status						Veg	etatior	n comm	uniti	es anc	l subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Austrodanthonia induta	Shiny Wallaby-grass	K	R2	1m		+										tv		es ss				
Austrodanthonia laevis	Smooth Wallaby-grass		L1	1		hr		+		fm		fph	+		+	+		ss			+	
Austrodanthonia penicillata	Slender Wallaby-grass			1	+	+		+	+		+		+	+		+		ss vc	+		+	
Austrodanthonia pilosa	Velvet Wallaby-grass			1	+	+	+		fc				sy	+		+		vc			+	
Austrodanthonia racemosa	Stiped Wallaby-grass			1	+	+	+	+	fc		+		+	+		+		+	+		+	
Austrodanthonia setacea	Bristly Wallaby-grass			1	+	+	+	+		fm	tr	fph	+	+		+		+				
Austrodanthonia tenuior	Purplish Wallaby-grass			1	+	+	+						+	+		ep		es ss			+	
Austrostipa bigeniculata	Kneed Spear-grass		L1	1m			+									vp		vc				
Austrostipa blackii	Crested Spear-grass		R2	4												tv						
Austrostipa curticoma	Short-crown Spear-grass		R4	1m			+									tv						
Austrostipa densiflora	Dense Spear-grass		R3	1														es ss				
Austrostipa elegantissima	Feather Spear-grass		R2	1m		hy												es				
Austrostipa mollis	Supple Spear-grass		L1	1	+	+	+						sy	+		ep		es ss				
Austrostipa nodosa	Knotty Spear-grass		R2	4			+									ep						
Austrostipa pubinodis	Tall Spear-grass		R4	1m	+								sy			ep						
Austrostipa rudis ssp. australis	Spear-grass	K	R2	1	+		+															
Austrostipa rudis ssp. nervosa	Veined Spear-grass		R4	1m					+				sy									
Austrostipa rudis ssp. rudis	Veined Spear-grass			1	+	+		+	dl		tm tr		+	+		+		+			+	
Austrostipa scabra ssp. falcata	Slender Spear-grass		R4	1		+							sy		This	ep vp copied	l docun	es ent t	o be	ema	de av	vailal
Austrostipa scabra ssp. scabra	Rough Spear-grass		R2	1m	+											ep its co	e sole p nsiderø	ourpo tion	ose o and	revi	ablin iew a	8 .s
Austrostipa semibarbata	Fibrous Spear-grass		R4	1m	+	hy	+								Ap jo t	paist of a Planning an dioxu purpo	a plann g and E inent Ma ose whi	ineg p nviro ngst n ch m	oroce onmo 108 b ay b	ess u ent A e us oreac	nder Act 1 ed fo ch an	the 987. or any

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Scientific Name	Common Name	Signi ce	fican	Status						Veg	etatior	n commu	initio	es an	d subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Bothriochloa macra	Red-leg Grass		R4	4			+											vc				
Chloris truncata	Windmill Grass		L1	1m												ep vs						
Deyeuxia quadriseta	Reed Bent-grass		L4	1		+	+		dl	fm		fph	+	+		+					+	
Dichanthium sericeum	Silky Blue-grass		R1	2 (4)			+											vc				
Dichelachne crinita	Long-hair Plume-grass		L3	1	+	+	+	+			tm		+	+		+		+			+	
Dichelachne hirtella	Hairy Plume-grass		R4	4		+												es				
Dichelachne inaequiglumis	Loose Plume-grass		R2	4		hr																
Dichelachne rara	Common Plume-grass			1		+			dl				+	+		sp		SS			+	
Dichelachne sieberiana	Plume-grass		L1	1m	+	+							sy	+		ep						
Distichlis distichophylla	Australian Salt-grass		L2	4				c							+				vc			
Echinopogon ovatus	Common Hedgehog-grass			1					+		rm tm tr		+	+		sp		SS	sr	+	+	
Elymus scaber	Common Wheat-grass			1	+	+	+		+		tm		+	+		+		+			+	
Eragrostis brownii	Common Love-grass		L4	1		hy		dl	dl		rm rr tm tr	wvs	+		+	+			+			
Glyceria australis	Australian Sweet-grass		L3	1				+	+	fm	+	ah fph wvs			+				+			+
Hemarthria uncinata	Mat Grass		L1	1m				+		fm	tm tr	fph	sy		+	+					+	
Imperata cylindrica	Blady Grass		R4	4					fc		tm		sy					vc				
Joycea pallida	Silvertop Wallaby-grass			1	+	+							sy	+				es				
Microlaena stipoides	Weeping Grass			1	+	+	+	+	+	fm	+	fph	+	+		+		+	+	+	+	+
Notodanthonia semiannularis	Wetland Wallaby-grass		R4	1m				+	+						F	VS		—	+	<u> </u>	<u> </u>	—
Panicum effusum	Hairy Panic		R2	4											This	oopied	docum	ient t	io be	e ma	de a	vaila
Pentapogon quadrifidus	Five-awned Spear-grass		L1	1				+					+	+	+	for th	e sole p nsidera	urpo ution	se o	of en		g
Phragmites australis	Common Reed			1				+	+		tr rm	tm			+ F	part of a	a plann	ing p	roce	ess u	inder	• the
			1	1	1						1	1	1		Ap jõt	Tanning Andioxu purpo	g and E Inent Pa ose whi co	nviro usst n chm opyri	onmo ib9 b ay b ight	ent A e us rea(Act 1 ed fo ch an	987. /r anj /y

Scientific Name	Common Name	Signi ce	fican	Status						Veg	etatior	n comm	uniti	es an	d subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
											rr											
Poa ensiformis	Sword Tussock-grass			1					+		+	wvs		+				SS	sr	+	+	
Poa labillardierei	Common Tussock-grass			1		hy	+	+	+	fm	+	fph	+	+	+	+		+	+		+	+
Poa morrisii	Soft Tussock-grass			1	+	hr			dl				+	+		sp ep tv		es ss			+	
Poa rodwayi	Velvet Tussock-grass		R4	1m			+							+		ep tv vp		es vc				
Poa sieberiana var. hirtella	Hairy Tussock-grass		R4	1m	+	hy							sy			ep tv vp		es ss				
Poa sieberiana var. sieberiana	Grey Tussock-grass			1	+	+	+		dl		tm tr		+	+		+		+			+	
Poa tenera	Slender Tussock-grass		L4	1m				dl	+		rm tm	wvs		+				ss	sr	+	+	
Tetrarrhena juncea	Forest Wire-grass		L4	4					+		tm							ss				
Themeda triandra	Kangaroo Grass			1	+	+	+	+	fc		rr tm tr		+	+		+		+			+	
Tripogon loliiformis	Rye Beetle-grass	Rare	R1	4														vc				
HERBS																						
Acaena agnipila	Hairy Sheep's Burr		L1	1		hy	+	dl			tm tr		+	+		+		ss vc				
Acaena echinata	Sheep's Burr			1	+	+	+	+	+		tm tr		+	+		+		+			+	
Acaena novae-zelandiae	Bidgee-widgee			1				+	+	fm	+	fph wvs	+	+	+	sp tv		+	+	+	+	+
Acaena ovina	Australian Sheep's Burr		L1	1		+		dl			tr		+	+		sp ep tv		ss vc			+	
Ajuga australis	Austral Bugle		L1	4					+		tm		+	+		sp tv		Ss		÷	÷	
Alternanthera denticulata	Lesser Joyweed		L1	1				c	fc	+	+	fph wvs			This	copied for th	l docun e sole p	nent t ourpo	o be ose o	e ma of en	de av ablir	vaflab Ig
Aphanes australiana	Australian Piert		R2	4											Ap p	its co part of a Planning an doxu purpo	nsidera a plann g and E inent Pa ose whi	ition ing p nviro ugst n ch m	and roca onm 20 b ay b	revi ess u ent A e us oreac	ew a nder Act 1 ed fo ch an	s the 987. or any y

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Scientific Name	Common Name	Sign ce	ifican	Status						Vege	etation	n commu	initie	es ano	d subco	mmuniti	es					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Apium prostratum ssp. prostratum	Sea Celery		R4	4				с	fc		rm rr								+			
Asperula conferta	Common Woodruff		L1	1			+	dl	dl		tm tr		+	+	+	+		Vc			+	
Asperula subsimplex	Water Woodruff		R1	3 (4)						bm		fph			+							
Asperula scoparia	Prickly Woodruff		L4	4					dl					+				Ss				
Bossiaea prostrata	Creeping Bossiaea			1	+	+	+		+		tm tr		+	+		+		Vc			+	
Brunonia australis	Blue Pincushion			1	+	+	+		+		tm			+		sp tv		es ss			+	
Calandrinia calyptrata	Pink Purslane		R3	4	+													+				
Callitriche brachycarpa	Short Water-starwort	Vul	R1	1m						fm		fph wvs			+				sr			
Callitriche cyclocarpa	Western Water-starwort	Vul	Х	1m								ah										
Callitriche muelleri	Round Water-starwort		R4	1m					+			wvs							sr	+		
Callitriche sonderi	Matted Water-starwort	К	R2	1m						bm		fph										
Carpobrotus modestus	Inland Pigface		R3	1m	+													Es				
Centella cordifolia	Centella		L3	1				+	+	+	+	wvs fph	v	+	+				+	+	+	+
Chenopodium glaucum	Glaucous Goosefoot		R3	4											+							
Chenopodium pumilio	Clammy Goosefoot		L3	1				+		+		fph wvs	+		+	vs		Vc				
Convolvulus angustissimus ssp. omnigracilis	Basalt Bindweed		R4	4												vs						
Crassula closiana	Stalked Crassula		R2	4		hy							sy					Es				
Crassula decumbens	Spreading Crassula			1	+	+	+			fm	rm rr	fph	sy		F	ep vs		+			+	
Crassula helmsii	Swamp Crassula			1				+	+		tr rm rr	ah wvs			+	for the its cor	aocum e sole p isidera	ent t urpo tion	o be se o and	f en: revi	ae av ablin ew a	7ana 1g ⁺ 1s
Crassula peduncularis	Purple Crassula		R4	1m						fm	tm	fph			p P Ap Te	aust of a lanning e docut purpo	plann and E nent Pa se whi	ing p nviro uset n ch ma	roce onme Øt b av b	ent A e uso e uso	nder Act 1 ed fo h an	• the 987, or an

Scientific Name	Common Name	Significa ce	n Status						Veg	etation	comm	ınitie	es anc	l subco	mmuniti	es					
		VIC GM	I Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Crassula sieberiana s.l	Austral Stonecrop		1	+	+	+						+			ep tv vp		+	vc			
Cynoglossum australe	Australian Hound's-tongue	R1	4			+											Ss vc				
Cynoglossum suaveolens	Sweet Hound's-tongue	L1	1m		+	+		fc		tm tr		+	+		+		+				
Daucus glochidiatus	Austral Carrot		1	+	+	+		+				+	+		ep vp		+			+	
Derwentia derwentiana	Derwent Speedwell	L2	4										+				Ss				
Desmodium gunnii	Southern Tick-trefoil	L4	1m					+		tm			+		sp		Ss		+	sf	
Desmodium varians	Slender Tick-trefoil	K R4	2 (4)		hy	+				tm		sy	+		tv vp		Vc			+	
Dichondra repens	Kidney-weed		1	+	+	+	+	+	fm	+	wvs	+	+	+	+		+	+	+	+	
Drosera macrantha	Climbing Sundew	R4	1m		hr												Ss				
Drosera peltata ssp. auriculata	Tall Sundew		1	+	+	+						+	+		+		+				
Drosera peltata ssp. peltata	Pale Sundew	L1	1				dl	dl	fm	tm tr		+			sp tv vs					+	
Drosera aberrans	Scented Sundew		1	+	+	+						+	+		ep tv vp		+				
Einadia hastata	Saloop Saltbush	R4	1m	+													Es				
Einadia nutans	Nodding Saltbush	L3	1	+	+	+		fc		tm tr		sy	+		+		+			. <u> </u>	
Einadia trigonos ssp. trigonos	Lax Goosefoot	R4	1m			+				tm tr		sy			tv		Ss				
Elatine gratioloides	Waterwort	L1	1				c		+	rr rm	fph sah			+		+		+			+
Epilobium billardierianum ssp. cinereum	Variable Willow-herb		1				+	+	+	+	wvs fph			+			ss vc	+	+		
Epilobium billardierianum ssp. billardierianum	Smooth Willow-herb	R4	1m				с	dl	fm		fph			This	copied	dogum	ont t	o ha	ma	do or	voile
Epilobium hirtigerum	Hairy Willow-herb		1				+		+	rm rr	wvs fph			+	for the	e sole p isidera	urpo tion	se o and	f ena revi	ablin ew a	18 18
Epilobium pallidiflorum	Showy Willow-herb	R1	5											+ p P	art of a lanning	plann and E	ng p nviro	roce	ss u ent A	nder Act 1	⁻ the 987.

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Scientific Name	Common Name	Signi ce	fican	Status						Veg	etation	i commi	uniti	es ano	l subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Erodium crinitum	Blue Heron's-bill	PDe p	R2	4												vp		vc				
Eryngium vesiculosum	Prickfoot		R4	2 (3 4)				+	+	fm					+							
Eryngium ovinum	Blue Devil		L1	4												vs						
Galium gaudichaudii	Rough Bedstraw			1	+	+	+						+	+				+			+	
Galium migrans	Wandering Bedstraw		R4	2 (4)												vp		ss vc				
Galium propinquum	Maori Bedstraw			1					+		tm tr			+		sp		ss	sr	+	sf	
Geranium sp. 14 (beardsellii)	Valley Crane's-bill	K	R2	1m					dl												+	
Geranium sp. 1 (carolinii)	Large-flower Crane's-bill	End	R1	4			lh															
Geranium sp. 2 (ciliocarpum)	Variable Crane's-bill			1	+	+	+		dl		tm tr		+	+		sp ep		+			+	
Geranium sp. 4 (gardneri)	Rough Crane's-bill		L3	1					fc		rm tm			sl		tv						
Geranium homeanum	Northern Crane's-bill		L3	4					fc		rm tm									+		
Geranium sp. 5 (inundatum)	Naked Crane's-bill		L1	1				+			rr tr		v		+	tv vs			vc			
Geranium sp. 3 (pallidiflorum)	Pale-flower Crane's-bill	Rare	R2	1m		hy	+															
Geranium potentilloides	Cinquefoil Crane's-bill		L4	1m					+					+				ss		+	+	
Geranium retrorsum	Grassland Crane's-bill		R2	4			+									vp		vc				
Geranium solanderi	Austral Crane's-bill	Vul	R1	1m												vs tv					+	
Glossostigma elatinoides	Small Mud-mat		L2	1							rr	sah							sr			
Glycine latrobeana	Clover Glycine	Vul	R1	2 (4)			+															
Glycine microphylla	Small-leaf Glycine			1					+		tm		+	+		ív		es ss		+	+	
Glycine tabacina	Variable Glycine		R2	4			+							+	This	copied YBr th	docum e sole n	ent t	o be se o	ma f en:	d e av ablir	7 <mark>aila</mark> l
Gonocarpus humilis	Shade Raspwort		L4	1					+		tm tr			+		sits co	nsidera	tion	and	revi	ew a	s .s
			1	1				1	1	1		1			р Р Ар р а	lanning adjocu purpo	a plann g and E hent Pa ose whi co	ing p nvirc uge n ch m opyri	oroce onm @3 b ay b ght	ent A ent A e us oreac	nder Act 1 ed fo ch an	the 987. r any y

Scientific Name	Common Name	Signi ce	ifican	Status						Veg	etation	n comm	uniti	es and	l subco	mmunit	ies							
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F		
Gonocarpus tetragynus	Common Raspwort			1	+	+	+	+	dl		tm tr		+	+		+		+			+			
Goodenia blackiana	Black's Goodenia		R4	1m	+	hr																		
Goodenia elongata	Lanky Goodenia		R4	4					+											+				
Goodenia humilis	Swamp Goodenia		R2	3 (4)								wvs												
Goodenia pinnatifida	Cut-leaf Goodenia		R1	4			+									vs								
Gratiola peruviana	Austral Brooklime		L3	1				+	+		rm rr	ah			+				+	+		+		
Gratiola pubescens	Glandular Brooklime		R2	4								ah			+									
Haloragis heterophylla	Varied Raspwort		L1	1m				+	+		tm tr	fph			+	tv vs					+			
Hovea linearis	Common Hovea			1	+	+			dl	fm			+	+							+			
Hydrocotyle callicarpa	Small Pennywort			1	+	+	+						sy					es						
Hydrocotyle foveolata	Yellow Pennywort			1	+	+			+		tm tr	fph	+	+	+	sp		+			+			
Hydrocotyle hirta	Hairy Pennywort			1					+	fm	rm rr			+					sr	+				
Hydrocotyle laxiflora	Stinking Pennywort			1	+	+	+		+		tm tr		+	+		sp ep tv		es ss			+			
Hydrocotyle pterocarpa	Wing Pennywort		R3	1m								wvs							sr					
Hydrocotyle sibthorpioides	Shining Pennywort		L3	1				c	+		tm tr	wvs			+				sr	+	+			
Hydrocotyle tripartita	Slender Pennywort		R2	4					dl			wvs							sr	+				
Hydrocotyle verticillata	Shield Pennywort		R2	1m								fph							+					
Hypericum gramineum	Small St John's Wort			1	+	+	+		+	fm	tm tr	fph	+	+	+	+		+			+			
Hypericum japonicum	Matted St John's Wort		R4	1m					+	fm		wvs fph							sr	+				
Isotoma fluviatilis ssp. australis	Swamp Isotome		L1	1				dl	dl	fm		fph wvs			+This	copied for th	docum e sole p	ent tourpo	to be ose o	ma f en	de av ablin	∕ailal g		
Kennedia prostrata	Running Postman		L1	1m	+	+	+			fm			This copied document to be made av for the sole purpose of enabling sy offsygonsideration and review as part of a planning process under Planning and Environment Act 19 Apple document Page rold be used for purpose which may breach any											
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Scientific Name	Common Name	Sign ce	ifican	Status						Veg	etatio	n commı	ınitie	es and	l subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Lepidium pseudotasmanicum	Shade Pepper-cress		R2	1m	+	hr	+	+										es			eh	
Lepidium pseudohyssopifolium	Floodplain Pepper-cress	K	CE	4							tr											
Levenhookia dubia	Hairy Stylewort		R4	4		+	+						sy					vc			eh	
Levenhookia sonderi	Slender Stylewort		R4	4		hy							sy								eh	
Lilaeopsis polyantha	Australian Liliaeopsis		R4	1m					fc			ah wvs			+				+	+		
Limosella australis	Austral Mudwort		R2	4								sah										
Linum marginale	Native Flax		L1	1m	+	+	+		dl					+	+	sp		ss vc				
Lobelia anceps	Angled Lobelia		L3	1				+	+		+	fph wvs			+				+	+		+
Lobelia gibbosa	Tall Lobelia		R2	1m	+	+				fm			sy									
Lobelia pratioides	Poison Pratia		R4	4												vs						
Lycopus australis	Australian Gipsywort		L2	1							+	wvs							sr	+		
Lythrum hyssopifolia	Small Loosestrife			1				+	+		+	fph wvs	v		+	tv vs			+	+		+
Lythrum salicaria	Purple Loosestrife		R2	1m				c		+		wvs			+				sr			
Mazus pumilio	Swamp Mazus		R4	1m					dl			wvs fph							sr	+		
Mentha australis	River Mint		R4	1m				+	+	fm	rm rr tr	wvs							+	+		
Mentha diemenica	Slender Mint		R1	1m				dl							+							
Montia fontana ssp. chondrosperma	Water Blinks		R2	4					dl			fph								+		
Myosotis australis	Austral Forget-me-not		R2	4	+	+				fm			sy	+				SS				
Myriophyllum caput-medusae	Coarse Water-milfoil		R1	2 (5)								ah										
Myriophyllum crispatum	Upright Water-milfoil		L2	1				+				ah wvs fph			+	for the	e sole p nsidera	urpo urpo tion	o be)se o and	f en revi	de av ablin ew a	railat g ⁺
Myriophyllum integrifolium	Tiny Water-milfoil		R1	2 (4)						+						oart of a Tanning	plann and E	ing p nvirc	roce	ess u	nder Act 1	the 987.
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Scientific Name	Common Name	Signi ce	ifican	Status						Veg	etatio	ı comm	uniti	es and	l subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Myriophyllum salsugineum	Lake Water-milfoil		R3	5															vc			
Myriophyllum simulans	Amphibious Water-milfoil		R4	4								ah					+		sr			
Myriophyllum verrucosum	Red Water-milfoil		R3	1								ah							sr			
Neopaxia australasica	White Purslane		R4	1m				+				ah			+		+		vc	+		
Opercularia ovata	Broad-leaf Stinkweed		L1	1			+				tr		+	+		tv					+	
Opercularia varia	Variable Stinkweed			1	+	+	+		dl		tm		+	+		ep tv		es ss			+	
Oxalis corniculata s.l	Yellow Wood-sorrel			1				+	+		+			+	+							
Oxalis exilis	Shady Wood-sorrel			1				+	+		rm rr	wvs		+		sp		SS	sr	+		
Oxalis perennans	Grassland Wood-sorrel			1	+	+	+				tm tr		+	+	+	+		es vc	vc		+	
Oxalis radicosa	Stout-rooted Wood-sorrel		R4	4			+									vp		vc				
Parietaria debilis	Shade Pellitory		R2	4														ss vc				
Pelargonium australe	Austral Stork's-bill		R4	1m							tm tr							+				
Pelargonium inodorum	Kopata		L1	4					fc		tm tr		sy					es ss			+	
Pelargonium rodneyanum	Magenta Stork's-bill		R2	4														vc				
Persicaria decipiens	Slender Knotweed			1				+	+		+	wvs fph			+				+	+		+
Persicaria hydropiper	Water-pepper		L2	1				c	fc	fm	tr rm rr	fph					+		+	+		
Persicaria lapathifolia	Pale Knotweed		L2	1				+		+	tr rr	wvs fph					+		sr	+		
Persicaria praetermissa	Spotted Knotweed		L3	1				+	fc	+	+	fph wvs			This	copied for th	l docun e sole p	nent t ourpo	:o-be ose o	e ma of en	de av ablin	7 <mark>ai</mark> lal 18
Persicaria prostrata	Creeping Knotweed		L3	1						bm	+	wvs			⊢ ₽ Ap j5 ŧ	its co part of a Planning padioxu purpo	nsidera a plann g and E fnent fa ose whi	ition ing p nviro ngst n ch m opvri	and roce onm 26 b ay b ght	revi ess u ent A e us reac	ew a nder Act 1 ed fo ch an	s the 987. r any y

Scientific Name	Common Name	Sign ce	ifican	Status						Veg	etatio	n commi	unitio	es ano	l subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
												fph										
Persicaria subsessilis	Hairy Knotweed		L2	1					fc		+	wvs fph							sr	+		
Phyllangium divergens	Wiry Mitrewort		R2	4		+				bm			sy									
Pimelea humilis	Common Rice-flower			1	+	+	+				tm tr	•	+	+		+		+			+	
Plantago debilis	Shade Plantain		L3	1m					+		rm tm			+		sp		SS	sr	+	sf	
Plantago gaudichaudii	Narrow Plantain		R2	1m				dl							+	vs						
Plantago hispida	Hairy Plantain		CE	4														vc				
Plantago varia	Variable Plantain		L4	1	+	+	+				tm tr	•	+	+		+		+			+	
Polygonum plebeium	Small Knotweed		CE	1m								fph										
Poranthera microphylla	Small Poranthera			1	+	+	+	dl	+	bm	tm tr		+	+		+		+			+	
Portulaca oleracea	Common Purslane			1				+			tm tr		v			+		vc				
Lobelia pedunculata	Matted Pratia		R4	1m					+			wvs			+		+		+			+
Ptilotus spathulatus	Pussy-tails		R2	4												vp						
Ranunculus amphitrichus	Small River Buttercup		R2	1m					fc			sah							sr	+		
Ranunculus glabrifolius	Shining Buttercup		R4	4					+											+		
Ranunculus inundatus	River Buttercup		R2	1				dl				ah			+		+					
Ranunculus lappaceus	Australian Buttercup		L3	1m					+		tm		+	+		sp tv vs		SS			+	
Ranunculus papulentis	Large River Buttercup	K	R1	3 (4)								wvs			+							
Ranunculus pumilio	Fan-leaf Buttercup		R4	4					+	bm	tm		v							+	sf	
Ranunculus sessiliflorus	Annual Buttercup		L3	1m				dl	+		tm tr	•	sy	+		sp		SS	sr	+	+	
Rorippa laciniata	Jagged Bitter-cress		R1	5								fph			This	copied	docun	ient t	o be	mac	le av	'ailat o
Rumex bidens	Mud Dock		R4	1m				+		bm	tr	tm wvs			+	its co art of a	ns i dera a plann	ing p	and roce	revi ess u	ew a nder	s the
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Scientific Name	Common Name	Significan ce	Status						Veg	etatior	ı commı	unitie	es and	l subco	PGW O PSW E RE S R 									
		VIC GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F			
Rumex brownii	Slender Dock		1				+	+		+		+	+	+	+		+	+	+	+				
Rumex dumosus	Wiry Dock	L1	1m				+							+	vp									
Samolus repens	Creeping Brookweed	L2	4															vc						
Scutellaria humilis	Dwarf Skullcap	R2	4							tr							ss vc							
Sebaea ovata	Yellow Sebaea	L1	4		+			dl				+	+		sp tv vp		vc			+				
Selliera radicans	Shiny Swamp-mat	R4	4				c							+	vs			vc						
Stackhousia monogyna	Creamy Candles	L1	1m		+					tm		+	+		sp tv vp		SS			+				
Stackhousia subterranea	Plains Stackhousia	R1	4			+																		
Stellaria angustifolia	Swamp Starwort	R1	1m													+								
Stellaria caespitosa	Matted Starwort	R2	4								fph tm							sr						
Stellaria flaccida	Forest Starwort	L4	4						bm		wvs						ss		+					
Stellaria multiflora	Rayless Starwort	R2	4	+													es							
Stellaria pungens	Prickly Starwort		1					fc		tm			+		sp		+			sf				
Stylidium graminifolium	Grass Trigger-plant	R4	1m	+	+	+						+			sp ep tv vp		+			+				
Stylidium armeria	Common Trigger-plant	L1	5										+				SS							
Urtica incisa	Scrub Nettle	L3	1					fc		+	wvs (tm)							sr	+					
Utricularia australis	Yellow Bladderwort	R3	1m								sah													
Velleia paradoxa	Spur Velleia	R2	1m	+	hy	+									ep tv vp					eh				
Veronica calycina	Hairy Speedwell	L4	4					+					+	This	copied	docum	esst t	o be	ma	def av	ailal			
Veronica gracilis	Slender Speedwell	L1	1	+	hy	+	+	+		tm tr		+	+	+	for the	e sole p	urpo yc	se o	f en	ablin	g			
Veronica plebeia	Trailing Speedwell	L3	1	+	+	+	dl	+		tm tr		+	+	F P	aspt of a lanning	plann and E	ing p nviro	roce	ss u	ew a nder Act 1	the 987.			
														Ap p a	na dip <u>c</u> ui purpo	hent ha se whic co	ust n ch ma pyri	208 b ay b ght	e us reac	ed fo h an	r any y			

Scientific Name	Common Name	Signi ce	ifican	Status						Veg	etatio	n commi	ınitie	es and	l subco	mmunit	ies					
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Villarsia reniformis	Running Marsh-flower		R2	2 (3 4)								ah							vc			
Viola betonicifolia	Showy Violet		R4	4										+							+	
Viola hederacea	Ivy-leaf Violet			1	+	+	+	+	+		tm tr		+	+		+		+	+	+	+	
Wahlenbergia communis	Tufted Bluebell		R4	1m			+									ep tv vp vs					eh	
Wahlenbergia gracilenta	Annual Bluebell			1	+	+							sy			ep vp		es vc				
Wahlenbergia gracilis	Sprawling Bluebell			1	+	+	+	+	+		tm tr	•	+	+	+	+		+	+		+	
Wahlenbergia graniticola	Granite Bluebell		L1	1m	+	+																
Wahlenbergia luteola	Yellowish Bluebell		R4	1m	+											ep tv vp		es vc				
Wahlenbergia multicaulis	Many-stemmed Bluebell		R4	1m			+	+	dl				+		+	tv vs					eh	
Wahlenbergia stricta	Tall Bluebell			1m		+			+				+	+		sp		SS			+	
DAISIES																						
Allittia cardiocarpa	Hinge-fruit Daisy		R2	4											+							
Allittia uliginosa	Small Swamp-daisy		R2	4	+	hy															eh	
Brachyscome decipiens	Field Daisy		R1	4										+							+	
Brachyscome diversifolia	Tall Daisy		R2	1m										+				ss				
Brachyscome multifida	Cut-leaf Daisy		R4	1	+													es ss				
Brachyscome perpusilla	Rayless Daisy		R2	4	+	+							sy									
Calotis scabiosifolia var. integrifolia	Rough Burr-daisy		CE	2 (4)		hr															eh	
Calotis scapigera	Tufted Burr-daisy		R1	3 (4)											F	VS						
Centipeda cunninghamii	Common Sneezeweed		R4	1				+	fc	+	tr rr	fph			This	copied	docum	nent t	o-be	mac	de av	'aflab'
Centipeda minima	Spreading Sneezeweed		R4	1						+	tr	fph				for the	e sole p	urpo	ise of	fena	tblin	g _+
Centipeda elatinoides	Elatine Sneezeweed		R4	1m					dl			wvs			F P	part of a Planning	plann a plann and E	ing p nviro	and rðce onme	revi ss u nt A	ew as nder Act 1!	s the 987.
															Ap pt	purpo	nent ha se whi co	ugst n ch m opyri	29 be ay bi ght	e use reac	ed for h ang	r any y

Scientific Name	entific Name Common Name Significan communities ce										es and	id subcommunities										
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Cotula australis	Common Cotula			1	+	+	+						+	+		ep tv vp		+			+	
Craspedia paludicola	Swamp Billy-buttons	Vul	R1	3 (5)											+							
Craspedia variabilis	Variable Billy-buttons		R2	4										+		vp		ss				
Craspedia sp. aff. variabilis	Plains Billy Buttons	PTh r	R1	4										+	+	vs		SS			+	
Cymbonotus lawsonianus	Bear's-ears	Rare	CE	2 (4)														es				
Cymbonotus preissianus	Austral Bear's-ears		L3	1m					+		tm		+	+		sp		ss			+	
Euchiton collinus	Creeping Cudweed			1	+	+	+		+		tm tr		+	+		+		+			+	
Euchiton involucratus	Star Cudweed			1				+	+	+	+	wvs fph	v	+	+	sp vs		+	+	+		+
Euchiton sphaericus	Annual Cudweed		L3	1	+	+	+						+			ep		es				
Gnaphalium indutum	Tiny Cudweed		L1	1m	+	+			fc				sy					es vc				
Helichrysum sp. aff. rutidolepis	Pale Swamp Everlasting	Vul	R1	1m											+							
Helichrysum scorpioides	Button Everlasting		L4	1	+	+			dl					+				ss			+	
Hyalosperma demissum	Moss Sunray		R2	4		hy												es				
Isoetopsis graminifolia	Grass Cushion		R2	4		hy							sy			vp		es				
Lagenifera gracilis	Slender Bottle-daisy			1		+						wvs	sy	+				ss				
Lagenifera huegelii	Coarse Bottle-daisy		R2	1m	+	+															eh	
Lagenifera stipitata	Common Bottle-daisy			1					fc		tm		+	+		vp		ss		+		
Leptinella reptans	Creeping Cotula		R4	4				c											+			
Leptorhynchos squamatus	Scaly Buttons		L1	1m		+	+				tm tr		+	+		÷		÷			÷	
Leptorhynchos tenuifolius	Wiry Buttons		L1	1	+	+	+								This	୧୦୦୦ YBr th	docum e sole p	efft t urpo	o be se o	ma f en:	d <mark>e</mark> hav ablin	zailal g
Leucochrysum albicans	Hoary Sunray		R4	1m	+	+	+								Г Р Ар Ђ ł	vits co part of a lanning nadiocu purpo	nsidera a plann g and E inent Pa ose whic co	tion ing p nvirc use n ch m opyri	and roce onmo 30 b ay b ght	revi ess u ent A e us oreac	ew a nder Act 1 ed fo ch an	s the 987. r any y

Scientific Name	Common Name	amon Name Significan Status Ce Vegetation communities and subcommunities																				
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Microseris sp. 3	Foothill Yam-daisy		L1	1m	+	+								+							+	
Microseris sp. 1	Plains Yam-daisy	Vul	CE	3 (5)											+							-
Millotia tenuifolia	Soft Millotia		R2	1m	+	+												es				-
Podolepis jaceoides	Showy Podolepis		R2	2 (4)										+		vs		ss				-
Pseudognaphalium luteoalbum	Jersey Cudweed			1				+		+	+	fph	sy		+							+
Senecio bathurstianus	Hill Fireweed		R3	4	+													es vc				
Senecio biserratus	Jagged Fireweed		R4	1m			+			bm	tr	fph wvs	sy			ep sp						
Senecio campylocarpus	Floodplain Fireweed	K	R2	3 (4)								wvs			+	tv						
Senecio glomeratus	Annual Fireweed			1		hr		+	+		tm tr		+	+		sp tv		SS			+	
Senecio hispidulus s.s.	Rough Fireweed			1	+	+	+		+		tm tr		+	+		sp ep tv		+			+	
Senecio minimus	Shrubby Fireweed			1				+	+	+	+	wvs fph	sy	+		sp		SS	+	+	+	
Senecio prenanthoides	Beaked Fireweed			1m	+	+								+							+	
Senecio runcinifolius	Tall Fireweed		CE	4							tr										+	
Senecio squarrosus	Leafy Fireweed		R1	1m							tr										+	
Senecio quadridentatus	Cotton Fireweed			1	+	+	+			+	tm tr	fph	+	+		+		+			+	
Senecio tenuiflorus	Narrow Groundsel			1	+	+	+				tm tr		+	+		ep tv		+	sr		+	
Sigesbeckia orientalis	Indian Weed		L2	5					fc											+		
Siloxerus multiflorus	Small Wrinklewort		R4	4	+	hy							sy									
Solenogyne dominii	Smooth Solenogyne		L1	1	+	+	+	dl	dl				+	+		÷		÷			+	<u> </u>
Solenogyne gunnii	Hairy Solenogyne		R4	4				dl	fc		tm		+	+	This	୧୦୦୦ YBr the	docum e sole p	ent t ourpo	o be se o	ma f en	de av ablin	∕ailal g
Stuartina muelleri	Spoon Cudweed		L1	1	+	+							sy		l F	its consideration and review as part of a planning process under th						
		_					_						_		Ap pa	Tanning Adoxui purpo	and E hent Pa se whi co	nvirā ust n ch ma opyri	onme ot b ay b ght	ent 7 e us reac	Act 1 ed fo ch an	987. r any y

Scientific Name	Common Name	Signi ce	ifican	Status	Status Vegetation communities and subcommunities																	
		VIC	GM	Banyu le	BIF	BS W	B W	CG W	CH W	FP H	FR W	FWA	G W	HF F	PGW E	PGW O	PSW E	RE S	R S	SS	VG F	W F
Triptilodiscus pygmaeus	Common Sunray		R4	4		hy	+						sy			ep vp vs		vc				
Vittadinia cuneata var. cuneata	Fuzzy New Holland Daisy		R2	4			+											es vc				
Vittadinia muelleri	Narrow-leaf New Holland Daisy		R2	1m	+	+										ep vp						
MOSSES																						
Drepanocladus aduncus	Hook moss		R3	1m								tm										
LIVERWORTS																						
Riccia bifurca	Riccia		L1	1							rr	sah fph										eh
Riccia duplex	Floating Crystalwort			1m								dfah										
Ricciocarpos natans	Fringed heartwort		R3	1						bm		dfah fph										
HORNWORTS																						
Ceratophyllum demersum	Common Hornwort	Κ	R3	1m								sah										

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