
FLORA AND VEGETATION STUDIES

GNANGARA MOUND

STAGE 1

DRAFT

PART A – REPORT AND APPENDICES

Prepared for:

**Water and Rivers Commission
&
Water Corporation**

Prepared by:

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1. SUMMARY

Mattiske Consulting Pty Ltd was commissioned to integrate the data on flora and vegetation on the northern part of Gnangara Mound utilizing previous studies in the area. Historically, the authors have been involved with flora and vegetation studies on the northern Swan Coastal Plain since 1976, largely for the Water Authority of Western Australia and the Water and Rivers Commission (E.M. Mattiske and Associates 1982, 1985, 1988, 1989, 1992 and 1995; Mattiske Consulting Pty Ltd 1997 and 2000). Other data was extracted from the earlier work of Gibson and the Department of Environmental Protection.

Data sets from previous studies were sorted and prepared for data integration into the database for Stages 1 and 3. A further 140 additional sites were selected, established and recorded in the Stage 1 area. The 140 sites were selected using the aerial photograph mosaics for the area, which also included the location of all Gibson *et al.* (1994) sites (as supplied by the Department of Conservation and Land Management), the location of previously established vegetation monitoring sites by Mattiske Consulting for the Water and Rivers Commission, and the location of the bores (monitoring and production bores as supplied by the Water Corporation and the Water and Rivers Commission). The 140 additional sites were recorded in the spring months of 2001, between the 4th September and the 22nd of October 2002.

A total of 717 vascular plant taxa from 80 plant families and 273 genera were recorded within the wider project area. Of these, 78 taxa were introduced plant taxa.

A search of potential Rare and Priority species was undertaken by accessing the database as held by the Department of Conservation and Land Management (2002). This database search extended beyond the immediate survey area to place the flora values into a local and regional context. As a result of this database search some eight Declared Rare Flora species (as gazetted under the Wildlife Conservation Act 1950), two Priority 1 species, six Priority 2 species, eighteen Priority 3 species and ten Priority 4 species (as listed by the Department of Conservation and Land Management (2002) were recognised as potentially occurring in the wider area on the Gnangara Mound. Of the latter species, four of the Declared Rare Flora species are listed as Endangered and four of the Declared Rare Flora species are listed as Vulnerable under the Environmental Protection and Biodiversity Conservation Act (1999).

In the specific data collected within the Stage 1 area, no declared rare flora pursuant to Subsection 2 of Section 23F of the Wildlife Conservation Act (1950) and listed by the Department of Conservation and Land Management (2002) were located during the survey.

No endangered or vulnerable species, pursuant to Schedule 1 of s179 of the Environmental Protection and Biodiversity Conservation Act (1999) (Environment Australia, 2002) were located during the survey work in the Stage 1 area.

14 Priority Flora species pursuant to Subsection 2 of Section 23F of the Wildlife Conservation Act (1950) and listed by the Department of Conservation and Land Management (2002) was located during the survey in the Stage 1 area.

Four ecological communities were initially listed as Critically Endangered by English and Blyth (1997). These ecological communities are listed as threatened under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) have been recorded within the wider Gnangara Mound area and therefore potentially occur within the future staged flora and vegetation mapping areas. These communities occur on the eastern or western fringes of the project area:

1. Aquatic Root Mat Community in Caves of the Swan Coastal Plain
2. Assemblages of plants and invertebrate animals of tumulus (organic mound) springs of the Swan Coastal Plain
3. Shrublands and Woodlands on Muchea Limestone of the Swan Coastal Plain
4. Shrublands and Woodlands on Perth to Gingin Ironstone (Perth to Gingin ironstone association) of the Swan Coastal Plain

In addition, a range of vegetation communities were highlighted as being potentially significant as a result of their restricted occurrence, the degree of disturbance in some communities or the likely changes in spatial distribution as a result of continued drought conditions on the Gnangara Mound. The heath and shrubland communities on the shallow limestone outcrops are unlikely to be influenced by any changes in groundwater, although changes in seasonal and annual rainfall will affect their condition and health. The communities that occur on the lower lying flats and swamps are already under stress, primarily as a result of the series of drier rainfall years. The latter is reflected in the trend from Woodlands of *Banksia littoralis* and *Eucalyptus rudis* on areas such as Tick Flat, which are well beyond any groundwater extraction areas. The condition of some of these damplands is poor in some areas, with the loss of older trees that have not tolerated the changes in local soil moisture levels since the 1960's. The vegetation in the wetlands and damplands on the eastern and northern sides of the Gnangara Mound are generally healthier than the western and southern areas of the Mound. The latter pattern is consistent with the groundwater levels for these respective areas.

Hedde *et al.* (1980) defined fourteen vegetation complexes for the wider Gnangara Mound area and 9 of these vegetation complexes occurred in the Stage 1 project area. The vegetation complexes within the current Stage 1 area, on the Quindalup, Spearwood and Bassendean dune systems are relatively well represented in either State Forest areas or conservation reserves within the northern Swan Coastal Plain. The less well represented vegetation complexes occur in Stage 2 on the eastern fringes of the Bassendean dune systems on the interface between the dune systems and the Darling Ranges and Dandaragan Plateau.

A total of 25 site-vegetation types, based on the system developed by Havel (1968) for the northern Swan Coastal Plain were defined for the Gnangara Mound project area. These communities can be related to underlying soil and site conditions on the respective Spearwood and Bassendean dune systems as defined by Havel (1968). The 25 site-vegetation types were grouped into 8 structural formations within the Gnangara project area. These structural formations ranged from closed heaths, open heaths, shrublands, low open woodlands, low woodlands, woodlands and open forests.

The significance of seasonal soil moisture levels and underlying site conditions such as limestone outcropping and degree of leaching in the surface sandy soils are reflected in the local dominance of species and keystone species. The latter reflects the need to expand the mapping beyond the key structural components to include indicator or keystone species that reflect the site conditions. For example, one could utilize key mapping units, key species which occur in these mapping units to define vegetation communities which have been largely cleared on the Gnangara Mound (e.g. B2 – Tuart woodlands), or one could review the moist soil indicators, such as *Banksia littoralis*, *Eucalyptus rudis*, *Hypocalymma angustifolium* and species of *Melaleuca*, which occur in the site-vegetation types J and K series to reflect potential species that could be affected by further drought conditions on the Gnangara Mound.

2. INTRODUCTION

2.1. Background Information

Mattiske Consulting Pty Ltd was commissioned in September 2001 by the Water and Rivers Commission and the Water Corporation to integrate the data available on the flora and vegetation for the Gngangara Mound (Stages 1 to 3) and to map the vegetation on the Stage 1 area of the Gngangara Mound (see Figure 1 and attached vegetation maps).

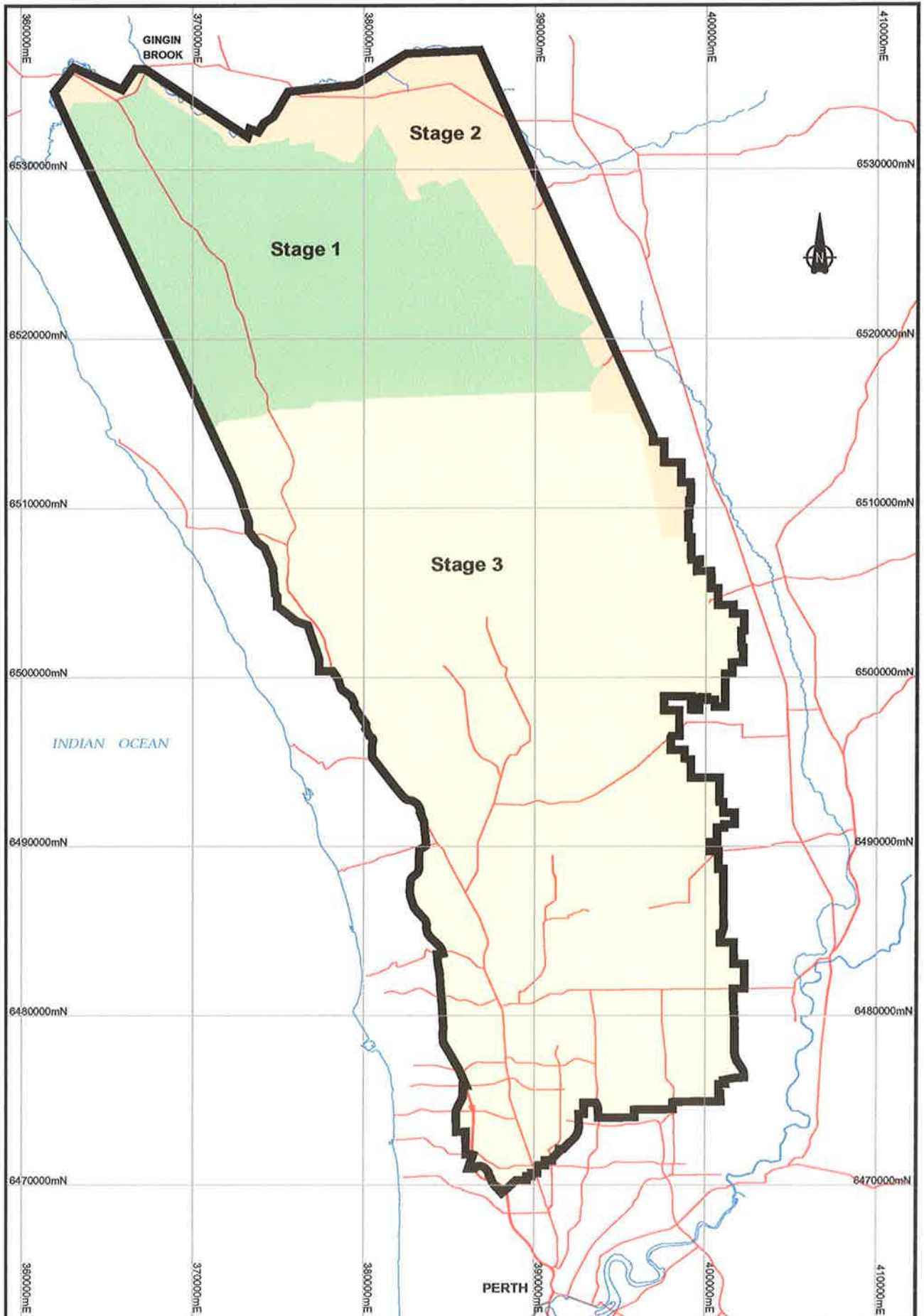
The effort to date has been on collating information and establishing and recording additional sites, consolidating this database and mapping the vegetation for the Stage 1 area.

The benefits from this project to date have included:

- . An opportunity to integrate databases from a range of sources that will assist not only in delineating and mapping the native vegetation of the Stage 1 area, but also assist in operational activities undertaken by all agencies and groups involved – the Water and Rivers Commission, the Water Corporation, the Department of Environmental Protection and the Department of Conservation and Land Management.
- . The digital data as supplied already should assist in planning and operational activities.
- . The opportunity to merge datasets from different studies has increased the knowledge base for the project area.
- . The database provides the opportunity to update the nomenclature used on many of the project areas in line with current standards defined by the Department of Conservation and Land Management.
- . The development of an integrated system of data that will assist in addressing spatial and temporal changes in the native vegetation over a wider area than previously was achieved through the monitoring programs as developed by Froend and Mattiske for the land and water management agencies.

2.2. Land Use

In the time since the Gngangara Mound was established as water resource substantial changes have also occurred in the landuse in the area including a recognition to conserve sections of the Gngangara Mound in conservation areas (Melaleuca Park, Yeal Nature Reserve). In addition, the degree and extent of pine plantations has increased since the mid-1960's, as has land clearing on the fringes of the Mound. The majority of the Stage 1 area is either in State Forest, Nature Reserves, pine plantations or private holdings.



**GNANGARA MOUND
VEGETATION MAPPING STAGES**



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<p>Drawn: CAD Resources ~ www.cadresources.com.au Tel: (08) 9246 3242 ~ Fax: (08) 9246 3202</p>		
<p>CAD Ref: g708_0701_94.dgn</p>		<p>Date: Nov 2001 Rev: A A4</p>

2.3. Climate

Gnangara Mound has a warm dry Mediterranean climate with a defined seasonal pattern of wet-mild winters and dry- hot summers. The average annual minimum temperature is 12°C and the maximum average annual temperature is 24°C. With five to six dry months a year the annual average rainfall for the area is 600- 1000mm (Beard 1990; Bureau of Meteorology 2002). The rainfall has varied substantially since the initial rainfall recordings were established in Perth last century. It is widely recognised that there have been periods of low annual rainfall recordings (1910's to 1920's and since 1970's). As such the Perth region is currently in one of its driest periods on records and consequently as noted by previous monitoring work by Heddle (1980), E.M. Mattiske and Associates (1982 to 1995) and Mattiske Consulting Pty Ltd (1997 to 2001), there have major shifts in vegetation in response to the series of lower rainfall years since the mid 1960's. The latter has led to substantial changes in the swamp vegetation as a result of this drying period.

The changes in local landuse and resulting vegetation cover have occurred at the very time when the annual rainfall recordings have declined since the 1960's. In addition to the variation in vegetation and its utilisation of surface and subsurface water bodies, there have been local trends in water availability associated with the groundwater conditions. In general there is a tendency for the rainfall to decrease from south to north and from west to east as the majority of the rainfall is received in the winter months of the year from south-westerly frontal systems. The latter pattern has also been reflected in the local availability of water within the systems and across the wider Gnangara Mound.

2.4. Landscape and Soils

The Swan Coastal plain consists of a series of geomorphic entities parallel to the coastline and consists of the Pinjarra plain and three dune systems of different ages whose soils are at different stages of leaching and soil formation.

From the coast heading inland the survey area is situated largely on the Spearwood and Bassendean dune systems. The most westerly boundary just clips the fringes of the Quindalup dune system which is the most recently formed near coastal dune systems (Churchward and McArthur 1980). The most eastern boundary of the survey area stopped just short of the Pinjarra plain which is an alluvial tract predominantly consisting of clays and silts lying between the Bassendean Dunes and the Darling Scarp (Churchward and McArthur 1980; Beard 1990).

The Spearwood Dunes consist of dunes lithified to limestone, in some locations, the limestone pinnacles reach the upper soil layers. These dune systems are generally higher and steeper than the Bassendean dunes. The terrain consists of ridges of calcarenite disposed more or less parallel to the coastline and mantled with yellow sand that becomes more bleached at the surface and less calcareous from west to east. There are some permanent lakes tending to occur in chains parallel to the coast which may represent old lagoons cut off by foredunes from a prograding shoreline (Beard 1990; Mattiske Consulting Pty Ltd 1997).

The Bassendean system lies inland from the Spearwood system and is approximately 15km wide (Churchward and McArthur 1980). It consists of low gently undulating dunes of quartz sands that are virtually devoid of nutrients. Dune swales tend always to be swampy due to drainage obstructed by hardpan of various kinds and there is no organised flow-lines except

where the various creek systems or rivers cross the plain (Beard 1990; Mattiske Consulting Pty Ltd 1997).

The vegetation has largely reflected the underlying landform and soil systems, with resulting changes in structure and composition associated with the Quindalup, Spearwood (Karrakatta and Cottesloe mapping units) and Bassendean dune systems (Bassendean mapping units). In between the Spearwood and Bassendean dune systems is a series of wetlands and lakes, which are associated with the Herdsman and Pinjar mapping units. In addition there are swamps and damplands within the different dune systems and these are reflected in the resulting structure and floristic composition of the vegetation.

2.5. Water Resources

Studies show that the demands made on the limited water resources in the vicinity of Perth are increasing (Water Authority of Western Australia 1986; Western Australian Water Resources Council 1987). The Gnangara Mound provides a significant part of the ground water for the Perth region. The Gnangara Mound is the name given to the shallow groundwater aquifer between the Swan River and Gingin Brook on the northern Swan Coastal plain. The swamps and lakes occur in this area where the water table approaches or rises above the surface of the ground. Consequently, most wetland areas are shallow and subject to seasonal loss of water; although in some instances there are local perched water systems above impervious soil layers.

In view of the diversity of land in the region and the potential conflict of users it is important to understand the natural biological systems within the region (Mattiske Consulting, 2000). The significance of these surface and shallow waters to the native vegetation have been studied on the Gnangara Mound since 1966 by Havel (1968), Heddle (1980) and E.M Mattiske and Associates (1981, 1982, 1985 and 1988).

2.6. Rare and Priority Flora

Species of flora and fauna are defined as rare or priority conservation status where their populations are restricted geographically or threatened by local processes. The Department of Conservation and Land Management recognises these threats of extinction and consequently applies regulations towards population and species protection.

Rare Flora species are gazetted under subsection 2 of section 23F of the Wildlife Conservation Act (1950) and therefore it is an offence to "take" or damage rare flora without Ministerial approval. Section 23F of the Wildlife Conservation Act (1950-1980) defines "to take" as "... to gather, pick, cut, pull up, destroy, dig up, remove or injure the flora or to cause or permit the same to be done by any means.

Unlike Declared Rare Flora, however, it is not a legal offence "to take" flora classified as being Priority Taxa. Nonetheless, it is encouraged that caution still be exercised, given that Priority Flora are under consideration for declaration as 'rare flora', but are in urgent need of further survey (Priority One to Three) or require monitoring every 5-10 years (Priority Four). Table 2 presents the definitions of the categories of threatened species under the Environmental Protection and Biodiversity Conservation Act, 1999.

Table 1: Definition of Rare and Priority Flora Species (Department of Conservation and Land Management, 2002)

Note: In other sections of the report these codes are referred to as the SCC – State Conservation Code

Conservation Code	Category
R	<p>Declared Rare Flora – Extant Taxa</p> <p>“Taxa which have been adequately searched for and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection and have been gazetted as such.”</p>
P1	<p>Priority One – Poorly Known Taxa</p> <p>“Taxa which are known from one or a few (generally <5) populations which are under threat, either due to small population size, or being on lands under immediate threat. Such taxa are under consideration for declaration as ‘rare flora’, but are in urgent need of further survey.”</p>
P2	<p>Priority Two – Poorly Known Taxa</p> <p>“Taxa which are known from one or a few (generally <5) populations, at least some of which are not believed to be under immediate threat (i.e. not currently endangered). Such taxa are under consideration for declaration as ‘rare flora’, but urgently need further survey.”</p>
P3	<p>Priority Three – Poorly Known Taxa</p> <p>“Taxa which are known from several populations, and the taxa are not believed to be under immediate threat (i.e. not currently endangered), either due to the number of known populations (generally >5), or known populations being large, and either widespread or protected. Such taxa are under consideration for declaration as ‘rare flora’ but need further survey.”</p>
P4	<p>Priority Four – Rare Taxa</p> <p>“Taxa which are considered to have been adequately surveyed and which, whilst being rare (in Australia), are not currently threatened by any identifiable factors. These taxa require monitoring every 5-10 years.”</p>

Table 2: Categories of Threatened Flora Species (Environmental Protection and Biodiversity Conservation Act, 1999)

Note: In other sections of the report these codes are referred to as the FCC – Federal Conservation Code

Category Code	Category
Ex	<p>Extinct</p> <p>Taxa which at a particular time if, at that time, there is no reasonable doubt that the last member of the species has died.</p>
ExW	<p>Extinct in the Wild</p> <p>Taxa which is known only to survive in cultivation, in captivity or as a naturalized population well outside its past range; or it has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.</p>
CE	<p>Critically Endangered</p> <p>Taxa which at a particular time if, at that time, it is facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria.</p>
E	<p>Endangered</p> <p>Taxa which is not critically endangered and it is facing a very high risk of extinction in the wild in the immediate or near future, as determined in accordance with the prescribed criteria.</p>
V	<p>Vulnerable</p> <p>Taxa which is not critically endangered or endangered and is facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with the prescribed criteria.</p>
CD	<p>Conservation Dependent</p> <p>Taxa which at a particular time if, at that time, the species is the focus of a specific conservation program, the cessation of which would result in the species becoming vulnerable, endangered or critically endangered within a period of 5 years.</p>

2.7. Vegetation

The main determinants of the location of different plant species and their associations on the northern Swan Coastal Plain are the underlying site conditions and the local climatic conditions (Havel 1968; Mattiske Consulting Pty Ltd 2000). For example, Paperbark trees (*Melaleuca's*) are confined to the lower slopes and depressions which are seasonally wet and either peat-loams or clays, while other species are restricted to the drier upper slopes and therefore can tolerate low moisture sandy soils (e.g. *Eremaea pauciflora*). This relationship with the local environment has been defined by Havel (1968) for the plant species and plant communities on the Bassendean and Spearwood dune systems through the definition of a series of site-vegetation types for the northern Swan Coastal Plain.

The following vegetation complexes were defined by Heddle *et al.* (1980) for the wider Gnangara Mound area, namely:

Fluviatile Deposits

COONAMBIDGEE COMPLEX

Vegetation ranges from low open forest and low woodland of *Eucalyptus todtiana* - *Banksia attenuata* - *Banksia menziesii* - *Banksia ilicifolia* with localised admixtures of *Banksia prionotes* to open woodland of *Corymbia calophylla* - *Banksia* spp.

YANGA COMPLEX

Predominantly a closed scrub of *Melaleuca* spp. and low open forest of *Casuarina obesa* on the flats subject to inundation. On drier sites the vegetation reflects the adjacent vegetation complexes of Bassendean and Coonambidgee.

Aeolian Deposits

BASSENDEAN COMPLEX – NORTH

Vegetation ranges from low open forest and low woodland of *Banksia* spp. - *Eucalyptus todtiana* to low open woodland of *Melaleuca* spp. and sedgelands, which occupy the moister sites.

BASSENDEAN COMPLEX - CENTRAL AND SOUTH

Vegetation ranges from woodland of *Eucalyptus marginata* - *Allocasuarina fraseriana* - *Banksia* spp. to low woodland of *Melaleuca* spp. and sedgelands on the moister sites. This includes the transition of *Eucalyptus marginata* to *Eucalyptus todtiana* in the vicinity of Perth.

BASSENDEAN COMPLEX - NORTH - TRANSITION

A transition complex of low open forest and low woodland of *Banksia* spp. - *Eucalyptus todtiana* on a series of high sand dunes. The understorey species reflects similarities with both the Bassendean - North and Karrakatta - North vegetation complexes.

BASSENDEAN COMPLEX - CENTRAL AND SOUTH – TRANSITION

Woodland of *Eucalyptus marginata* - *Corymbia calophylla* with well defined second storey of *Allocasuarina fraseriana* and *Banksia grandis* on the deeper soils and closed scrub on the moister sites. The understorey species reflects similarities with the adjacent vegetation complexes.

KARRAKATTA COMPLEX – NORTH

Predominantly low open forest and low woodland of *Banksia* spp. - *Eucalyptus todtiana*, less consistently open forest of *Eucalyptus gomphocephala* - *Eucalyptus todtiana* - *Banksia* spp.

KARRAKATTA COMPLEX - NORTH - TRANSITION

A transition complex of low open forest and low woodland of *Banksia* spp. - *Eucalyptus todtiana* on the transition zone on a series of high sand dunes between Bassendean - North and Karrakatta - North.

KARRAKATTA COMPLEX - CENTRAL AND SOUTH

Predominantly open forest of *Eucalyptus gomphocephala* - *Corymbia calophylla* and woodland of *Eucalyptus marginata* - *Banksia* spp.

COTTESLOE COMPLEX – NORTH

Predominantly low open forest and low woodland of *Banksia attenuata* - *Banksia menziesii* - *Eucalyptus todtiana*; closed heath on the limestone outcrops.

COTTESLOE COMPLEX - CENTRAL AND SOUTH

Mosaic of woodland of *Eucalyptus gomphocephala* and open forest of *Eucalyptus gomphocephala* - *Eucalyptus marginata* - *Corymbia calophylla*; closed heath on the limestone outcrops.

HERDSMAN COMPLEX

Sedgeland and fringing woodland of *Eucalyptus rudis* - *Melaleuca* spp.

PINJAR COMPLEX

Vegetation ranges from woodland of *Eucalyptus marginata* - *Banksia* spp. to fringing woodland of *Eucalyptus rudis* - *Melaleuca preissiana* and sedgelands.

QUINDALUP COMPLEX

Coastal dune complex consisting mainly of two alliances - the strand and fore dune alliance and the mobile and stable dune alliance. Local variations include the low closed forest of *Melaleuca lanceolata* - *Callitris preissii* and the closed scrub of *Acacia rostellifera*.

The following vegetation complexes dominate the Stage 1 area –

Quindalup Complex

Cottesloe Complex – North

Cottesloe Complex - Central and South

Karrakatta Complex – North

Karrakatta Complex - North - Transition

Karrakatta Complex - Central and South

Bassendean Complex – North

Bassendean Complex - North - Transition

Bassendean Complex - Central and South – Transition

The Quindalup complex just occurs on the western fringes of the Stage 1 area and is clearly evident from a few localised sand dune systems interfacing on the western section of the Stage 1 area.

The first five complexes occur on the western Spearwood dune system and the latter three occur on the eastern Bassendean dune system.

The relationships between plant species with the local environment has been defined by Havel (1968) for the plant species and plant communities on the Bassendean and Spearwood dune systems through the definition of a series of site-vegetation types for the northern Swan Coastal Plain. Although this work was undertaken for the definition of suitable sites for pine plantations this analysis is also applicable for localised vegetation mapping as it integrates the site conditions with the resulting vegetation mapping.

A total of 25 site-vegetation types, based on the system developed by Havel (1968) for the northern Swan Coastal Plain were defined for the wider Gnaragarra Mound area. Thus the mapping codes are initially based on the A to K code with an additional number to designate the variation in structure and composition of the 25 vegetation mapping units in the Stage 1 project area.

The main determinants of the location of different plant species and their associations on the northern Swan Coastal Plain are the underlying site conditions and the local climatic conditions. For example, Paperbark trees (*Melaleuca's*) are confined to the lower slopes and depressions which are seasonally wet and either peat-loams or clays, while other species are restricted to the drier upper slopes and therefore can tolerate low moisture sandy soils (e.g. *Eremaea pauciflora*). This relationship with the local environment has been defined by Havel (1968) for the plant species and plant communities on the Bassendean and Spearwood dune systems through the definition of a series of site-vegetation types for the northern Swan Coastal Plain.

2.8. Local and Regional Significance

Vegetation communities are referred to as locally significant where the presence of priority flora species has been recorded, where they maintain a range extension of particular taxa from previously recorded locations, or where they are very restricted to one or two locations or occur as small isolated communities. In addition, communities that exhibit unusually high structural and species diversity are also of local significance.

Vegetation communities are referred to as Regionally Significant where they are limited to specific landform types, are uncommon or restricted community types within the regional context, or support populations of Declared Rare Flora.

3. OBJECTIVES

- Collation of data from different datasets, including cadastral, topography, aerial photographs, previous flora and vegetation studies, bore data.
- Collation of relevant literature for vegetation on the project area.
- Establishment and recording of a further 140 additional sites in the Stage 1 area.
- Adjustment of bore locations on data bases (monitoring and production in line with grid systems).
- collect and identify the vascular plant species present in the field survey area;
- search for any rare, endangered or significant flora species;
- review the conservation status of the vascular plant species by reference to current literature and current listings by the Department of Conservation and Land Management (2002) and plant collections held at the State Herbarium and current listings associated with the Environmental Protection Biodiversity Conservation Act (1999);
- define and map the vegetation communities present;
- prepare a report that summarises the findings.

4. METHODS

Data sets from previous studies were sorted and prepared for data integration into the database for Stages 1 to 3. This data was sourced from different datasets, including cadastral, topography, aerial photographs, previous flora and vegetation studies and bore data.

In undertaking this collation the main effort was placed on integrating the digital data sets for the wider project area. In integrating the point data from previous botanical studies an emphasis was placed on selecting the point data from those sets relevant to the Stage 1 area.

A further 140 additional sites were selected, established and recorded in the Stage 1 area. The 140 sites were selected using the aerial photograph mosaics for the area, which also included the location of all Gibson *et al.* (1994) sites (as supplied by the Department of Conservation and Land Management), the location of previously established vegetation monitoring sites by Mattiske Consulting for the Water and Rivers Commission, and the location of the bores (monitoring and production bores as supplied by the Water Corporation and the Water and Rivers Commission).

The 140 additional sites were recorded in the spring months of 2001, between the 4th September and the 22nd of October. Each site consisted of a 10m x 10m quadrat, which was pegged, in each corner with a fence dropper. A tag with the plot number on it was placed on the peg in the north west corner. The location of the northwest corner was also taken with a GPS. A photographic record was also taken of each quadrat, with the photograph taken looking towards the northwest corner of the quadrat.

The location of each site was selected on the basis of previous coverage or lack of coverage, the ability to access the area and on the basis of significant changes in structure and floristic of the vegetation. Additional attention was also placed on locating sites in areas to assist in boundary definition.

4.1. Flora

The flora of the area was described and collected systematically at each survey site by botanists from Mattiske Consulting Pty Ltd during field trips carried out at various times in September 2001.

All plant specimens collected during the field survey were dried and fumigated in accordance with the requirements of the Western Australian Herbarium. The plant species were identified and then compared with pressed specimens housed at the Western Australian Herbarium. Where appropriate, plant taxonomists with specialist skills were consulted. Nomenclature of the species recorded follows the Western Australian Herbarium (2002) database.

4.2. Vegetation

The vegetation communities occurring within the survey area were described in detail. The use of a standard data collection form ensured the data was collected in a systematic and consistent manner. At each site the following records were made: topography, percentage litter cover, soil ratio and colour, percentage of bare ground, outcropping rocks, and age since fire. For each species recorded, the average height was noted and for the dominant species of each stratum the percentage foliage cover of both alive and dead was noted.

The method of site-vegetation typing as defined by Havel (1968) for the plant species and plant communities on the Bassendean and Spearwood dune systems for the northern Swan Coastal Plain was adopted to categorise the various vegetation communities that were surveyed on the Gnangara Mound.

These Havel site-vegetation types have since been expanded for the Stage 1 project, Thus the mapping codes are initially based on the A to K code with an additional number to designate the variation in structure and composition of the 25 vegetation mapping units in the Stage 1 project area.

Aerial photography and soil mapping was used to extrapolate and map vegetation communities in combination with running notes made during the course of the survey.

5. RESULTS

5.1. Flora

A total of 717 vascular plant taxa from 80 plant families and 273 genera were recorded within the wider project area. Of these, 78 taxa were introduced plant taxa.

5.2. Potential Rare and Priority Flora

A search of potential Rare and Priority species was undertaken by accessing the database as held by the Department of Conservation and Land Management (2002). This database search extended beyond the Stage 1 project area to delineate potential rare and priority flora, which may occur in the Stage 1 project area. As a result of this database search some eight Declared Rare Flora species (as gazetted under the Wildlife Conservation Act 1950), two Priority 1 species, six Priority 2 species, eighteen Priority 3 species and ten Priority 4 species (as listed by the Department of Conservation and Land Management (2002) were recognised as potentially occurring in the wider area on the Gngangara Mound. Many of these species occur on the eastern and western fringes of the Stage 1 project area.

Of the latter species, four of the Declared Rare Flora species are listed as Endangered and four of the Declared Rare Flora species are listed as Vulnerable under the Environmental Protection and Biodiversity Conservation Act (1999). If the area of potential investigation is extended then the number of rare and priority species increases proportionally as many rare and endangered species are located on the eastern side of the Swan Coastal Plain in localised remnant areas.

The following details have been extracted from FloraBase and are provided as a basis for reviewing potential impacts of changes in surface water tables on rare and endangered species (see listing in Appendix E):

Declared Rare Flora

Acacia anomala (R - SCC ; V - FCC)

On restricted, lateritic soils, eastern edge of Swan Coastal Plain.

Caladenia huegelii (R - SCC ; E - FCC)

On damplands and sandy dunes (grey and Bassendean in particular), largely coastal plain; associated with *Melaleuca raphiophylla* and *Banksia* woodlands.

Chamelaucium sp. Gingin (N. Marchant s.n. 4.11.88) (R - SCC; E - FCC)

On white to yellow sands, on slight rises, restricted but not confined to Gngangara Mound.

***Darwinia* sp. *Muchea* (B.J. Keighery 2458) (R - SCC)**

On grey white sands, *Muchea* and restricted.

***Eleocharis keigheryi* (R - SCC ; V - FCC)**

On fresh water and creeks, claypans and sandy-loams, largely coastal plain; ranges from *Casuarina obesa* flats to Wandoo gullies, often associated with *Melaleuca lateritia* and *Melaleuca viminea*.

***Eucalyptus argutifolia* (R - SCC ; V - FCC)**

On shallow limestone, restricted to coastal plain.

***Grevillea curviloba* subsp. *curviloba* (R - SCC; E - FCC)**

On winter wet heaths, *Muchea* and Bullsbrook, restricted to coastal plain.

***Grevillea curviloba* subsp. *incurva* (R - SCC; E - FCC)**

On winter wet heaths, sandy-clays over ironstone, *Muchea* to Eneabba, coastal areas mainly.

Priority 1 Flora***Grevillea evanescens* (Priority 1 - SCC; V - FCC)**

On Spearwood sands to swamps near Gingin, restricted in occurrence.

***Pityrodia axillaris* (Priority 1 - SCC)**

On sandy soils, mostly northeast and not restricted to Coastal Plain.

Priority 2 Flora***Acacia benthamii* (Priority 2 - SCC)**

On largely coastal plain - limestone and some on shallow sands over clay (Southern River).

***Haloragis aculeolata* (Priority 2 - SCC)**

Not restricted to coastal plain - variable sites, winter-wet flats to ridges, sand or clay over limestone and some limestone ridges.

***Isotropis cuneifolia* subsp. *glabra* (Priority 2 - SCC)**

On restricted, winter wet clay pans, near Gingin.

***Scaevola paludosa* (Priority 2 - SCC)**

Occurs as scattered populations from Shark Bay to Esperance on coastal areas, associated with calcareous soils and limestone. In previous studies on the Swan Coastal Plain this taxon has been found to have been mis-applied to some specimens.

***Stenanthemum sublineare* (Priority 2 - SCC)**

Very restricted, but local population substantial, in *Banksia attenuata* community.

Priority 3 Flora***Adenanthos cygnorum* subsp. *chamaephyton* (Priority 3 - SCC)**

Lateritic soils and sandy soils, eastern Swan Coastal Plain near *Muchea* and into jarrah forest to east.

***Chamaescilla gibsonii* (Priority 3 - SCC)**

Winter wet, sandy clays on Swan Coastal Plain.

***Comesperma acerosum* (Priority 3 - SCC)**

Sands over limestone, lateritic gravels from Geraldton to South Coast, mainly near coastal areas.

***Conostylis bracteata* (Priority 3 - SCC)**

Sandy soils, associated with limestone, northern Swan Coastal Plain.

***Conostylis pauciflora* subsp. *euryrhipis* (Priority 3 - SCC)**

Sandy soils, associated with limestone, Swan Coastal Plain.

***Cyathochaeta teretifolia* (Priority 3 - SCC)**

Near coastal areas southwest, grey sands to clay sands, edges of swamps and creeks, sedgeland.

***Dillwynia dillwynioides* (Priority 3 - SCC)**

On restricted, winter wet sandy - clays, Gingin to Harvey *Melaleuca* and *Banksia* woodlands, including Bassendean dune system.

***Guichenotia tuberculata* (Priority 3 - SCC)**

Sandy clays and laterite, eastern Swan Coastal Plain.

***Haloragis tenuifolia* (Priority 3 - SCC)**

On winter-wet flats, grey sands, coastal areas, not restricted to Gnangara Mound.

***Hibbertia spicata* subsp. *leptotheca* (Priority 3 - SCC)**

Sandy soils, associated with limestone, Swan Coastal Plain.

***Jacksonia sericea* (Priority 3 - SCC)**

On calcareous and sandy soils, coastal areas, not restricted to Gnangara Mound.

***Lasiopetalum lineare* (Priority 3 - SCC)**

Sandy soils to laterite soils, population near Yeal Swamp, *Banksia* woodlands, northern Swan Coastal Plain.

***Lasiopetalum membranaceum* (Priority 3 - SCC)**

On sand over limestone, coastal areas, not restricted to Gnangara Mound.

***Myriophyllum echinatum* (Priority 3 - SCC)**

On winter-wet flats, clays, coastal areas, not restricted to Gnangara Mound.

***Platysace ramosissima* (Priority 3 - SCC)**

Winter damp flats to sandy soils, Coastal Plain, Lake Clifton to northern plains.

***Stylidium longitubum* (Priority 3 - SCC)**

Sandy clays to clays associated with seasonal wetlands, on Swan Coastal Plain and in Wheatbelt.

***Thomasia triloba* (Priority 3 - SCC)**

Sandy to gravelly soils, associated also with limestone, from north of Geraldton to southern coast.

***Verticordia serrata* var. *linearis* (Priority 3 - SCC)**

Sand and gravelly soils, eastern side of Swan Coastal Plain, eastwards to Northam and isolated population northeast of Geraldton.

Priority 4 Flora***Caladenia speciosa* (Priority 4 - SCC)**

On grey to black sands, coastal areas but not restricted to Gnangara Mound.

***Calytrix sylvana* (Priority 4 - SCC)**

On lateritic and sandy soils, northern Swan Coastal Plain and eastwards onto Darling Ranges.

***Conostephium minus* (Priority 4 - SCC)**

On sand dunes, grey and yellow sands, *Banksia* woodlands.

***Conostylis pauciflora* subsp. *pauciflora* (Priority 4 - SCC)**

On sand dunes, associated with limestone, Swan Coastal Plain.

***Drosera occidentalis* subsp. *occidentalis* (Priority 4 - SCC)**

Winter wet swamps, sands and clay soils on Swan Coastal Plain and adjacent areas.

***Grevillea thelemanniana* (Priority 4 - SCC)**

Winter wet low lying flats, west of mound, but not restricted to Gnangara Mound

***Hydrocotyle lemnoides* (Priority 4 - SCC)**

Swamps clay pans Swan Coastal Plain and inland to southwest swamps.

***Lepidium pseudotasmanicum* (Priority 4 - SCC)**

Loams and sands, northern Swan Coastal Plain (near Yanchep), inland areas and south coast.

***Stachystemon axillaris* (Priority 4 - SCC)**

Sandy soils, northern coastal areas from Perth to Geraldton.

***Verticordia lindleyi* subsp. *lindleyi* (Priority 4 - SCC)**

Sands, sandy-clays, winter wet depressions and creeklines, mainly coastal.

The majority of these rare and priority species, as indicated by reference to FloraBase reflect a consistent pattern of species that are concentrated in winter wet depressions, plant communities on the eastern side of the Swan Coastal Plain (which have largely been cleared for agriculture) which will occur within Stage 2 of the Gnangara Mound mapping project area and in the plant communities on the western calcareous sands associated with limestones which will occur within Stage 3 of the Gnangara Mound mapping project.

5.3. Rare and Priority Flora Species in Stage 1

As a result of the survey work associated with the flora and vegetation studies in the Stage 1 project area the following rare and priority species were located:

No declared rare flora pursuant to Subsection 2 of Section 23F of the Wildlife Conservation Act (1950) and listed by the Department of Conservation and Land Management (2002) were located during the survey.

No endangered or vulnerable species, pursuant to Schedule 1 of s179 of the Environmental Protection and Biodiversity Conservation Act (1999) (Environment Australia, 2002) were located during the survey.

14 Priority Flora species pursuant to Subsection 2 of Section 23F of the Wildlife Conservation Act (1950) and listed by the Department of Conservation and Land Management (2002) was located during the survey. The locations of the Priority Flora in the project area are summarised in Table 3.

Table 3: Locations and Status of Priority Flora found on the Gngangara Mound

Note: M= Sites established by Mattiske consulting, G= Sites established By Gibson et al.

Species	Status	Site Numbers
<i>Acacia benthamii</i>	P2	M046, G855
<i>Calectasia cyanea</i>	P2	M002, M003, M004, G570, G573, G672, G693, G815
<i>Conostephium minus</i>	P4	M062, M065, M069, M072, M077, M083, M092, M102, M106, M117, M120, G152, G569, G573, G574, G657, G658, G663, G671, G672, G673
<i>Conostylis pauciflora subsp. euryrhipis</i>	P3	G809, G811
<i>Dillwynia dillwynioides</i>	P3	G571
<i>Hibbertia spicata subsp. leptotheca</i>	P3	G847, G850, G852
<i>Jacksonia sericea</i>	P3	M001, M007, M023, M027, M028, M033, M035, M042, M046, M047, M051
<i>Pithocarpa corymbulosa</i>	P2	G671, G815
<i>Sarcozona bicarinata</i>	P3	G805
<i>Scaevola paludosa</i>	P2	G798, G814
<i>Schoenus natans</i>	P4	G602
<i>Stachystemon axillaris</i>	P4	M056
<i>Stylidium glabrifolium</i>	P2	G798
<i>Stylidium longitubum</i>	P3	G344, G345

5.4. Threatened Ecological Communities and Vegetation Communities of Conservation Significance

Four ecological communities were initially listed as Critically Endangered by English and Blyth (1997). These ecological communities are listed as threatened under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) have been recorded within the wider Gngangara Mound area and therefore potentially occur within the future staged flora and vegetation mapping areas. These communities occur on the eastern or western fringes of the project area:

1. Aquatic Root Mat Community in Caves of the Swan Coastal Plain
2. Assemblages of plants and invertebrate animals of tumulus (organic mound) springs of the Swan Coastal Plain
3. Shrublands and Woodlands on Muchea Limestone of the Swan Coastal Plain
4. Shrublands and Woodlands on Perth to Gingin Ironstone (Perth to Gingin ironstone association) of the Swan Coastal Plain

In the current stage, a range of vegetation communities could be considered to be potentially significant as a result of their restricted occurrence, the degree of disturbance in some communities or the likely changes in spatial distribution as a result of continued drought conditions on the Gngangara Mound, namely:

1. The dense heaths and shrublands on the limestone outcrops of largely the Cottesloe landform and soil units of the Spearwood dune system (Churchward and McArthur 1980), which supports the A1, B1 and B4 site-vegetation types as defined and mapped in Stage I). These communities have been highlighted as significant by the Department of Conservation and Land Management. Neither of these communities is likely to be affected by changes in groundwater levels as they occur on shallow limestone areas higher in the landscape. However the structure and composition of these communities is likely to be affected by landuses (adjacent pine plantations) and drought conditions.
2. The woodlands on the deeper dunes of the Spearwood dune system (largely Karrakatta landform and soil unit as defined by Churchward and McArthur 1980) which support both stands of Tuart (*Eucalyptus gomphocephala*) (B2 site-vegetation type) and the mallee Eucalypts (*Eucalyptus decipiens* subsp. *decipiens* and *Eucalyptus foecunda*) (B3 site-vegetation type) are locally restricted and in other sections of the Swan Coastal Plain have been cleared for urban, semi-rural and agricultural holdings. The latter clearing is evident in the extent of B2(d) on the northern section of mapping in the Stage 1 area. Whilst these communities are not likely to be affected by changes in local groundwater levels, land clearing poses continued threats to their extent and protection.
3. The other potential threatened ecological communities include largely the wetlands and watercourses (largely K series of site-vegetation types as defined and mapped in the Stage 1 area). These communities have been modified significantly since the 1960's, as indicated by the detailed monitoring work of the Gngangara Mound by E.M. Matiske and Associated and Matiske Consulting Pty Ltd since the mid-1970's. In these monitoring studies the extent and condition of these areas has been modified.

Hedde *et al.* (1980) defined fourteen vegetation complexes for the wider Gngangara Mound area and 8 of these vegetation complexes dominated the Stage 1 project area. The vegetation complexes within the current Stage 1 area, the small area of Quindalup, the Spearwood and Bassendean dune systems are relatively well represented in either State Forest areas or conservation reserves within the northern Swan Coastal Plain. The less well represented vegetation complexes occur in Stage 2 on the eastern fringes of the Bassendean dune systems on the interface between the dune systems and the Darling Ranges and Dandaragan Plateau. The vegetation complex mapping units, which occur on the extensive low lying wetlands, flats and damplands where there has been a dependency on near surface higher soil moisture levels are at greatest risk and have a higher conservation value in the context that significant sections of these complexes have been cleared for agriculture or urban developments.

The representation of the majority of the vegetation complexes was reviewed during the System 6 process, and in the southern section of the Gngangara Mound during Bush Forever process (State Government of Western Australia 2001).

Only the southern area of the Gngangara Mound was assessed during the Bush Forever (or Bushplan) process and consequently even assessment of conservation values and regional significance of vegetation values was not consistent across the project area.

The assessment by Gibson *et al.* (1994) and English and Blyth (1997) highlighted the following communities as having conservation significance, namely:

The *Banksia attenuata* woodlands over species rich dense shrublands (Floristic Community Type 20a, Gibson *et al.* 1994) is classed as Threatened Ecological Community – Endangered Category by English and Blyth (1997). This community occurs on two distinct landform units, one of which is the Karrakatta unit (part of the Spearwood System) located north of Perth.

The Quindalup, Cottesloe and Karrakatta units are only found on the western boundary of the Gnangara Mound project area.

5.5. Vegetation Complexes

Hedde *et al.* (1980) defined fourteen vegetation complexes for the wider Gnangara Mound area and 8 of these vegetation complexes dominated the Stage 1 project area. These occurred on the Spearwood and Bassendean dune systems.

The following vegetation complexes dominate the Stage 1 area –

Quindalup Complex
 Cottesloe Complex – North
 Cottesloe Complex - Central and South
 Karrakatta Complex – North
 Karrakatta Complex - North - Transition
 Karrakatta Complex - Central and South
 Bassendean Complex – North
 Bassendean Complex - North - Transition
 Bassendean Complex - Central and South – Transition

The Quindalup complex just occurs on the western fringes of the Stage 1 area and is clearly evident from a few localised sand dune systems interfacing on the western section of the Stage 1 area.

The Cottesloe and Karrakatta complexes occur on the western Spearwood dune system and the latter three occur on the eastern Bassendean dune system.

5.6. Vegetation

The specific sites assessed by Mattiske Consulting Pty Ltd in 2001 and Gibson were classified at the site-vegetation type level (Appendix B). To assist in interpretation the legend on the accompanying maps are presented in two forms:

1. grouped by the structural formation (Closed Heath through to the Open Forest)
2. ordered by site-vegetation types (based on the earlier studies by Havel (1968) on the Swan Coastal Plain.

A total of 25 site-vegetation types, based on the system developed by Havel (1968) for the northern Swan Coastal Plain were defined for the Gnangara Mound project area (Appendix C). These communities can be related to underlying soil and site conditions on the respective Quindalup, Spearwood and Bassendean dune systems as defined by Havel (1968).

The Quindalup dune system supports the Q1 site-vegetation type as defined below on the western dune systems in the Stage 1 area.

The Spearwood dune system supports the A1, B1, B2, B3, B4, C1, D1 and E1 site-vegetation types on the varying soil depths over limestone on the Cottesloe (A1, B1, B2, B4, C1) and Karrakatta (D1 and E1) systems.

Bassendean dune system supports the F1, G1, G2, G3, H1, H2, H3, H4, I1, J1, J2., K1, K2, K3, K4 and K5 on the leached sands of the system. The F1 unit forms an intermediate type between the Spearwood and the Bassendean dunes systems as reflected in the leached surface soils and resulting vegetation. The gradient from the upper slopes of the Bassendean dune systems is reflected in the shift from the G1 to G3 types, through the H1 to H4 on the mid slopes, I1 on the moister lower slopes, J1 to J2 on the seasonally wetter soils on the lower slopes to the range of damplands and wetlands on the K1 to K5 types. The latter changes in site-vegetation types is reflected in the pattern of the wetlands, at the extreme – OW – open water, through the K series then upslope changing gradually to the G series at the top of the drier dune systems. This latter pattern is critical for reflecting and predicting changes in local hydrological conditions as the K types are generally dependent on regular wet and moist soils either in circular low lying areas close to the surface or near surface groundwater levels or along watercourses and flowlines (eg. the river flats in the northern section of Stage 1).

If one approaches the vegetation on the Gnangara project area from a structural approach there are a total of 8 structural formations, as follows:

Open Forest

- K1 Open Forest of *Eucalyptus rudis* - *Melaleuca preissiana* - *Banksia ilicifolia* with occasional *Banksia attenuata*, *Banksia menziesii*, *Nuytsia floribunda* and *Eucalyptus todtiana* over *Kennedia prostrata*, *Lyginia barbata*, *Xanthorrhoea preissii*, *Hypocalymma angustifolium*, *Dasypogon bromeliifolius*, *Pericalymma ellipticum* var. *ellipticum*, *Astartea fascicularis*, *Lepidosperma tenue*, *Jacksonia furcellata*, *Kunzea ericifolia* subsp. *ericifolia* and *Bossiaea eriocarpa*.
- K2 Open Forest of *Eucalyptus rudis* - *Melaleuca raphiophylla* - *Banksia ilicifolia* with occasional pockets of *Casuarina obesa*, *Melaleuca preissiana*, *Banksia littoralis* over *Baumea juncea*, *Lepidosperma longitudinale*, *Regelia ciliata*, *Hypolaena exsulca* and *Hakea varia*.
- K3 Open Forest of *Eucalyptus rudis* - *Melaleuca preissiana* over *Acacia saligna* and *Hypocalymma angustifolium*.

Woodland

- B2 Woodland of *Eucalyptus gomphocephala* - *Banksia attenuata* - *Allocasuarina fraseriana* over *Hibbertia hypericoides*, *Hakea trifurcata*, *Conospermum canaliculatum*, *Melaleuca systema*, *Macrozamia riedlei*, *Acacia pulchella* var. *glaberrima* and *Stirlingia latifolia*.
- G3 Woodland of *Eucalyptus marginata* - *Eucalyptus todtiana* over *Xanthorrhoea preissii*, *Hibbertia hypericoides* and *Phlebocarya ciliata*.
- J1 Woodland of *Corymbia calophylla* - *Banksia attenuata* - *Banksia menziesii* - *Melaleuca preissiana* over *Xanthorrhoea preissii*, *Hypocalymma angustifolium*, *Pultenaea reticulata*, *Adenanthos obovatus*, *Regelia ciliata* and *Jacksonia furcellata*.

- J2 Woodland of *Corymbia calophylla* over *Xanthorrhoea preissii*, *Hibbertia subvaginata* and *Gompholobium scabrum*.
- K4 Woodland of *Melaleuca preissiana* - *Banksia attenuata* - *Nuytsia floribunda* with the occasional *Banksia menziesii* and *Eucalyptus todtiana* over *Xanthorrhoea preissii*, *Dasypogon bromeliifolius* and *Jacksonia furcellata*.

Low Woodland

- B3 Low Woodland of *Eucalyptus decipiens* subsp. *decipiens* - *Banksia attenuata* - *Allocasuarina fraseriana* with pockets of *Eucalyptus foecunda* over *Hakea prostrata*, *Hakea ruscifolia*, *Xanthorrhoea preissii*, *Daviesia divaricata* and *Scholtzia involucrata*.
- G1 Low Woodland of *Banksia attenuata* - *Banksia menziesii* - *Eucalyptus todtiana* - *Nuytsia floribunda* with occasional *Allocasuarina fraseriana* and *Banksia grandis* (southern section only) over *Leucopogon conostephioides*, *Scholtzia involucrata*, *Eremaea pauciflora* var. *pauciflora*, *Melaleuca scabra*, *Boronia purdieana* subsp. *purdieana* and *Astroloma xerophyllum*.
- H1 Low Woodland of *Banksia attenuata* - *Banksia menziesii* - *Banksia ilicifolia* - *Nuytsia floribunda* over *Beaufortia elegans*, *Leucopogon polymorphus*, *Melaleuca systema*, *Calytrix angulata*, *Calytrix flavescens*, *Stirlingia latifolia*, *Dasypogon bromeliifolius*, *Leucopogon conostephioides*, *Lyginia barbata*, *Macrozamia riedlei* and *Xanthorrhoea preissii*.
- H2 Low Woodland of *Banksia attenuata* - *Banksia menziesii* over *Melaleuca viminea*, *Dasypogon bromeliifolius*, *Kunzea ericifolia* subsp. *ericifolia*, *Xanthorrhoea preissii*, *Phlebocarya ciliata* and *Hibbertia subvaginata*.
- H4 Low Woodland of *Banksia prionotes* over *Adenanthos cygnorum*, *Calytrix angulata*, *Verticordia densifolia* var. *densifolia* and *Regelia ciliata*.

Low Open Woodland

- C1 Low Open Woodland of *Banksia attenuata* - *Banksia menziesii* - *Allocasuarina fraseriana* over *Hibbertia hypericoides*, *Hibbertia racemosa*, *Hakea costata*, *Petrophile serruriae*, *Petrophile brevifolia*, *Jacksonia hakeoides*, *Jacksonia sternbergiana*, *Mesomelaena stygia*, *Xanthorrhoea preissii* and *Stirlingia latifolia*.
- D1 Low Open Woodland of *Banksia attenuata* - *Banksia menziesii* over *Mesomelaena stygia*, *Calothamnus sanguineus*, *Eremaea pauciflora* var. *pauciflora* and *Melaleuca scabra*.
- E1 Low Open Woodland of *Banksia attenuata* - *Banksia menziesii* over *Eremaea fimbriata*, *Xanthorrhoea preissii*, *Synaphea spinulosa* subsp. *spinulosa*, *Stirlingia latifolia* and *Melaleuca scabra*.
- F1 Low Open Woodland of *Banksia attenuata* - *Banksia grandis* over *Conospermum stoechadis* subsp. *stoechadis*, *Xanthorrhoea preissii*, *Eremaea pauciflora* var. *pauciflora* and *Jacksonia calcicola* (ms) with pockets of *Banksia attenuata* - *Banksia menziesii* - *Nuytsia floribunda* over *Melaleuca systema*, *Allocasuarina humilis* and *Xanthorrhoea preissii*.

- G2 Low Open Woodland of *Banksia attenuata* - *Banksia menziesii* - *Allocasuarina fraseriana* - *Eucalyptus tottiana* over *Xanthorrhoea preissii*, *Lysinema ciliatum*, *Verticordia nitens*, *Hibbertia hypericoides*, *Philotheca spicata*, *Eremaea pauciflora* var. *pauciflora*, *Bossiaea eriocarpa*, *Daviesia nudiflora*, *Mesomelaena pseudostygia* and *Stirlingia latifolia*.
- H3 Low Open Woodland of *Banksia ilicifolia* - *Hakea prostrata* over *Melaleuca systema*, *Melaleuca trichophylla*, *Xanthorrhoea preissii*, *Scholtzia involucrata*, *Calytrix flavescens* and *Petrophile brevifolia*.
- I1 Low Open Woodland of *Banksia attenuata* - *Banksia menziesii* over *Verticordia nitens*, *Dasypogon bromeliifolius*, *Melaleuca seriata* and *Patersonia occidentalis*.

Shrubland

- B4 Shrubland of *Conospermum canaliculatum* subsp. *canaliculatum*, *Melaleuca systema*, *Xanthorrhoea preissii* and *Hibbertia hypericoides* with limestone outcropping.
- Q1 Shrubland of *Acacia rostellifera*, *Acacia lasiocarpa*, *Calothamnus quadrifidus*, *Melaleuca systema*, *Phyllanthus calycinus* and *Leucopogon parviflorus*.

Closed Heath

- A1 Closed Heath of *Melaleuca huegelii*, *Trymalium ledifolium*, *Grevillea preissii* subsp. *preissii*, *Grevillea vestita* and *Dryandra sessilis*.
- B1 Closed Heath of *Jacksonia hakeoides*, *Conospermum triplinervium*, *Calothamnus quadrifidus*, *Melaleuca systema* and *Lechenaultia linarioides*.
- K5 Closed Heath to Tall Shrubland of Myrtaceae - Proteaceae species including *Acacia saligna*, *Melaleuca lateriflora*, *Kunzea ericifolia* subsp. *ericifolia*, *Astartea fascicularis*, *Regelia ciliata*, *Kunzea recurva*, *Hypocalymma angustifolium* over *Drosera* species.

In addition to the vegetation mapping units the code of OW was used to denote open water, Pines to denote pine plantations and (d) to denote disturbed or cleared vegetation. The latter code is pre-fixed by the site-vegetation code, so B1(d) is a disturbed version of the B1 site-vegetation type.

As indicated by the degree of disturbance in the northern section of the Stage 1 area a large section of the vegetation in the northern section of this area has been cleared for semi-rural lots or agricultural activities. In Stages 2 and 3 it would be useful to create a third disturbance category (c). The latter coding will become more critical in Stages 2 and 3 as larger areas are cleared rather than disturbed. At this juncture, Stage 1 will be revisited and some of the northern (d) areas will be subdivided. Essentially the main disturbance categories of vegetation in the Stage 1 area were partly cleared or pine plantations.

In general terms the health and the condition of the native vegetation in the areas was relatively intact, except for pockets of the J and K series of the site-vegetation types which had been affected by the drought period since the lower rainfall recordings in the 1970's. There are several regional trends in vegetation which reflect the underlying site conditions (either through variations in the depth of soil or through the degree of seasonal soil moisture in the soils).

The condition of the vegetation in the J and K site-vegetation types vary across the Gngangara Mound and in part reflect their location in relation to available soil moisture (either resulting from near surface groundwater or from trends in available moisture from south to north and west to east). The degree of changes in the vegetation cover and condition is also reflected by local site conditions. As indicated in the earlier monitoring studies by Heddle (1980), E.M. Mattiske and Associates (1982 to 1995) and Mattiske Consulting Pty Ltd (1997 to 2001) the degree of local change is also affected by the slope and local extent of the respective communities that tolerate different site conditions. To illustrate the latter point, the communities on the flatter areas near Lake Pinjar (as indicated by the Gngangara P50 studies) reflect subtle changes in local hydrological conditions more than the vegetation on the steeper slopes where the interface between those communities on the damplands and wetlands and the drier slopes is confined in spatial extent. Consequently, within the Stage 1 area the vegetation types have been affected by the regional drought conditions, as well as the specific shift in condition on the lower slopes and wetlands (J and K site-vegetation types and OW). The spatial extent of these changes is local and regional. The moist soil indicators, such as *Banksia littoralis*, *Eucalyptus rudis*, *Hypocalymma angustifolium* and species of *Melaleuca*, which occur in the site-vegetation types J and K series, can be used to assess further trends in the vegetation in response to the drought conditions on the Gngangara Mound.

6. DISCUSSION

A total of 717 vascular plant taxa from 80 plant families and 273 genera were recorded within the wider project area. Of these, 78 taxa were introduced plant taxa. This total number of taxa is likely to increase substantially when Stages 2 and 3 are undertaken on the Gngangara Mound project area. The latter prediction is related primarily to the greater range of site conditions in the other areas. It is also likely that the number of introduced species in these other areas will increase as many remnant areas of vegetation have been isolated or been modified by local grazing activities.

The majority of the rare and priority species recorded in the wider project area reflect a consistent pattern of species that are concentrated in winter wet depressions, plant communities on the eastern side of the Swan Coastal Plain (which have largely been cleared for agriculture) and plant communities on the western calcareous sands associated with limestones. Similarly, on the basis of the results presented to date in the Gngangara Mound area it is likely that more rare and priority species will be located on the eastern and western fringes of the Gngangara Mound in Stages 2 and 3.

Heddle *et al.* (1980) defined fourteen vegetation complexes for the wider Gngangara Mound area and 9 of these vegetation complexes occurred within the Stage 1 project area. The vegetation complexes within the current Stage 1 area, on the Quindalup, Spearwood and Bassendean dune systems are relatively well represented in either State Forest areas or conservation reserves within the northern Swan Coastal Plain. The less well represented vegetation complexes occur in Stage 2 on the eastern fringes of the Bassendean dune systems on the interface between the dune systems and the Darling Ranges and Dandaragan Plateau.

A total of 25 site-vegetation types, based on the system developed by Havel (1968) for the northern Swan Coastal Plain were defined for the Gnangara Mound project area. These communities were related to underlying soil and site conditions on the respective Quindalup, Spearwood and Bassendean dune systems as defined by Havel (1968). The 25 site-vegetation types were grouped into 8 structural formations within the Gnangara project area. These structural formations ranged from closed heaths, open heaths, shrublands, low open woodlands, low woodlands, woodlands and open forests.

As indicated by the groupings within the structural formations there is a mosaic of structural formations from heaths to woodlands and forests on both the Spearwood and Bassendean dune systems. The significance of seasonal soil moisture levels and underlying site conditions such as limestone outcropping and degree of leaching in the surface sandy soils are reflected in the local dominance of species and keystone species. The latter reflects the need to expand the mapping beyond the key structural components to include indicator or keystone species that reflect the site conditions. For example, one could utilize key mapping units, key species which occur in these mapping units to define vegetation communities which have been largely cleared on the Gnangara Mound (e.g. B2 – Tuart woodlands), or one could review the moist soil indicators which occur in the site-vegetation types J and K series to reflect potential species that could be affected by further drought conditions on the Gnangara Mound.

The vegetation maps were prepared using field data and the 1:10,000 aerial photograph mosaics. This was a different scale to the one formerly proposed, however the accuracy of boundary determination is more accurate and therefore this scale is recommended for the following Stages 2 and 3 of the project.

7. LIST OF PARTICIPANTS

The following personnel were involved in various stages of the project:

Principal Plant Ecologist and Study Co-ordinator:

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APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
MOUND AREA

* denotes introduced taxa

FAMILY NAME	GENUS	SPECIES
LYCOPIACEAE	<i>Phylloglossum</i>	<i>drummondii</i>
SELAGINELLACEAE	<i>Selaginella</i>	<i>gracillima</i>
DENNSTAEDTIACEAE	<i>Pteridium</i>	<i>esculentum</i>
AZOLLACEAE	<i>Azolla</i>	<i>filiculoides</i>
ZAMIACEAE	<i>Macrozamia</i>	<i>riedlei</i>
PINACEAE	* <i>Pinus</i>	<i>radiata</i>
TYPHACEAE	* <i>Typha</i>	<i>orientalis</i>
JUNCAGINACEAE	<i>Triglochin</i>	<i>centrocarpa</i>
	<i>Triglochin</i>	<i>huegelii/linearis</i>
	<i>Triglochin</i>	<i>linearis</i>
	<i>Triglochin</i>	<i>muelleri</i>
	<i>Triglochin</i>	<i>trichophora</i>
	<i>Triglochin</i>	sp.
POACEAE	<i>Agrostis</i>	<i>avenacea</i>
	* <i>Aira</i>	<i>caryophyllea</i>
	* <i>Aira</i>	sp.
	<i>Amphibromus</i>	<i>nervosus</i>
	<i>Amphipogon</i>	? <i>amphipogonoides</i>
	<i>Amphipogon</i>	<i>laguroides</i>
	<i>Amphipogon</i>	? <i>strictus</i>
	<i>Amphipogon</i>	<i>turbinatus</i>
	<i>Amphipogon</i>	sp.
	<i>Austrodanthonia</i>	<i>occidentalis</i>
	<i>Austrodanthonia</i>	? <i>occidentalis</i>
	<i>Austrodanthonia</i>	sp.
	<i>Austrostipa</i>	<i>compressa</i>
	<i>Austrostipa</i>	<i>flavescens</i>
	<i>Austrostipa</i>	<i>macalpinei</i>
	<i>Austrostipa</i>	? <i>macalpinei</i>
	<i>Austrostipa</i>	sp.
	* <i>Avellinia</i>	<i>micheelii</i>
	* <i>Briza</i>	<i>maxima</i>
	* <i>Briza</i>	<i>minor</i>
	* <i>Briza</i>	sp.

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FAMILY NAME	GENUS	SPECIES
POACEAE	* <i>Bromus</i>	<i>diandrus</i>
continued	* <i>Bromus</i>	<i>rubens</i>
	* <i>Bromus</i>	sp.
	<i>Dichelachne</i>	<i>crinita</i>
	* <i>Ehrharta</i>	<i>calycina</i>
	* <i>Ehrharta</i>	<i>longiflora</i>
	<i>Ehrharta</i>	sp.
	* <i>Holcus</i>	<i>setiger</i>
	* <i>Lolium</i>	<i>multiflorum</i> x <i>perenne</i>
	* <i>Lolium</i>	<i>rigidum</i>
	<i>Microlaena</i>	<i>stipoides</i>
	<i>Microlaena</i>	<i>stipoides</i> var. <i>stipoides</i>
	<i>Notodanthonia</i>	sp.
	* <i>Pentaschistis</i>	<i>airoides</i>
	* <i>Phalaris</i>	<i>minor</i>
	* <i>Poa</i>	<i>annua</i>
	<i>Poa</i>	<i>drummondiana</i>
	<i>Poa</i>	<i>poiformis</i>
	* <i>Poa</i>	<i>pratensis</i>
	<i>Poaceae</i>	sp.
	* <i>Polypogon</i>	<i>monspeliensis</i>
	? <i>Puccinellia</i>	sp.
	* <i>Rostraria</i>	<i>cristata</i>
	* <i>Vulpia</i>	<i>bromoides</i>
	* <i>Vulpia</i>	<i>myuros</i>
	* <i>Vulpia</i>	sp.
CYPERACEAE	<i>Baumea</i>	<i>juncea</i>
	<i>Baumea</i>	<i>vaginalis</i>
	<i>Caustis</i>	<i>dioica</i>
	<i>Chorizandra</i>	<i>enodis</i>
	<i>Cyathochaeta</i>	<i>avenacea</i>
	* <i>Cyperus</i>	<i>tenellus</i>
	<i>Eleocharis</i>	<i>acuta</i>
	<i>Eleocharis</i>	sp.
	? <i>Gahnia</i>	sp.
	<i>Isolepis</i>	<i>cernua</i>
	<i>Isolepis</i>	<i>producta</i>
	* <i>Isolepis</i>	<i>marginata</i>
	<i>Isolepis</i>	<i>nodosa</i>
	<i>Lepidosperma</i>	<i>gladiatum</i>
	<i>Lepidosperma</i>	aff. <i>leptostachyum</i>

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
MOUND AREA

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FAMILY NAME	GENUS	SPECIES
CYPERACEAE	<i>Lepidosperma</i>	<i>longitudinale</i>
continued	<i>Lepidosperma</i>	<i>pubisquameum</i>
	<i>Lepidosperma</i>	<i>tenua</i>
	<i>Lepidosperma</i>	<i>squamatum</i>
	<i>Lepidosperma</i>	sp.
	<i>Mesomelaena</i>	<i>graciliceps</i>
	<i>Mesomelaena</i>	<i>pseudostygia</i>
	<i>Mesomelaena</i>	<i>stygia</i>
	<i>Mesomelaena</i>	<i>tetragona</i>
	<i>Schoenus</i>	<i>asperocarpus</i>
	<i>Schoenus</i>	<i>breviculmis</i>
	<i>Schoenus</i>	<i>brevisetis</i>
	<i>Schoenus</i>	aff. <i>brevisetis</i>
	<i>Schoenus</i>	<i>caespititius</i>
	<i>Schoenus</i>	? <i>caespititius</i>
	<i>Schoenus</i>	<i>clandestinus</i>
	<i>Schoenus</i>	<i>curvifolius</i>
	<i>Schoenus</i>	<i>efoliatus</i>
	<i>Schoenus</i>	<i>grandiflorus</i>
	<i>Schoenus</i>	<i>lanatus</i>
	<i>Schoenus</i>	<i>nanus</i>
	<i>Schoenus</i>	<i>natans</i> (P4)
	<i>Schoenus</i>	<i>odontocarpus</i>
	<i>Schoenus</i>	<i>rigens</i>
	<i>Schoenus</i>	sp.
	<i>Schoenus</i>	? <i>subfascicularis</i>
	<i>Tetraria</i>	<i>capillaris</i>
	<i>Tetraria</i>	<i>octandra</i>
ARACEAE	* <i>Zantedeschia</i>	<i>aethiopica</i>
LEMNACEAE	<i>Lemna</i>	<i>disperma</i>
RESTIONACEAE	<i>Alexgeorgea</i>	<i>nitens</i>
	<i>Anarthria</i>	<i>gracilis</i>
	<i>Chordifex</i>	<i>microcodon</i>
	<i>Desmocladius</i>	<i>fasciculatus</i>
	<i>Desmocladius</i>	<i>flexuosus</i>
	<i>Dielsia</i>	<i>stenostachya</i>
	<i>Ecdeiocolea</i>	<i>monostachya</i>

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
MOUND AREA

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FAMILY NAME	GENUS	SPECIES
RESTIONACEAE	<i>Hypolaena</i>	<i>exsulca</i>
continued	<i>Hypolaena</i>	<i>pubescens</i>
	<i>Lepidobolus</i>	<i>chaetocephalus</i>
	<i>Lepidobolus</i>	<i>preissianus</i>
	<i>Lepidobolus</i>	<i>preissianus</i> subsp. <i>preissianus</i>
	<i>Lepidobolus</i>	sp.
	<i>Loxocarya</i>	<i>cinerea</i>
	<i>Lyginia</i>	<i>barbata</i>
	<i>Meeboldina</i>	<i>cana</i>
	<i>Restio</i>	sp.
CENTROLEPIDACEAE	<i>Aphelia</i>	<i>nutans</i>
	<i>Centrolepis</i>	<i>aristata</i>
	<i>Centrolepis</i>	<i>drummondiana</i>
	<i>Centrolepis</i>	<i>mutica</i>
	<i>Centrolepis</i>	<i>polygyna</i>
HYDATELLACEAE	<i>Trithuria</i>	<i>bibracteata</i>
PHILYDRACEAE	<i>Philydrella</i>	<i>pygmaea</i>
JUNCACEAE	* <i>Juncus</i>	<i>capitatis</i>
	<i>Juncus</i>	sp.
DASYPOGONACEAE	<i>Acanthocarpus</i>	<i>preissii</i>
	<i>Calectasia</i>	<i>cyanea</i> (P2)
	<i>Dasypogon</i>	<i>bromeliifolius</i>
	<i>Dasypogon</i>	sp.
	<i>Lomandra</i>	? <i>brittanii</i>
	<i>Lomandra</i>	<i>caespitosa</i>
	<i>Lomandra</i>	? <i>caespitosa</i>
	<i>Lomandra</i>	<i>hermaphrodita</i>
	<i>Lomandra</i>	? <i>hermaphrodita</i>
	<i>Lomandra</i>	<i>maritima</i>
	<i>Lomandra</i>	<i>micrantha</i>
	<i>Lomandra</i>	<i>nigricans</i>
	<i>Lomandra</i>	<i>preissii</i>
	<i>Lomandra</i>	<i>sericea</i>
	<i>Lomandra</i>	<i>sonderi</i>
	<i>Lomandra</i>	? <i>sonderi</i>
	<i>Lomandra</i>	<i>suaveolens</i>
	<i>Lomandra</i>	sp.

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FAMILY NAME	GENUS	SPECIES
XANTHORRHOEACEAE	<i>Xanthorrhoea</i>	<i>gracilis</i>
	<i>Xanthorrhoea</i>	<i>preissii</i>
PHORMIACEAE	<i>Dianella</i>	<i>revoluta</i>
ANTHERICACEAE	<i>Arnocrinum</i>	<i>preissii</i>
	<i>Borya</i>	<i>sphaerocephala</i>
	<i>Caesia</i>	sp.
	<i>Chamaescilla</i>	<i>corymbosa</i>
	<i>Corynotheca</i>	<i>micrantha</i>
	<i>Dichopogon</i>	<i>capillipes</i>
	<i>Hensmania</i>	<i>turbinata</i>
	<i>Laxmannia</i>	<i>ramosa</i>
	<i>Laxmannia</i>	<i>sessiliflora</i>
	<i>Laxmannia</i>	<i>squarrosa</i>
	<i>Laxmannia</i>	sp.
	<i>Sowerbaea</i>	<i>laxiflora</i>
	<i>Thysanotus</i>	<i>arenarius</i>
	<i>Thysanotus</i>	<i>dichotomus</i>
	<i>Thysanotus</i>	<i>manglesianus</i>
	<i>Thysanotus</i>	<i>manglesianus / patersonii</i>
	<i>Thysanotus</i>	<i>patersonii</i>
	<i>Thysanotus</i>	<i>patersonii / manglesianus</i>
	<i>Thysanotus</i>	sp.
	<i>Thysanotus</i>	<i>sparteus</i>
	<i>Thysanotus</i>	<i>thyrsoideus</i>
	<i>Thysanotus</i>	<i>?thyrsoideus</i>
<i>Thysanotus</i>	<i>triandrus</i>	
<i>Tricoryne</i>	<i>elatior</i>	
<i>Tricoryne</i>	<i>tenella</i>	
COLCHICACEAE	<i>Burchardia</i>	<i>bairdiae</i>
	<i>Burchardia</i>	<i>umbellata</i>
	<i>Wurmbea</i>	<i>dioica</i>
	<i>Wurmbea</i>	<i>monantha</i>
	<i>Wurmbea</i>	<i>pygmaea</i>
	<i>Wurmbea</i>	sp.
HAEMODORACEAE	<i>Anigozanthos</i>	<i>humilis</i>
	<i>Anigozanthos</i>	sp.
	<i>Conostylis</i>	<i>aculeata</i>
	<i>Conostylis</i>	<i>aurea</i>

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FAMILY NAME	GENUS	SPECIES
HAEMODORACEAE continued	<i>Conostylis</i>	<i>candicans</i> subsp. <i>candicans</i>
	<i>Conostylis</i>	<i>juncea</i>
	<i>Conostylis</i>	<i>pauciflora</i>
	<i>Conostylis</i>	<i>pauciflora</i> subsp. <i>euryrhipis</i> (P3)
	<i>Conostylis</i>	<i>serrulata</i>
	<i>Conostylis</i>	<i>setigera</i> subsp. <i>setigera</i>
	<i>Conostylis</i>	<i>setosa</i>
	<i>Conostylis</i>	sp.
	<i>Haemodorum</i>	<i>laxum</i>
	<i>Haemodorum</i>	<i>paniculatum</i>
	<i>Haemodorum</i>	<i>simplex</i>
	<i>Haemodorum</i>	sp.
	<i>Haemodorum</i>	<i>spicatum</i>
	<i>Phlebocarya</i>	<i>ciliata</i>
	<i>Tribonanthes</i>	<i>australis</i>
	<i>Tribonanthes</i>	<i>longipetala</i>
IRIDACEAE	* <i>Gladiolus</i>	<i>caryophyllaceus</i>
	<i>Gladiolus</i>	sp.
	<i>Orthrosanthus</i>	<i>laxus</i>
	<i>Patersonia</i>	<i>occidentalis</i>
	<i>Patersonia</i>	sp.
	* <i>Romulea</i>	<i>obscura</i>
	* <i>Romulea</i>	<i>rosea</i>
ORCHIDACEAE	? <i>Pyrorchis</i>	<i>nigricans</i>
	<i>Caladenia</i>	<i>flava</i> subsp. <i>flava</i>
	<i>Caladenia</i>	<i>latifolia</i>
	<i>Caladenia</i>	<i>marginata</i>
	<i>Caladenia</i>	<i>paludosa</i>
	<i>Caladenia</i>	sp.
	<i>Cyanicula</i>	<i>deformis</i>
	<i>Cyrtostylis</i>	<i>robusta</i>
	<i>Cyrtostylis</i>	sp.
	* <i>Disa</i>	<i>bracteata</i>
	<i>Diuris</i>	<i>longifolia</i>
	<i>Diuris</i>	sp.
	<i>Elythranthera</i>	<i>brunonis</i>
	<i>Eriochilus</i>	<i>dilatatus</i>
	<i>Leporella</i>	<i>fimbriata</i>
	<i>Lyperanthus</i>	<i>serratus</i>
<i>Microtis</i>	<i>alba</i>	

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
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* denotes introduced taxa

FAMILY NAME	GENUS	SPECIES
ORCHIDACEAE continued	<i>Oligochaetochilus</i>	<i>sanguineus</i>
	<i>Oligochaetochilus</i>	<i>vittatus</i>
	<i>Orchidaceae</i>	sp.
	<i>Prasophyllum</i>	<i>drummondii</i>
	<i>Prasophyllum</i>	sp.
	<i>Pterostylis</i>	? <i>brevisepala</i> (ms)
	<i>Pterostylis</i>	aff. <i>nana</i> . csp GJK/NG 1867cbs
	<i>Pterostylis</i>	<i>recurva</i>
	<i>Pterostylis</i>	sp.
	<i>Pterostylis</i>	sp. short sepals (W.JacksonBJ259) (PN)
	<i>Pyrorchis</i>	<i>nigricans</i>
	<i>Thelymitra</i>	<i>antennifera</i>
	<i>Thelymitra</i>	<i>campanulata</i>
	<i>Thelymitra</i>	<i>crinita</i>
	<i>Thelymitra</i>	<i>flexuosa</i>
<i>Thelymitra</i>	sp.	
CASUARINACEAE	<i>Allocasuarina</i>	<i>fraseriana</i>
	<i>Allocasuarina</i>	<i>humilis</i>
	<i>Casuarina</i>	<i>obesa</i>
URTICACEAE	<i>Parietaria</i>	<i>debilis</i>
PROTEACEAE	<i>Adenanthos</i>	<i>barbiger</i>
	<i>Adenanthos</i>	<i>cygnorum</i>
	<i>Adenanthos</i>	<i>cygnorum</i> subsp. <i>cygnorum</i>
	<i>Adenanthos</i>	<i>obovatus</i>
	<i>Adenanthos</i>	sp.
	<i>Banksia</i>	<i>attenuata</i>
	<i>Banksia</i>	<i>grandis</i>
	<i>Banksia</i>	<i>ilicifolia</i>
	<i>Banksia</i>	<i>littoralis</i>
	<i>Banksia</i>	<i>menziesii</i>
	<i>Banksia</i>	<i>prionotes</i>
	<i>Conospermum</i>	<i>acerosum</i> subsp. <i>acerosum</i>
	<i>Conospermum</i>	<i>canaliculatum</i> subsp. <i>canaliculatum</i>
	<i>Conospermum</i>	<i>incurvum</i>
	<i>Conospermum</i>	<i>stoechadis</i> subsp. <i>stoechadis</i>
	<i>Conospermum</i>	<i>triplinervium</i>
	<i>Dryandra</i>	<i>lindleyana</i>
	<i>Dryandra</i>	<i>lindleyana</i> var. <i>lindleyana</i>
<i>Dryandra</i>	<i>nivea</i>	

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
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* denotes introduced taxa

FAMILY NAME	GENUS	SPECIES
PROTEACEAE	<i>Dryandra</i>	<i>sessilis</i>
continued	<i>Grevillea</i>	<i>preissii</i>
	<i>Grevillea</i>	<i>preissii</i> subsp. <i>preissii</i>
	<i>Grevillea</i>	<i>vestita</i>
	<i>Grevillea</i>	<i>vestita</i> subsp. <i>vestita</i>
	<i>Hakea</i>	<i>costata</i>
	<i>Hakea</i>	<i>erinacea</i>
	<i>Hakea</i>	<i>lissocarpha</i>
	<i>Hakea</i>	<i>prostrata</i>
	<i>Hakea</i>	<i>ruscifolia</i>
	<i>Hakea</i>	<i>trifurcata</i>
	<i>Hakea</i>	<i>varia</i>
	<i>Persoonia</i>	<i>comata</i>
	<i>Petrophile</i>	<i>brevifolia</i>
	<i>Petrophile</i>	<i>drummondii</i>
	<i>Petrophile</i>	<i>linearis</i>
	<i>Petrophile</i>	<i>macrostachya</i>
	<i>Petrophile</i>	<i>seminuda</i>
	<i>Petrophile</i>	<i>serruriae</i>
	<i>Petrophile</i>	sp.
	<i>Stirlingia</i>	<i>latifolia</i>
	<i>Synaphea</i>	<i>petiolaris</i>
	<i>Synaphea</i>	<i>spinulosa</i>
	<i>Synaphea</i>	<i>spinulosa</i> subsp. <i>spinulosa</i>
	<i>Synaphea</i>	sp.
SANTALACEAE	<i>Exocarpos</i>	<i>sparteus</i>
	<i>Leptomeria</i>	<i>cunninghamii</i>
	<i>Leptomeria</i>	<i>empetriformis</i>
	<i>Leptomeria</i>	<i>pauciflora</i>
	<i>Santalum</i>	<i>acuminatum</i>
OLACACEAE	<i>Olax</i>	<i>benthamiana</i>
LORANTHACEAE	<i>Nuytsia</i>	<i>floribunda</i>
POLYGONACEAE	<i>Muehlenbeckia</i>	<i>polybotrya</i>
CHENOPODIACEAE	* <i>Atriplex</i>	<i>prostrata</i>
	* <i>Chenopodium</i>	<i>macrospermum</i>
	<i>Rhagodia</i>	<i>baccata</i>
	<i>Rhagodia</i>	<i>baccata</i> subsp. <i>baccata</i>

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
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* denotes introduced taxa

FAMILY NAME	GENUS	SPECIES
CHENOPODIACEAE continued	<i>Threlkedia</i>	<i>diffusa</i>
AMARANTHACEAE	<i>Ptilotus</i>	<i>drummondii</i>
	<i>Ptilotus</i>	<i>drummondii</i> var. <i>drummondii</i>
	<i>Ptilotus</i>	<i>humilis</i> subsp. <i>humilis</i>
	<i>Ptilotus</i>	<i>manglesii</i>
	<i>Ptilotus</i>	<i>polystachyus</i> var. <i>polystachyus</i>
	<i>Ptilotus</i>	sp.
GYROSTEMONACEAE	<i>Tersonia</i>	<i>cyathiflora</i>
AIZOACEAE	* <i>Carpobrotus</i>	<i>edulis</i>
	<i>Carpobrotus</i>	<i>virescens</i>
	<i>Sarcozona</i>	<i>bicarinata</i> (P3)
	* <i>Tetragonia</i>	<i>decumbens</i>
MOLLUGINACEAE	<i>Macarthuria</i>	<i>apetala</i>
PORTULACACEAE	<i>Calandrinia</i>	<i>brevipedata</i>
	<i>Calandrinia</i>	<i>corrigioloides</i>
	<i>Calandrinia</i>	<i>granulifera</i>
	<i>Calandrinia</i>	<i>liniflora</i>
	<i>Calandrinia</i>	sp.
CARYOPHYLLACEAE	<i>Caryophyllaceae</i>	sp.
	* <i>Cerastium</i>	<i>glomeratum</i>
	* <i>Petrorhagia</i>	<i>dubia</i>
	* <i>Sagina</i>	<i>apetala</i>
	* <i>Silene</i>	<i>gallica</i>
	* <i>Stellaria</i>	<i>media</i>
LAURACEAE	<i>Cassytha</i>	<i>flava</i>
	<i>Cassytha</i>	<i>glabella</i>
	<i>Cassytha</i>	<i>pomiformis</i>
	<i>Cassytha</i>	<i>racemosa</i>
	<i>Cassytha</i>	sp.
BRASSICACEAE	<i>Brassica</i>	sp.
	* <i>Heliophila</i>	<i>pusilla</i>
	<i>Lepidium</i>	<i>rotundum</i>
	<i>Stenopetalum</i>	<i>gracile</i>

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
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* denotes introduced taxa

FAMILY NAME	GENUS	SPECIES
DROSERACEAE	<i>Drosera</i>	<i>erythrorhiza</i>
	<i>Drosera</i>	<i>gigantea</i> subsp. <i>gigantea</i>
	<i>Drosera</i>	<i>glanduligera</i>
	<i>Drosera</i>	<i>macrantha</i> subsp. <i>macrantha</i>
	<i>Drosera</i>	<i>menziesii</i>
	<i>Drosera</i>	<i>menziesii</i> subsp. <i>menziesii</i>
	<i>Drosera</i>	<i>menziesii</i> subsp. <i>penicillaris</i>
	<i>Drosera</i>	<i>neesii</i>
	<i>Drosera</i>	<i>nitidula</i>
	<i>Drosera</i>	<i>paleacea</i>
	<i>Drosera</i>	<i>pallida</i>
	<i>Drosera</i>	<i>rosulata</i>
	<i>Drosera</i>	sp.
	<i>Drosera</i>	sp. climbing
CRASSULACEAE	<i>Crassula</i>	<i>colorata</i>
	<i>Crassula</i>	? <i>colorata</i>
	<i>Crassula</i>	<i>colorata</i> var. <i>acuminata</i>
	<i>Crassula</i>	<i>exserta</i>
	* <i>Crassula</i>	<i>glomerata</i>
	* <i>Crassula</i>	<i>natans</i>
	<i>Crassula</i>	sp.
MIMOSACEAE	<i>Acacia</i>	<i>alata</i> var. <i>tetrantha</i>
	<i>Acacia</i>	<i>barbinervis</i> subsp. <i>borealis</i>
	<i>Acacia</i>	<i>benthamii</i> (P2)
	<i>Acacia</i>	<i>cochlearis</i>
	<i>Acacia</i>	<i>cyclops</i>
	<i>Acacia</i>	<i>huegelii</i>
	<i>Acacia</i>	<i>lasiocarpa</i>
	<i>Acacia</i>	<i>lasiocarpa</i> var. <i>lasiocarpa</i>
	<i>Acacia</i>	<i>pulchella</i>
	<i>Acacia</i>	<i>pulchella</i> var. <i>glaberrima</i>
	<i>Acacia</i>	<i>rostelifera</i>
	<i>Acacia</i>	<i>saligna</i>
	<i>Acacia</i>	<i>sessilis</i>
	<i>Acacia</i>	<i>stenoptera</i>
	<i>Acacia</i>	<i>truncata</i>
	<i>Acacia</i>	<i>xanthina</i>
	<i>Acacia</i>	sp.

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
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* denotes introduced taxa

FAMILY NAME	GENUS	SPECIES
PAPILIONACEAE	<i>Aotus</i>	<i>gracillima</i>
	<i>Aotus</i>	<i>procumbens</i>
	<i>Bossiaea</i>	<i>eriocarpa</i>
	<i>Cristonia</i>	<i>biloba</i>
	<i>Daviesia</i>	<i>decurrens</i>
	<i>Daviesia</i>	<i>decurrens</i> subsp. <i>decurrens</i> (ms)
	<i>Daviesia</i>	<i>divaricata</i> subsp. <i>divaricata</i> (ms)
	<i>Daviesia</i>	<i>nudiflora</i>
	<i>Daviesia</i>	<i>physodes</i>
	<i>Daviesia</i>	<i>podophylla</i>
	<i>Daviesia</i>	<i>quadrilatera</i>
	<i>Dillwynia</i>	<i>dillwynioides</i> (P3)
	<i>Euchilopsis</i>	<i>linearis</i>
	<i>Gompholobium</i>	<i>capitatum</i>
	<i>Gompholobium</i>	<i>confertum</i>
	<i>Gompholobium</i>	<i>knightianum</i>
	<i>Gompholobium</i>	<i>scabrum</i>
	<i>Gompholobium</i>	<i>shuttleworthii</i>
	<i>Gompholobium</i>	<i>tomentosum</i>
	<i>Gompholobium</i>	sp.
	<i>Hardenbergia</i>	<i>comptoniana</i>
	<i>Hovea</i>	<i>pungens</i>
	<i>Hovea</i>	<i>trisperma</i>
	<i>Isotropis</i>	<i>cuneifolia</i>
	<i>Isotropis</i>	sp.
	<i>Jacksonia</i>	<i>calcicola</i> (ms)
	<i>Jacksonia</i>	<i>fasciculata</i>
	<i>Jacksonia</i>	<i>floribunda</i>
	<i>Jacksonia</i>	<i>furcellata</i>
	<i>Jacksonia</i>	<i>hakeoides</i>
	<i>Jacksonia</i>	<i>sericea</i> (P3)
	<i>Jacksonia</i>	<i>sternbergiana</i>
	<i>Kennedia</i>	<i>prostrata</i>
	<i>Kennedia</i>	sp.
<i>Latrobea</i>	<i>tenella</i> var. <i>tenella</i>	
* <i>Lotus</i>	<i>angustissimus</i>	
* <i>Lotus</i>	<i>suaveolens</i>	
* <i>Melilotus</i>	<i>indicus</i>	
<i>Nemcia</i>	<i>capitata</i>	
<i>Nemcia</i>	<i>reticulata</i>	
<i>Pultenaea</i>	<i>reticulata</i>	
<i>Sphaerolobium</i>	<i>vimineum</i>	

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
MOUND AREA

* denotes introduced taxa

FAMILY NAME	GENUS	SPECIES
PAPILIONACEAE	<i>Sphaerolobium</i>	sp.
continued	<i>Templetonia</i>	<i>retusa</i>
	* <i>Trifolium</i>	<i>arvense</i>
	* <i>Trifolium</i>	<i>campestre</i> var. <i>campestre</i>
	* <i>Trifolium</i>	<i>cernuum</i>
	* <i>Trifolium</i>	<i>dubium</i>
	* <i>Trifolium</i>	sp.
GERANIACEAE	* <i>Erodium</i>	<i>botrys</i>
	* <i>Erodium</i>	<i>cicutarium</i>
	* <i>Erodium</i>	<i>moschatum</i>
	<i>Geranium</i>	<i>retrorsum</i>
	<i>Geranium</i>	<i>solanderi</i>
	* <i>Pelargonium</i>	<i>capitatum</i>
	<i>Pelargonium</i>	<i>littorale</i>
OXALIDACEAE	<i>Oxalis</i>	<i>perennans</i>
	* ? <i>Oxalis</i>	<i>corniculata</i>
RUTACEAE	<i>Boronia</i>	<i>purdieana</i>
	<i>Boronia</i>	<i>purdieana</i> subsp. <i>purdieana</i>
	<i>Boronia</i>	<i>ramosa</i>
	<i>Boronia</i>	<i>ramosa</i> subsp. <i>anethifolia</i>
	<i>Boronia</i>	<i>ramosa</i> subsp. <i>ramosa</i>
	<i>Diplolaena</i>	<i>angustifolia</i>
	<i>Philothea</i>	<i>spicata</i>
TREMANDRACEAE	<i>Platytheca</i>	<i>galioides</i>
POLYGALACEAE	<i>Comesperma</i>	<i>calymega</i>
	<i>Comesperma</i>	<i>confertum</i>
	<i>Comesperma</i>	<i>integerrimum</i>
	<i>Comesperma</i>	sp.
EUPHORBIACEAE	<i>Amperea</i>	<i>ericoides</i>
	<i>Beyeria</i>	<i>cinerea</i>
	* <i>Euphorbia</i>	<i>terraccina</i>
	<i>Phyllanthus</i>	<i>calycinus</i>
	<i>Poranthera</i>	<i>ericoides</i>
	<i>Poranthera</i>	<i>microphylla</i>
	<i>Stachystemon</i>	<i>axillaris</i> (P4)

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
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FAMILY NAME	GENUS	SPECIES
STACKHOUSIACEAE	<i>Stackhousia</i>	<i>monogyna</i>
	<i>Stackhousia</i>	sp.
	<i>Tripterococcus</i>	<i>brunonis</i>
SAPINDACEAE	<i>Diplopeltis</i>	<i>huegelii</i>
RHAMNACEAE	<i>Cryptandra</i>	<i>mutila</i>
	<i>Cryptandra</i>	<i>pungens</i>
	<i>Spyridium</i>	<i>globulosum</i>
	<i>Trymalium</i>	<i>floribundum</i>
MALVACEAE	<i>Alyogyne</i>	<i>huegelii</i>
STERCULIACEAE	<i>Thomasia</i>	<i>triphylla</i>
DILLENiaceae	<i>Hibbertia</i>	aff. <i>pachyrrhiza</i>
	<i>Hibbertia</i>	<i>aurea</i>
	<i>Hibbertia</i>	<i>crassifolia</i>
	<i>Hibbertia</i>	aff. <i>helianthemoides</i>
	<i>Hibbertia</i>	<i>huegelii</i>
	<i>Hibbertia</i>	<i>hypericoides</i>
	<i>Hibbertia</i>	<i>pachyrrhiza</i>
	<i>Hibbertia</i>	<i>racemosa</i>
	<i>Hibbertia</i>	sp.
	<i>Hibbertia</i>	<i>spicata</i>
	<i>Hibbertia</i>	<i>spicata</i> subsp. <i>leptothea</i> (P3)
	<i>Hibbertia</i>	<i>stellaris</i>
	<i>Hibbertia</i>	<i>subvaginata</i>
VIOLACEAE	<i>Hybanthus</i>	<i>calycinus</i>
THYMELAEACEAE	<i>Pimelea</i>	<i>calcicola</i>
	<i>Pimelea</i>	<i>ferruginea</i>
	<i>Pimelea</i>	<i>floribunda</i>
	<i>Pimelea</i>	<i>rosea</i>
	<i>Pimelea</i>	sp.
	<i>Pimelea</i>	<i>suaveolens</i>
	<i>Pimelea</i>	<i>sulphurea</i>

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FAMILY NAME	GENUS	SPECIES
MYRTACEAE	<i>Agonis</i>	<i>flexuosa</i>
	<i>Agonis</i>	<i>linearifolia</i>
	<i>Astartea</i>	<i>fascicularis</i>
	<i>Baeckea</i>	<i>camphorosmae</i>
	<i>Baeckea</i>	<i>robusta</i>
	<i>Baeckea</i>	sp.
	<i>Beaufortia</i>	<i>elegans</i>
	<i>Calothamnus</i>	<i>lateralis</i>
	<i>Calothamnus</i>	<i>quadrifidus</i>
	<i>Calothamnus</i>	<i>sanguineus</i>
	<i>Calytrix</i>	<i>angulata</i>
	<i>Calytrix</i>	<i>flavescens</i>
	<i>Calytrix</i>	<i>fraseri</i>
	<i>Calytrix</i>	<i>sapphirina</i>
	<i>Calytrix</i>	<i>strigosa</i>
	<i>Corymbia</i>	<i>calophylla</i>
	<i>Eremaea</i>	<i>asterocarpa</i> subsp. <i>asterocarpa</i>
	<i>Eremaea</i>	<i>beaufortioides</i>
	<i>Eremaea</i>	<i>brevifolia</i>
	<i>Eremaea</i>	<i>pauciflora</i>
	<i>Eremaea</i>	<i>pauciflora</i> var. <i>pauciflora</i>
	<i>Eremaea</i>	sp.
	<i>Eucalyptus</i>	<i>decepiens</i>
	<i>Eucalyptus</i>	<i>decepiens</i> subsp. <i>decepiens</i>
	<i>Eucalyptus</i>	<i>foecunda</i>
	<i>Eucalyptus</i>	<i>gomphocephala</i>
	<i>Eucalyptus</i>	<i>marginata</i>
	<i>Eucalyptus</i>	<i>petrensis</i>
	<i>Eucalyptus</i>	<i>rudis</i>
	<i>Eucalyptus</i>	<i>todtiana</i>
	<i>Hypocalymma</i>	<i>angustifolium</i>
	<i>Hypocalymma</i>	<i>xanthopetalum</i>
	<i>Kunzea</i>	<i>ericifolia</i>
	<i>Kunzea</i>	<i>ericifolia</i> subsp. <i>ericifolia</i>
	<i>Kunzea</i>	<i>recurva</i>
	<i>Leptospermum</i>	<i>spinescens</i>
	<i>Melaleuca</i>	<i>cardiophylla</i>
	<i>Melaleuca</i>	<i>huegelii</i>
	<i>Melaleuca</i>	<i>lateriflora</i>
	<i>Melaleuca</i>	aff. <i>trichophylla</i>
<i>Melaleuca</i>	<i>preissiana</i>	
<i>Melaleuca</i>	<i>rhapsiophylla</i>	

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* denotes introduced taxa

FAMILY NAME	GENUS	SPECIES
MYRTACEAE	<i>Melaleuca</i>	<i>scabra</i>
continued	<i>Melaleuca</i>	<i>seriata</i>
	<i>Melaleuca</i>	<i>systema</i>
	<i>Melaleuca</i>	aff. <i>systema</i>
	<i>Melaleuca</i>	? <i>systema</i>
	<i>Melaleuca</i>	<i>teretifolia</i>
	<i>Melaleuca</i>	<i>trichophylla</i>
	<i>Melaleuca</i>	? <i>trichophylla</i>
	<i>Melaleuca</i>	<i>viminea</i>
	<i>Melaleuca</i>	sp.
	<i>Myrtaceae</i>	sp.
	<i>Pericalymma</i>	<i>ellipticum</i>
	<i>Pericalymma</i>	<i>ellipticum</i> var. <i>ellipticum</i>
	<i>Regelia</i>	<i>ciliata</i>
	<i>Regelia</i>	? <i>ciliata</i>
	<i>Regelia</i>	<i>inops</i>
	<i>Scholtzia</i>	<i>involucrata</i>
	<i>Scholtzia</i>	sp.
	<i>Verticordia</i>	<i>densiflora</i>
	<i>Verticordia</i>	<i>densiflora</i> var. <i>densiflora</i>
	<i>Verticordia</i>	<i>nitens</i>
	<i>Verticordia</i>	<i>ovalifolia</i>
	<i>Verticordia</i>	<i>plumosa</i>
HALORAGACEAE	<i>Gonocarpus</i>	? <i>pithyoides</i>
	<i>Gonocarpus</i>	<i>cordiger</i>
	<i>Gonocarpus</i>	<i>pithyoides</i>
	<i>Gonocarpus</i>	sp.
APIACEAE	<i>Daucus</i>	<i>glochidiatus</i>
	<i>Eryngium</i>	<i>pinnatifidum</i> subsp. <i>palustre</i> (ms)
	<i>Homalosciadium</i>	<i>homalocarpum</i>
	<i>Hydrocotyle</i>	<i>alata</i>
	<i>Hydrocotyle</i>	<i>blepharocarpa</i>
	<i>Hydrocotyle</i>	<i>callicarpa</i>
	<i>Hydrocotyle</i>	<i>hispidula</i>
	<i>Hydrocotyle</i>	<i>pilifera</i> var. <i>glabrata</i>
	<i>Hydrocotyle</i>	<i>tetragonocarpa</i>
	<i>Hydrocotyle</i>	sp.
	<i>Schoenolaena</i>	<i>juncea</i>
	<i>Trachymene</i>	<i>coerulea</i>
	<i>Trachymene</i>	<i>pilosa</i>

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
MOUND AREA

* denotes introduced taxa

FAMILY NAME	GENUS	SPECIES
APIACEAE	<i>Xanthosia</i>	<i>ciliata</i>
continued	<i>Xanthosia</i>	<i>huegelii</i>
EPACRIDACEAE	<i>Andersonia</i>	<i>heterophylla</i>
	<i>Andersonia</i>	<i>lehmanniana</i>
	<i>Andersonia</i>	<i>lehmanniana</i> subsp. <i>lehmanniana</i>
	<i>Astroloma</i>	<i>microcalyx</i>
	<i>Astroloma</i>	<i>pallidum</i>
	<i>Astroloma</i>	<i>xerophyllum</i>
	<i>Conostephium</i>	<i>minus</i> (P4)
	<i>Conostephium</i>	<i>pendulum</i>
	<i>Conostephium</i>	<i>preissii</i>
	<i>Croninia</i>	<i>kingiana</i>
	<i>Leucopogon</i>	<i>conostephioides</i>
	<i>Leucopogon</i>	<i>leptanthus</i>
	<i>Leucopogon</i>	<i>oxycedrus</i>
	<i>Leucopogon</i>	<i>parviflorus</i>
	<i>Leucopogon</i>	<i>polymorphus</i>
	<i>Leucopogon</i>	<i>propinquus</i>
	<i>Leucopogon</i>	<i>racemulosus</i>
	<i>Leucopogon</i>	<i>sprengelioides</i>
	<i>Leucopogon</i>	? <i>sprengelioides</i>
	<i>Leucopogon</i>	<i>squarrosus</i>
	<i>Leucopogon</i>	sp.
	<i>Leucopogon</i>	sp. (indeterminant) M137-1
	<i>Lysinema</i>	<i>ciliatum</i>
	<i>Lysinema</i>	<i>elegans</i>
PRIMULACEAE	* <i>Anagallis</i>	<i>arvensis</i>
LOGANIACEAE	<i>Phyllangium</i>	<i>paradoxum</i>
GENTIANACEAE	* <i>Centaurium</i>	<i>erythraea</i>
	* <i>Cicendia</i>	<i>filiformis</i>
MENYANTHACEAE	<i>Villarsia</i>	<i>capitata</i>
BORAGINACEAE	<i>Heliotropium</i>	<i>curassavicum</i>
LAMIACEAE	<i>Hemiandra</i>	<i>pungens</i>
	<i>Hemigenia</i>	? <i>incana</i>
	<i>Westringia</i>	<i>dampieri</i>

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
MOUND AREA

* denotes introduced taxa

FAMILY NAME	GENUS	SPECIES
SOLANACEAE	* <i>Solanum</i>	<i>americanum</i>
	* <i>Solanum</i>	<i>nigrum</i>
SCROPHULARIACEAE	* <i>Dischisma</i>	<i>arenarium</i>
	* <i>Dischisma</i>	sp.
	<i>Glossostigma</i>	<i>diandrum</i>
	<i>Gratiola</i>	<i>pubescens</i>
	* <i>Parentucellia</i>	<i>latifolia</i>
OROBANCHACEAE	* <i>Orobanche</i>	<i>minor</i>
LENTIBULARIACEAE	<i>Utricularia</i>	<i>multifida</i>
	<i>Utricularia</i>	<i>violacea</i>
MYOPORACEAE	<i>Eremophila</i>	<i>glabra</i>
	<i>Myoporum</i>	<i>insulare</i>
RUBIACEAE	* <i>Galium</i>	<i>murale</i>
	<i>Opercularia</i>	<i>echinocephala</i>
	<i>Opercularia</i>	sp.
	<i>Opercularia</i>	<i>spermacoea</i>
	<i>Opercularia</i>	<i>vaginata</i>
CAMPANULACEAE	* <i>Wahlenbergia</i>	<i>capensis</i>
	<i>Wahlenbergia</i>	<i>preissii</i>
LOBELIACEAE	<i>Isotoma</i>	<i>hypocrateriformis</i>
	<i>Lobelia</i>	<i>alata</i>
	<i>Lobelia</i>	<i>heterophylla</i>
	<i>Lobelia</i>	sp.
	<i>Lobelia</i>	<i>tenuior</i>
	* <i>Monopsis</i>	<i>debilis</i>
GOODENIACEAE	<i>Dampiera</i>	<i>linearis</i>
	<i>Dampiera</i>	sp.
	<i>Goodenia</i>	<i>micrantha</i>
	<i>Lechenaultia</i>	<i>biloba</i>
	<i>Lechenaultia</i>	<i>expansa</i>
	<i>Lechenaultia</i>	<i>floribunda</i>
	<i>Lechenaultia</i>	<i>linarioides</i>
	<i>Scaevola</i>	<i>canescens</i>
	<i>Scaevola</i>	? <i>canescens</i>

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
MOUND AREA

* denotes introduced taxa

FAMILY NAME	GENUS	SPECIES
GOODENIACEAE continued	<i>Scaevola</i>	<i>crassifolia</i>
	<i>Scaevola</i>	<i>crassifolia</i> / <i>nitida</i>
	<i>Scaevola</i>	<i>nitida</i>
	<i>Scaevola</i>	<i>paludosa</i> (P2)
	<i>Scaevola</i>	<i>repens</i>
	<i>Scaevola</i>	<i>repens</i> var. <i>angustifolia</i>
	<i>Scaevola</i>	<i>repens</i> var. <i>repens</i>
	<i>Scaevola</i>	<i>thesioides</i>
	<i>Scaevola</i>	sp.
	<i>Velleia</i>	<i>trinervis</i>
	<i>Verreauxia</i>	<i>reinwardtii</i>
	STYLIDIACEAE	<i>Levenhookia</i>
<i>Levenhookia</i>		<i>stipitata</i>
<i>Levenhookia</i>		sp.
<i>Stylidium</i>		<i>adpressum</i>
<i>Stylidium</i>		<i>amoenum</i>
<i>Stylidium</i>		<i>brunonianum</i> subsp. <i>brunonianum</i>
<i>Stylidium</i>		<i>bulbiferum</i>
<i>Stylidium</i>		<i>calcaratum</i>
<i>Stylidium</i>		<i>crossocephalum</i>
<i>Stylidium</i>		<i>diuroides</i> subsp. <i>diuroides</i>
<i>Stylidium</i>		<i>inundatum</i>
<i>Stylidium</i>		<i>junceum</i>
<i>Stylidium</i>		<i>lateriticola</i>
<i>Stylidium</i>		<i>longitubum</i> (P3)
<i>Stylidium</i>		<i>macrocarpum</i>
<i>Stylidium</i>		<i>maritimum</i>
<i>Stylidium</i>		<i>miniatum</i>
<i>Stylidium</i>		<i>petiolare</i>
<i>Stylidium</i>		<i>piliferum</i> subsp. <i>piliferum</i>
<i>Stylidium</i>		<i>repens</i>
<i>Stylidium</i>		<i>schoenoides</i>
<i>Stylidium</i>	sp.	
ASTERACEAE	* <i>Arctotheca</i>	<i>calendula</i>
	<i>Asteraceae</i>	sp.
	<i>Asteridea</i>	<i>pulverulenta</i>
	<i>Blennospora</i>	sp.
	<i>Brachyscome</i>	<i>iberidifolia</i>
	<i>Brachyscome</i>	sp.
	* <i>Conyza</i>	<i>albida</i>

APPENDIX A: VASCULAR PLANT SPECIES RECORDED IN THE GNANGARA
MOUND AREA

* denotes introduced taxa

FAMILY NAME	GENUS	SPECIES
ASTERACEAE	<i>Conyza</i>	sp.
continued	<i>Cotula</i>	<i>coronopifolia</i>
	<i>Euchiton</i>	<i>sphaericus</i>
	<i>Gnephosis</i>	<i>tenuissima</i>
	<i>Hyalosperma</i>	<i>cotula</i>
	* <i>Hypochaeris</i>	<i>glabra</i>
	* <i>Hypochaeris</i>	sp.
	<i>Lagenophora</i>	<i>huegelii</i>
	<i>Leptorhynchus</i>	<i>scaber</i>
	<i>Millotia</i>	<i>tenuifolia</i> var. <i>tenuifolia</i>
	<i>Myriocephalus</i>	<i>helichrysoides</i>
	<i>Olearia</i>	<i>axillaris</i>
	<i>Olearia</i>	<i>rudis</i>
	<i>Ozothamnus</i>	<i>cordatus</i>
	<i>Pithocarpa</i>	<i>corymbulosa</i> (P2)
	<i>Pithocarpa</i>	sp.
	<i>Podolepis</i>	<i>gracilis</i>
	<i>Podolepis</i>	<i>lessonii</i>
	<i>Podotheca</i>	<i>angustifolia</i>
	<i>Podotheca</i>	<i>angustifolia</i> / <i>gnaphalioides</i> ?
	<i>Podotheca</i>	<i>chrysantha</i>
	<i>Podotheca</i>	? <i>chrysantha</i>
	<i>Podotheca</i>	<i>gnaphalioides</i>
	<i>Podotheca</i>	sp.
	<i>Pogonolepis</i>	<i>stricta</i>
	<i>Quinetia</i>	<i>urvillei</i>
	<i>Rhodanthe</i>	<i>citrina</i>
	<i>Rhodanthe</i>	<i>corymbosa</i>
	<i>Rhodanthe</i>	sp.
	<i>Senecio</i>	<i>lautus</i>
	<i>Senecio</i>	<i>lautus</i> subsp. <i>dissectifolius</i>
	<i>Senecio</i>	<i>lautus</i> subsp. <i>maritimus</i>
	<i>Senecio</i>	sp.
	<i>Siloxerus</i>	<i>humifusus</i>
	* <i>Sonchus</i>	<i>oleraceus</i>
	* <i>Ursinia</i>	<i>anthemoides</i>
	* <i>Vellereophyton</i>	<i>dealbatum</i>
	<i>Waitzia</i>	sp.
	<i>Waitzia</i>	<i>suaveolens</i> var. <i>suaveolens</i>

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION CODES FOR SITES IN STAGE 1

* Denotes introduced species

Map No.	Site Name	Gibson Community Description	Vegetation Codes
343	BAMB1	Flat Seasonally Inundated Low Open Woodland of <i>Melaleuca raphiophylla</i> , <i>Casuarina obesa</i> , <i>Acacia saligna</i> over <i>Melaleuca viminea</i> and <i>Kunzea recurva</i> .	K2
344	BAMB2	Seasonal Wetland with <i>Casuarina obesa</i> over <i>Phyllanthus carycinus</i> and <i>Lemna disperma</i> .	K2
345	BAMB3	Seasonally Inundated Shrubland of <i>Acacia saligna</i> , <i>Isoetis cuneifolia</i> over <i>Schoenolaena juncea</i> , <i>Baumea juncea</i> and <i>Isoetis cuneifolia</i> .	K5
152	ELDO1	Low Woodland of <i>Banksia attenuata</i> , <i>Banksia menziesii</i> and <i>Eucalyptus tottiana</i> over <i>Adenanthos cygnorum</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Xanthorrhoea preissii</i> and <i>Beaufortia elegans</i> .	G2
561	MILT1	Woodland of <i>Banksia littoralis</i> - <i>Nuyisia floribunda</i> - <i>Banksia prionotes</i> - <i>Banksia ilicifolia</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Adenanthos cygnorum</i> , <i>Pericalymma ellipticum</i> , <i>Stirlingia latifolia</i> and <i>Petrophile seminuda</i> .	I1
568	MILT2	Deeper Wetlands with <i>Melaleuca raphiophylla</i> - <i>Eucalyptus rudis</i> - <i>Melaleuca preissiana</i> over <i>Agonis linearifolia</i> , <i>Pteridium esculentum</i> , <i>Lepidosperma gladiatum</i> and <i>Baumea juncea</i> .	K2
569	MILT3	Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> over <i>Beaufortia elegans</i> , <i>Scholtzia involucrata</i> , <i>Eremaea pauciflora</i> , <i>Leucopogon conostephioides</i> , <i>Jacksonia floribunda</i> , <i>Patersonia occidentalis</i> and <i>Stirlingia latifolia</i> .	H1
570	MILT4	Woodland of <i>Eucalyptus tottiana</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Eremaea pauciflora</i> , <i>Jacksonia sternbergiana</i> , <i>Jacksonia furcellata</i> , <i>Acacia pulchella</i> , <i>Xanthorrhoea preissii</i> , <i>Patersonia occidentalis</i> , <i>Lomandra sericea</i> and <i>Lomandra caespitosa</i> .	F1
571	MILT5	Deeper Wetlands with <i>Banksia littoralis</i> - <i>Melaleuca raphiophylla</i> - <i>Melaleuca preissiana</i> over <i>Kunzea ericifolia</i> , <i>Regelia ciliata</i> , <i>Melaleuca lateriflora</i> , <i>Acacia pulchella</i> , <i>Jacksonia furcellata</i> , <i>Baumea vaginalis</i> and <i>Oligochaetochilus vittatus</i> .	K2
572	MILT6	Woodland of <i>Corymbia calophylla</i> - <i>Banksia attenuata</i> - <i>Banksia ilicifolia</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Jacksonia furcellata</i> , <i>Hibbertia subvaginata</i> , <i>Macrozamia riedlei</i> and <i>Lepidosperma squamatum</i> .	J2
573	MILT7	Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Adenanthos cygnorum</i> , <i>Jacksonia floribunda</i> , <i>Leucopogon squarrosus</i> , <i>Stirlingia latifolia</i> , <i>Dasyopogon bromeliifolius</i> and <i>Patersonia occidentalis</i> .	H1
574	MILT8	Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> over <i>Verticordia nitens</i> , <i>Conostephium minus</i> (P4), <i>Adenanthos cygnorum</i> , <i>Jacksonia floribunda</i> and <i>Dasyopogon bromeliifolius</i> .	I1
601	MUCK1	Woodland of <i>Banksia ilicifolia</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Eremaea pauciflora</i> , <i>Hibbertia subvaginata</i> , <i>Dasyopogon bromeliifolius</i> , <i>Melaleuca trichophylla</i> and <i>Amphipogon turbinatus</i> .	H1
602	MUCK2	Low Open Shrubland of <i>Melaleuca lateriflora</i> , <i>Astartea fascicularis</i> , <i>Lobelia tenuior</i> , <i>Goodenia micrantha</i> , <i>Gnephosis tenuissima</i> with numerous weed species.	K5
657	PLINE1	Low Woodland of <i>Banksia attenuata</i> , <i>Banksia menziesii</i> over <i>Beaufortia elegans</i> , <i>Melaleuca systena</i> , <i>Jacksonia floribunda</i> and <i>Conostephium pendulum</i> .	F1

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION CODES FOR SITES IN STAGE 1

* Denotes introduced species

Map No.	Site Name	Gibson Community Description	Vegetation Codes
658	PLINE2	Woodland of <i>Banksia attenuata</i> , <i>Banksia menziesii</i> over <i>Adenanthos cygnorum</i> , <i>Astroloma xerophyllum</i> , <i>Melaleuca systena</i> and <i>Acacia huegelii</i> .	G1
659	PLINE3	Woodland of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> over <i>Xanthorrhoea preissii</i> , <i>Conostephium pendulum</i> , <i>Baeckea camphorosmae</i> and <i>Dasyopogon bromeliifolius</i> .	I1
660	PLINE4	Seasonally Inundated Open Woodland of <i>Melaleuca preissiana</i> and <i>Banksia ilicifolia</i> over <i>Pericalymma ellipticum</i> .	K1
661	PLINE5	Low Open Woodland of <i>Nuytsia floribunda</i> over <i>Hakea varia</i> , <i>Kunzea ericifolia</i> , <i>Leucopogon propinquus</i> and <i>Ptilotus humilis</i> subsp. <i>humilis</i> .	K3
662	PLINE6	Woodland of <i>Banksia attenuata</i> - <i>Banksia ilicifolia</i> over <i>Adenanthos cygnorum</i> , <i>Regelia ciliata</i> and <i>Stirlingia latifolia</i> .	H1
663	PLINE7	Low Lying Woodland of <i>Eucalyptus rudis</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Melaleuca preissiana</i> over <i>Kunzea ericifolia</i> , <i>Conostephium minus</i> (P4), <i>Conostephium pendulum</i> , <i>Gompholobium scabrum</i> and <i>Jacksonia furcellata</i> .	K1
671	RAAF1	Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Acacia huegelii</i> , <i>Beaufortia elegans</i> , <i>Calytrix flavescens</i> and <i>Jacksonia floribunda</i> .	C1
672	RAAF2	Woodland of <i>Eucalyptus tottiana</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Nuytsia floribunda</i> over <i>Allocasuarina humilis</i> , <i>Calytrix flavescens</i> , <i>Eremaea pauciflora</i> and <i>Melaleuca trichophylla</i> .	G1
673	RAAF3	Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Acacia pulchella</i> , <i>Eremaea pauciflora</i> , <i>Jacksonia floribunda</i> and <i>Calytrix flavescens</i> .	C1
692	SHE1	Shrubland of <i>Dryandra sessilis</i> , <i>Conospermum triplinervium</i> , <i>Hibbertia hypericoides</i> , <i>Grevillea preissii</i> , <i>Dryandra nivea</i> , <i>Leucopogon parviflorus</i> , <i>Trachymene pilosa</i> , <i>Mesomelaena pseudostygia</i> and <i>Lepidosperma squamatum</i> .	A1
693	SHE2	Woodland of <i>Eucalyptus tottiana</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Acacia pulchella</i> , <i>Conostephium pendulum</i> , <i>Eremaea pauciflora</i> , <i>Hakea ruscifolia</i> , <i>Melaleuca systena</i> , <i>Petrophile macrostachya</i> and <i>Xanthorrhoea preissii</i> .	B1
694	SHE3	Woodland of <i>Banksia attenuata</i> over <i>Conospermum triplinervium</i> , <i>Jacksonia hakeoides</i> , <i>Petrophile macrostachya</i> , <i>Dryandra sessilis</i> , <i>Xanthorrhoea preissii</i> , <i>Melaleuca systena</i> , <i>Kennedia prostrata</i> and <i>Lomandra suaveolens</i> .	B2
695	SHE4	Shrubland of <i>Melaleuca systena</i> , <i>Baeckea robusta</i> , <i>Grevillea preissii</i> , <i>Beyeria cinerea</i> , <i>Spyridium globulosum</i> , <i>Acacia lasiocarpa</i> , <i>Phyllanthus calycinus</i> , <i>Dryandra nivea</i> , <i>Lobelia tenuior</i> , <i>Dryandra sessilis</i> and <i>Calothamnus quadrifidus</i> .	A1
696	SHE5	Shrubland of <i>Melaleuca huegelii</i> , <i>Melaleuca systena</i> , <i>Acacia lasiocarpa</i> , <i>Acacia truncata</i> , <i>Templetonia retusa</i> , <i>Dryandra sessilis</i> , <i>Hardenbergia comptoniana</i> and <i>Rhagodia baccata</i> .	A1

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION CODES FOR SITES IN STAGE 1

* Denotes introduced species

Map No.	Site Name	Gibson Community Description	Vegetation Codes
697	SHE6	Woodland of <i>Eucalyptus gomphocephala</i> - <i>Banksia attenuata</i> - <i>Nuyisia floribunda</i> over <i>Macrozamia riedlei</i> , <i>Desmocladius flexuosus</i> , <i>Dryandra nivea</i> , <i>Hibbertia hypericoides</i> and <i>Hibbertia racemosa</i> .	B2
739	WABL1	Shrubland of <i>Acacia lasiocarpa</i> , <i>Acacia rostellifera</i> , <i>Comesperma integerrimum</i> , <i>Conostylis candidans</i> subsp. <i>candidans</i> , <i>Dryandra sessilis</i> and <i>Melaleuca huegelii</i> .	A1
740	WABL2	Woodland of <i>Eucalyptus decipiens</i> subsp. <i>decipiens</i> - <i>Banksia grandis</i> over <i>Acacia pulchella</i> , <i>Dryandra sessilis</i> , <i>Xanthorrhoea preissii</i> , <i>Jacksonia fasciculata</i> , <i>Melaleuca systema</i> and <i>Stirlingia latifolia</i> .	B3
741	WABL3	Woodland of <i>Eucalyptus focunda</i> over <i>Melaleuca systema</i> , <i>Melaleuca huegelii</i> , <i>Hibbertia hypericoides</i> , <i>Hakea lissocarpa</i> , <i>Dryandra sessilis</i> and <i>Leucopogon parviflorus</i> .	B3
742	WABL4	Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Adenanthos cygnorum</i> , <i>Dryandra sessilis</i> , <i>Hakea prostrata</i> , <i>Petrophile macrostachya</i> and <i>Xanthorrhoea preissii</i> .	C1
760	WATER1	Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Nuyisia floribunda</i> over <i>Acacia pulchella</i> , <i>Calothamnus quadrifidus</i> , <i>Eremaea pauciflora</i> , <i>Hakea ruscifolia</i> , <i>Melaleuca systema</i> and <i>Xanthorrhoea preissii</i> .	F1
?836	WILB1	Shrubland of <i>Melaleuca systema</i> , <i>Acacia lasiocarpa</i> , <i>Acacia cochlearis</i> , <i>Pimelea ferruginea</i> and <i>Phyllanthus calycinus</i> .	B1
	WILB2	No data sheet	
?837	WILB3	Shrubland of <i>Melaleuca systema</i> , <i>Acacia cyclops</i> , <i>Acacia lasiocarpa</i> , <i>Cryptandra mutila</i> , <i>Leucopogon parviflorus</i> , <i>Leucopogon racemosus</i> and <i>Lomandra maritima</i> .	B1
?838	WILB4	Shrubland of <i>Dryandra sessilis</i> , <i>Allocasuarina humilis</i> , <i>Calothamnus sanguineus</i> , <i>Melaleuca systema</i> and <i>Jacksonia fasciculata</i> .	B1
847	WILB5	Shrubland of <i>Melaleuca huegelii</i> , <i>Melaleuca systema</i> , <i>Xanthorrhoea preissii</i> , <i>Phyllanthus calycinus</i> , <i>Patersonia occidentalis</i> and <i>Dryandra nivea</i> .	B1
848	WILB6	Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Calothamnus quadrifidus</i> , <i>Hakea trifurcata</i> , <i>Dryandra sessilis</i> , <i>Melaleuca systema</i> and <i>Xanthorrhoea preissii</i> .	F1
849	WILB7	Shrubland of <i>Calothamnus quadrifidus</i> , <i>Dryandra sessilis</i> , <i>Dryandra nivea</i> , <i>Petrophile macrostachya</i> , <i>Xanthorrhoea preissii</i> and <i>Hakea costata</i> .	B1
850	WILB8	Shrubland of <i>Acacia lasiocarpa</i> , <i>Melaleuca systema</i> , <i>Calothamnus quadrifidus</i> , <i>Phyllanthus calycinus</i> , <i>Lepidosperma squamatum</i> and <i>Hibbertia racemosa</i> .	B1

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION CODES FOR SITES IN STAGE 1

* Denotes introduced species

Map No.	Site Name	Gibson Community Description	Vegetation Codes
851	WILB9	Shrubland of <i>Melaleuca huegelii</i> , <i>Melaleuca systena</i> , <i>Acacia alata</i> var. <i>tetrantha</i> , <i>Calothamnus quadrifidus</i> and <i>Lepidosperma squamatum</i> .	B1
852	WILB10	Shrubland of <i>Acacia rostellifera</i> , <i>Acacia lasiocarpa</i> , <i>Calothamnus quadrifidus</i> , <i>Melaleuca systena</i> , <i>Phyllanthus calycinus</i> and <i>Leucopogon parviflorus</i> .	Q1
853	WILB11	Low Open Shrubland of <i>Acacia rostellifera</i> , <i>Hemiantra pungens</i> , <i>Nemcia capitata</i> , <i>Pimelea rosea</i> and <i>Scaevola crassifolia</i> .	Q1
854	WILB12	Open Shrubland of <i>Melaleuca cardiophylla</i> , <i>Santalum acuminatum</i> , <i>Westringia dampieri</i> , <i>Acacia alata</i> var. <i>tetrantha</i> , <i>Melaleuca huegelii</i> , <i>Pimelea ferruginea</i> , <i>Melaleuca systena</i> with an abundance of introduced species.	A3
855	WILB13	Woodland of <i>Eucalyptus gomphocephala</i> - <i>Banksia attenuata</i> over <i>Acacia cyclops</i> , <i>Hakea prostrata</i> , <i>Dryandra sessilis</i> , <i>Xanthorrhoea preissii</i> , <i>Dryandra nivea</i> , <i>Austrostipa flavescens</i> , <i>Macrozamia riedlei</i> and <i>Lagenophora huegelii</i> .	B2
797	YAN1	Woodland of <i>Eucalyptus foecunda</i> over <i>Hakea prostrata</i> , <i>Grevillea vestita</i> , <i>Hakea lissocarpa</i> <i>Dryandra sessilis</i> and <i>Xanthorrhoea preissii</i> .	B3
798	YAN2	Gently Sloping Open Scrub of <i>Melaleuca systena</i> , <i>Dryandra sessilis</i> , <i>Hibbertia racemosa</i> , <i>Brachyscome iberidifolia</i> , <i>Caladenia</i> sp. and <i>Sylidium</i> sp.	A1
799	YAN3	Woodland of <i>Eucalyptus marginata</i> , <i>Banksia menziesii</i> and <i>Banksia attenuata</i> over <i>Hakea trifurcata</i> , <i>Xanthorrhoea preissii</i> , <i>Hibbertia hypericoides</i> .	B3
800	YAN4	Woodland of <i>Banksia attenuata</i> - <i>Banksia grandis</i> - <i>Banksia menziesii</i> - <i>Nuytsia floribunda</i> over <i>Allocasuarina humilis</i> , <i>Calothamnus quadrifidus</i> , <i>Calothamnus sanguineus</i> , <i>Hakea lissocarpa</i> , <i>Petrophile macrostachya</i> and <i>Xanthorrhoea preissii</i> .	F1
801	YAN5	Woodland of <i>Eucalyptus gomphocephala</i> - <i>Banksia attenuata</i> over <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> , <i>Dryandra nivea</i> , <i>Xanthorrhoea preissii</i> , <i>Macrozamia riedlei</i> and <i>Jacksonia fasciculata</i> .	B2
802	YAN6	Woodland of <i>Allocasuarina fraseriana</i> - <i>Banksia attenuata</i> - <i>Banksia grandis</i> - <i>Banksia menziesii</i> over <i>Leucopogon propinquus</i> , <i>Macrozamia riedlei</i> , <i>Xanthorrhoea preissii</i> , <i>Jacksonia sternbergiana</i> and <i>Petrophile macrostachya</i> .	G2
	YAN7	No data sheet	
803	YAN8	Woodland of <i>Banksia attenuata</i> - <i>Nuytsia floribunda</i> over <i>Xanthorrhoea preissii</i> , <i>Dryandra sessilis</i> , <i>Acacia pulchella</i> , <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> , <i>Calothamnus quadrifidus</i> and <i>Mesomelaena pseudostygia</i> .	F1
804	YAN9	Woodland of <i>Eucalyptus decipiens</i> subsp. <i>decipiens</i> - <i>Banksia attenuata</i> over <i>Jacksonia furcellata</i> , <i>Hakea prostrata</i> , <i>Macrozamia riedlei</i> , <i>Xanthorrhoea preissii</i> and <i>Kennedia prostrata</i> .	B3
805	YAN10	Woodland of <i>Eucalyptus gomphocephala</i> - <i>Nuytsia floribunda</i> - <i>Banksia grandis</i> over <i>Xanthorrhoea preissii</i> , <i>Hakea costata</i> , <i>Persoonia comata</i> , <i>Macrozamia riedlei</i> , <i>Acacia pulchella</i> subsp. <i>glaberrima</i> and <i>Conostylis candidans</i> subsp. <i>candidans</i> .	B2
806	YAN11	Woodland of <i>Banksia grandis</i> - <i>Nuytsia floribunda</i> - <i>Eucalyptus decipiens</i> subsp. <i>decipiens</i> over <i>Xanthorrhoea preissii</i> , <i>Hardenbergia comptoniana</i> , <i>Melaleuca systena</i> , <i>Conostephium pendulum</i> and <i>Daucus glochidiatum</i> .	B3

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION CODES FOR SITES IN STAGE 1

* Denotes introduced species

Map No.	Site Name	Gibson Community Description	Vegetation Codes
807	YAN12	Shrubland of <i>Melaleuca huegelii</i> , <i>Melaleuca systena</i> , <i>Acacia lasiocarpa</i> , <i>Dryandra nivea</i> , <i>Conostylis pauciflora</i> subsp. <i>euryrhypis</i> (P3) and <i>Hydrocotyle hispidula</i> .	A1
808	YAN13	Shrubland of <i>Melaleuca systena</i> , <i>Melaleuca huegelii</i> , <i>Dryandra sessilis</i> , <i>Dryandra nivea</i> , <i>Grevillea preissii</i> , <i>Leucopogon parviflorus</i> and <i>Acacia lasiocarpa</i> .	A1
809	YAN14	Woodland of <i>Eucalyptus petrensis</i> over <i>Dryandra sessilis</i> , <i>Melaleuca systena</i> , <i>Baeckea robusta</i> , <i>Acacia lasiocarpa</i> , <i>Melaleuca huegelii</i> and <i>Calorhammus quadrifidus</i> .	B3
810	YAN15	Low Open Shrubland of <i>Melaleuca systena</i> , <i>Melaleuca huegelii</i> , <i>Acacia lasiocarpa</i> , <i>Dryandra nivea</i> , <i>Wurmbea monantha</i> and <i>Drosera macrantha</i> subsp. <i>macrantha</i> .	A1
811	YAN16	Woodland of <i>Eucalyptus decipiens</i> subsp. <i>decipiens</i> - <i>Nuytsia floribunda</i> over <i>Dryandra sessilis</i> , <i>Hakea lissocarpa</i> , <i>Leucopogon parviflorus</i> , <i>Hibbertia hypericoides</i> , <i>Acacia pulchella</i> , <i>Eremaea pauciflora</i> and <i>Kennedia prostrata</i> .	B3
812	YAN17	Woodland of <i>Banksia ilicifolia</i> - <i>Banksia attenuata</i> - <i>Banksia grandis</i> - <i>Nuytsia floribunda</i> over <i>Adenanthos cygnorum</i> , <i>Verticordia nitens</i> , <i>Acacia stenoptera</i> , <i>Stirlingia latifolia</i> , <i>Petrophile linearis</i> and <i>Phlebocarya ciliata</i> .	E1
813	YAN18	Low Lyng Woodland of <i>Melaleuca preissiana</i> over <i>Kunzea ericifolia</i> , <i>Pericalymma ellipticum</i> , <i>Adenanthos cygnorum</i> , <i>Petrophile linearis</i> , <i>Jacksonia furcellata</i> , <i>Conostephium pendulum</i> , <i>Patersonia occidentalis</i> and <i>Pyrorchis nigricans</i> .	K1
814	YAN19	Low Open Woodland of <i>Nuytsia floribunda</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> over <i>Adenanthos cygnorum</i> , <i>Stirlingia latifolia</i> , <i>Xanthorrhoea preissii</i> , <i>Daviesia divaricata</i> subsp. <i>divaricata</i> (ms), <i>Synaphea spinulosa</i> and <i>Patersonia occidentalis</i> .	E1
815	YAN20	Woodland of <i>Banksia menziesii</i> - <i>Banksia attenuata</i> over <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Xanthorrhoea preissii</i> , <i>Melaleuca trichophylla</i> , <i>Conostephium pendulum</i> , <i>Calytrix flavescens</i> , <i>Hypolaena exsulca</i> and <i>Patersonia occidentalis</i> .	F1
816	YAN21	Deeper Wetland of <i>Eucalyptus rudis</i> - <i>Melaleuca preissiana</i> over <i>Acacia saligna</i> , <i>Jacksonia furcellata</i> , <i>Kunzea ericifolia</i> , <i>Petrophile serruriae</i> , <i>Kennedia prostrata</i> and <i>Dianella revoluta</i> .	K1
817	YAN22	Woodland of <i>Banksia ilicifolia</i> - <i>Banksia menziesii</i> - <i>Banksia attenuata</i> over <i>Pericalymma ellipticum</i> , <i>Adenanthos cygnorum</i> , <i>Stirlingia latifolia</i> , <i>Petrophile linearis</i> , <i>Verticordia nitens</i> and <i>Phlebocarya ciliata</i> .	E1
818	YAN23	Woodland of <i>Eucalyptus foecunda</i> over <i>Dryandra sessilis</i> , <i>Hakea lissocarpa</i> , <i>Hakea prostrata</i> , <i>Melaleuca systena</i> , <i>Acacia pulchella</i> , <i>Bossiaea eriocarpa</i> , <i>Leucopogon parviflorus</i> and <i>Trachymene pilosa</i> .	B3
819	YAN24	Shrubland of <i>Dryandra sessilis</i> , <i>Hakea trifurcata</i> , <i>Astroloma microcalyx</i> , <i>Hibbertia racemosa</i> , <i>Grevillea preissii</i> , <i>Melaleuca huegelii</i> , <i>Melaleuca systena</i> , <i>Hakea lissocarpa</i> and <i>Leucopogon parviflorus</i> .	A1
820	YAN25	Woodland of <i>Eucalyptus marginata</i> - <i>Banksia attenuata</i> - * <i>Pinus radiata</i> over <i>Hakea lissocarpa</i> , <i>Acacia pulchella</i> , <i>Petrophile linearis</i> , <i>Philotheca spicata</i> , <i>Leucopogon polymorphus</i> , <i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i> and <i>Dryandra nivea</i> .	I1

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION TYPES FOR SITES IN STAGE 1

* Denotes introduced species

No.	Grid. Refs.	MCPL Site Descriptions	Vegetation Code
M001	E 375647 N 6524644	Sparse Low Shrubland of <i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i> and <i>Xanthorrhoea preissii</i> with <i>Melaleuca systena</i> , <i>Hakea prostrata</i> , <i>Hibbertia hypericoides</i> and <i>Mesomelaena pseudostygia</i> on limestone outcropping.	B4
M002	E 275699 N 6526225	Low Woodland of <i>Banksia prionotes</i> over <i>Adenanthos cygnorum</i> , <i>Calytrix angulata</i> , <i>Verticordia densifolia</i> var. <i>densifolia</i> and <i>Regelia ciliata</i> .	H4
M003	E 375533 N 6527262	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Eucalyptus todtiana</i> over <i>Hibbertia hypericoides</i> , <i>Stirlingia latifolia</i> and <i>Patersonia occidentalis</i> .	G1
M004	E 375736 N 6528336	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Allocasuarina fraseriana</i> over <i>Xanthorrhoea preissii</i> , <i>Lysinema ciliatum</i> , <i>Daviesia nudiflora</i> , <i>Mesomelaena pseudostygia</i> and <i>Stirlingia latifolia</i> .	G2
M005	E 375180 N 6516761	Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Nuytsia floribunda</i> over <i>Stirlingia latifolia</i> , <i>Xanthorrhoea preissii</i> , <i>Synaphea spinulosa</i> subsp. <i>spinulosa</i> , <i>Calothamnus sanguineus</i> and <i>Hakea ruscifolia</i> .	H1
M006	E 374837 N 6518559	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Macrozamia riedlei</i> , <i>Xanthorrhoea preissii</i> , <i>Allocasuarina humilis</i> , <i>Hibbertia hypericoides</i> and <i>Mesomelaena pseudostygia</i> .	F1
M007	E 375284 N 6521647	Low Shrubland of <i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i> , <i>Hibbertia hypericoides</i> , <i>Jacksonia sericea</i> (P3), <i>Grevillea preissii</i> subsp. <i>preissii</i> , <i>Melaleuca systena</i> and <i>Xanthorrhoea preissii</i> on a limestone ridge with numerous outcropping.	B4
M008	E 375458 N 6521874	Occasional emergents of <i>Nuytsia floribunda</i> , <i>Banksia attenuata</i> and <i>Allocasuarina fraseriana</i> . Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Allocasuarina fraseriana</i> over <i>Xanthorrhoea preissii</i> , <i>Macrozamia riedlei</i> , <i>Hibbertia hypericoides</i> and <i>Stirlingia latifolia</i> .	G2
M009	E 375909 N 6529410	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Eucalyptus todtiana</i> over <i>Xanthorrhoea preissii</i> , <i>Hibbertia hypericoides</i> , <i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i> and <i>Calothamnus sanguineus</i> .	D1
M010	E 375777 N 6531090	Low Woodland of <i>Melaleuca preissiana</i> - <i>Nuytsia floribunda</i> over <i>Adenanthos cygnorum</i> , <i>Xanthorrhoea preissii</i> , <i>Verticordia nitens</i> and <i>Dasyopogon bromeliifolius</i> .	J1
M011	E 367108 N 6535209	Low Woodland of <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> - <i>Eucalyptus todtiana</i> - <i>Allocasuarina fraseriana</i> over <i>Allocasuarina humilis</i> <i>Adenanthos cygnorum</i> , <i>Leucopogon conostephioides</i> , <i>Stirlingia latifolia</i> and <i>Eremaea pauciflora</i> var. <i>pauciflora</i> .	G1
M012	E 364716 N 6534800	Low Woodland of <i>Eucalyptus todtiana</i> - <i>Banksia menziesii</i> over <i>Jacksonia sternbergiana</i> , <i>Macrozamia riedlei</i> and <i>Conostylis candicans</i> subsp. <i>candicans</i> .	D1

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION TYPES FOR SITES IN STAGE 1

* Denotes introduced species

No.	Grid. Refs.	MCPL Site Descriptions	Vegetation Code
M013	E 368041 N 6534650	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Jacksonia sternbergiana</i> , <i>Xanthorrhoea preissii</i> and <i>Leucopogon constephioides</i> .	G1
M014	E 367769 N 6530809	Low Woodland of <i>Eucalyptus todtiana</i> - <i>Banksia menziesii</i> - <i>Banksia attenuata</i> over <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> <i>Calytrix flavescens</i> , <i>Mesomeleana pseudostygia</i> , <i>Xanthorrhoea preissii</i> and <i>Hibbertia hypericoides</i> .	C1
M015	E 367323 N 6530117	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Calytrix angulata</i> and <i>Hibbertia hypericoides</i> .	C1
M016	E 366357 N 6529788	Low Woodland of <i>Banksia attenuata</i> - <i>Eucalyptus todtiana</i> over <i>Hibbertia hypericoides</i> , <i>Stirlingia latifolia</i> and <i>Mesomeleana pseudostygia</i> .	C1
M017	E 369527 N 6528187	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Conostephium pendulum</i> , <i>Stirlingia latifolia</i> , <i>Mesomeleana pseudostygia</i> and <i>Hibbertia hypericoides</i> .	C1
M018	E 370449 N 6528083	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Allocasuarina fraseriana</i> - <i>Nuytsia floribunda</i> over <i>Xanthorrhoea preissii</i> , <i>Stirlingia latifolia</i> and <i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i> .	C1
M019	E 371578 N 6528253	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Eucalyptus todtiana</i> - <i>Allocasuarina fraseriana</i> over <i>Xanthorrhoea preissii</i> , <i>Stirlingia latifolia</i> and <i>Calytrix flavescens</i> .	C1
M020	E 372374 N 6528152	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> - <i>Allocasuarina fraseriana</i> over <i>Daviesia nudiflora</i> , <i>Stirlingia latifolia</i> , <i>Hibbertia hypericoides</i> , <i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i> and <i>Xanthorrhoea preissii</i> .	C1
M021	E 368229 N 6527984	Low Woodland of <i>Eucalyptus decipiens</i> subsp. <i>decipiens</i> - <i>Banksia attenuata</i> - <i>Allocasuarina fraseriana</i> over <i>Hakea prostrata</i> , <i>Hakea ruscifolia</i> , <i>Xanthorrhoea preissii</i> and <i>Daviesia divaricata</i> subsp. <i>divaricata</i> .	B3
M022	E 367257 N 6527351	Woodland of <i>Eucalyptus gomphocephala</i> over <i>Xanthorrhoea preissii</i> , <i>Macrozamia riedlei</i> , <i>Dryandra lindleyana</i> , <i>Hibbertia hypericoides</i> and <i>Hakea lissocarpa</i> .	B2
M023	E 370726 N 6525223	Low Open Forest of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Nuytsia floribunda</i> over <i>Xanthorrhoea preissii</i> , <i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i> and <i>Mesomeleana pseudostygia</i> .	C1
M024	E 370034 N 6525144	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia grandis</i> - <i>Eucalyptus todtiana</i> - <i>Allocasuarina fraseriana</i> over <i>Hibbertia hypericoides</i> , <i>Xanthorrhoea preissii</i> , <i>Mesomeleana pseudostygia</i> and <i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i> .	C1
M025	E 370200 N 6525362	Low Woodland of <i>Eucalyptus gomphocephala</i> - <i>Banksia attenuata</i> - <i>Allocasuarina fraseriana</i> over <i>Hibbertia hypericoides</i> , <i>Hakea trifurcata</i> , <i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i> and <i>Macrozamia riedlei</i> .	B2

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION TYPES FOR SITES IN STAGE 1

* Denotes introduced species

No.	Grid. Refs.	MCPL Site Descriptions	Vegetation Code
M026	E 369573 N 6525347	Low Open Woodland of <i>Banksia ilicifolia</i> over <i>Melaleuca systema</i> , <i>Melaleuca trichophylla</i> , <i>Xanthorrhoea preissii</i> , <i>Scholtzia involucreta</i> and <i>Calytrix flavescens</i> .	H3
M027	E 368765 N 6525236	Low Shrubland with <i>Jacksonia sericea</i> (P3), <i>Melaleuca systema</i> , <i>Xanthorrhoea preissii</i> , <i>Hibbertia hypericoides</i> , <i>Mesomeleana psuedostygia</i> , <i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i> , <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> and <i>Macrozamia riedlei</i> on limestone outcropping.	B1
M028	E 368759 N 6525272	Low Woodland of <i>Banksia attenuata</i> over <i>Dryandra sessilis</i> , <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> , <i>Hibbertia hypericoides</i> and <i>Jacksonia sericea</i> (P3) on limestone outcropping.	C1
M029	E 367554 N 6525370	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Eucalyptus tottiana</i> over <i>Hibbertia hypericoides</i> , <i>Dryandra sessilis</i> , <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> and <i>Melaleuca systema</i> .	C1
M030	E 367576 N 6526130	Woodland of <i>Eucalyptus decipiens</i> subsp. <i>decipiens</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Calytrix fraseri</i> <i>Xanthorrhoea preissii</i> , <i>Mesomelaena psuedostygia</i> and <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> .	B3
M031	E 367448 N 6526854	Low Open Woodland of <i>Banksia ilicifolia</i> over <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Scholtzia involucreta</i> , <i>Hakea prostrata</i> and <i>Xanthorrhoea preissii</i> .	H3
M032	E 367422 N 6524795	Woodland of <i>Eucalyptus gomphocephala</i> - <i>Banksia attenuata</i> over <i>Xanthorrhoea preissii</i> , <i>Hakea prostrata</i> , <i>Acacia pulchella</i> var. <i>glaberrima</i> and <i>Melaleuca systema</i> .	B2
M033	E 367602 N 6524285	Low Open Woodland of <i>Banksia ilicifolia</i> over <i>Dryandra lindleyana</i> var. <i>lindleyana</i> , <i>Jacksonia sericea</i> (P3), <i>Hakea prostrata</i> , <i>Petrophile brevifolia</i> and <i>Xanthorrhoea preissii</i> .	H3
M034	E 368265 N 6523466	Low Woodland of <i>Eucalyptus tottiana</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Hibbertia hypericoides</i> , <i>Stirlingia latifolia</i> and <i>Hakea ruscifolia</i> .	G3
M035	E 368883 N 6523079	Low Woodland of <i>Banksia attenuata</i> - <i>Nuytsia floribunda</i> over <i>Dryandra sessilis</i> , <i>Melaleuca ? systema</i> , <i>Xanthorrhoea preissii</i> <i>Acacia pulchella</i> var. <i>glaberrima</i> , <i>Hibbertia hypericoides</i> and <i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i> .	C1
M036	E 369324 N 6522247	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Nuytsia floribunda</i> over <i>Melaleuca systema</i> , <i>Hibbertia hypericoides</i> , <i>Stirlingia latifolia</i> and <i>Xanthorrhoea preissii</i> .	C1
M037	E 368984 N 6520989	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Eucalyptus tottiana</i> over <i>Dryandra sessilis</i> , <i>Macrozamia riedlei</i> , <i>Xanthorrhoea preissii</i> , <i>Hibbertia hypericoides</i> and <i>Allocasuarina humilis</i> .	C1
M038	E 370684 N 6520694	Low Woodland of <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Dryandra lindleyana</i> , <i>Melaleuca trichophylla</i> and <i>Constephium pendulum</i> .	G1

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION TYPES FOR SITES IN STAGE 1

* Denotes introduced species

No.	Grid. Refs.	MCPL Site Descriptions	Vegetation Code
M039	E 370812 N 6520280	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> over <i>Calytrix flavescens</i> , <i>Scholtzia involucrata</i> , <i>Hakea prostrata</i> , <i>Melaleuca systena</i> and <i>Xanthorrhoea preissii</i> .	H3
M040	E 371500 N 6519450	Forest of <i>Eucalyptus gomphocephala</i> - <i>Banksia attenuata</i> over <i>Xanthorrhoea preissii</i> , <i>Dryandra lindleyana</i> , <i>Petrophile macrostachya</i> , <i>Hakea prostrata</i> and <i>Leucopogon propinquus</i> .	B2
M041	E 371900 N 6519200	Low Woodland of <i>Eucalyptus decipiens</i> subsp. <i>decipiens</i> over <i>Daviesia divaricata</i> subsp. <i>divaricata</i> (ms), <i>Rhagodia baccata</i> subsp. <i>baccata</i> , <i>Mesomelaena pseudostygia</i> and numerous introduced species.	B3
M042	E 372300 N 6517500	Woodland of <i>Eucalyptus gomphocephala</i> - <i>Banksia prionotes</i> - <i>Banksia attenuata</i> - <i>Allocasuarina fraseriana</i> over <i>Jacksonia furcellata</i> , <i>Grevillea vestita</i> subsp. <i>vestita</i> and numerous introduced species.	B2
M043	E 370300 N 6521200	Open Heath of <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Hakea prostrata</i> and <i>Melaleuca trichophylla</i> over <i>Lyginia barbata</i> <i>Schoenus caespititius</i> , <i>Xanthorrhoea preissii</i> and <i>Mesomelaena pseudostygia</i> .	D1
M044	E 371432 N 6521166	Woodland of <i>Eucalyptus gomphocephala</i> - <i>Banksia attenuata</i> over <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Mesomelaena pseudostygia</i> , <i>Acacia sessilis</i> , <i>Xanthorrhoea preissii</i> , <i>Calytrix flavescens</i> and <i>Conostephium pendulum</i> .	B2
M045	E 372516 N 6521140	Low Woodland of <i>Banksia attenuata</i> - <i>Eucalyptus todiana</i> - <i>Allocasuarina fraseriana</i> over <i>Hibbertia hypericoides</i> , <i>Melaleuca systena</i> <i>Xanthorrhoea preissii</i> and <i>Daviesia divaricata</i> subsp. <i>divaricata</i> .	C1
M046	E 371900 N 6521700	Woodland of <i>Eucalyptus gomphocephala</i> - <i>Banksia grandis</i> over <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> , <i>Jacksonia sericea</i> (P3), <i>Hakea prostrata</i> , <i>Petrophile brevifolia</i> and <i>Bossiaea eriocarpa</i> .	B2
M047	E 371350 N 6522000	Low Forest of <i>Eucalyptus todiana</i> - <i>Banksia attenuata</i> - <i>Nyctisia floribunda</i> over <i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i> , <i>Xanthorrhoea preissii</i> , <i>Hibbertia hypericoides</i> and <i>Jacksonia sericea</i> (P3).	C1
M048	E 370363 N 6522236	Low Woodland of <i>Banksia menziesii</i> - <i>Banksia attenuata</i> over <i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i> , <i>Xanthorrhoea preissii</i> , <i>Hakea ruscifolia</i> and <i>Melaleuca trichophylla</i> .	E1
M049	E 372617 N 6523550	Low Forest of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Calytrix flavescens</i> , <i>Stirlingia latifolia</i> , <i>Hibbertia hypericoides</i> , <i>Jacksonia sternbergiana</i> and <i>Leucopogon racemosus</i> .	E1
M050	E 373674 N 6523736	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Allocasuarina fraseriana</i> over <i>Stirlingia latifolia</i> , <i>Hibbertia hypericoides</i> , <i>Jacksonia sternbergiana</i> , <i>Hakea ruscifolia</i> and <i>Xanthorrhoea preissii</i> .	C1
M051	E 374600 N 6523700	Low Shrubland of <i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i> , <i>Xanthorrhoea preissii</i> and <i>Petrophile macrostachya</i> .	A1

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No.	Grid. Refs.	MCPL Site Descriptions	Vegetation Code
M052	E 375364 N 6524213	Low Open Shrubland of <i>Calothamnus sanguineus</i> , <i>Melaleuca systena</i> , <i>Hibbertia hypericoides</i> , <i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i> and <i>Scholtzia involucrata</i> under scattered <i>Eucalyptus todtiana</i> - <i>Banksia attenuata</i> - <i>Nuytsia floribunda</i> .	D1
M053	E 377500 N 6524250	Open Forest of <i>Eucalyptus rudis</i> - <i>Melaleuca preissiana</i> - <i>Banksia attenuata</i> over <i>Kennedia prostrata</i> , <i>Lyginia barbata</i> , <i>Lepidosperma tenue</i> , <i>Jacksonia furcellata</i> and <i>Bossiaea eriocarpa</i> .	K1
M054	E 378321 N 6523322	Open Forest of <i>Eucalyptus rudis</i> - <i>Melaleuca preissiana</i> over <i>Leucopogon propinquus</i> and <i>Xanthorrhoea preissii</i> .	K1
M055	E 379353 N 6523500	Low Woodland of <i>Banksia menziesii</i> - <i>Banksia attenuata</i> - <i>Banksia ilicifolia</i> over <i>Beaufortia elegans</i> , <i>Leucopogon polymorphus</i> , <i>Melaleuca systena</i> , <i>Calytrix angulata</i> , <i>Calytrix flavescens</i> and <i>Xanthorrhoea preissii</i> .	H1
M056	E 379936 N 6522715	Woodland of <i>Melaleuca preissiana</i> - <i>Nuytsia floribunda</i> over <i>Xanthorrhoea preissii</i> , <i>Verticordia nitens</i> , <i>Leucopogon oxycedrus</i> , <i>Leucopogon squarrosus</i> and <i>Boronia purdieana</i> subsp. <i>purdieana</i> .	K1
M057	E 380401 N 6521769	Low Forest of <i>Eucalyptus todtiana</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Hibbertia subvaginata</i> , <i>Calytrix flavescens</i> , <i>Melaleuca systena</i> and <i>Calytrix angulata</i> .	G1
M058	E 381111 N 6521160	Open Forest of <i>Eucalyptus rudis</i> - <i>Melaleuca preissiana</i> - <i>Nuytsia floribunda</i> - <i>Banksia ilicifolia</i> - <i>Banksia menziesii</i> over <i>Gompholobium scabrum</i> .	K1
M059	E 382000 N 6520600	Low Forest of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Calytrix flavescens</i> , <i>Calytrix angulata</i> , <i>Acacia pulchella</i> , <i>Melaleuca systena</i> and <i>Stirlingia latifolia</i> .	H1
M060	E 382037 N 6520086	Woodland of <i>Corymbia calophylla</i> over <i>Xanthorrhoea preissii</i> , <i>Hibbertia subvaginata</i> and <i>Gompholobium scabrum</i> .	J2
M061	E 376323 N 6531358	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Eremaea</i> sp., <i>Hibbertia hypericoides</i> , <i>Stirlingia latifolia</i> with occasional <i>Xanthorrhoea preissii</i> .	E1
M062	E 377234 N 6531536	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Adenanthos cygnorum</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Scholtzia involucrata</i> and <i>Melaleuca scabra</i> .	E1
M063	E 377658 N 6530884	Tall Shrubland of <i>Beaufortia elegans</i> , <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> and <i>Hypocalymma angustifolium</i> with scattered <i>Banksia attenuata</i> and <i>Melaleuca preissiana</i> .	K1
M064	E 377873 N 6531103	Low Open Forest of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Dasygogon bromeliifolius</i> , <i>Calytrix fraseri</i> and <i>Adenanthos cygnorum</i> .	H1

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No.	Grid. Refs.	MCPL Site Descriptions	Vegetation Code
M065	E 379525 N 6530377	Low Open Woodland of <i>Banksia menziesii</i> - <i>Banksia attenuata</i> - <i>Eucalyptus todtiana</i> over <i>Verticordia nitens</i> and <i>Beaufortia elegans</i> .	G1
M066	E 380026 N 6531335	Woodland of <i>Eucalyptus rudis</i> - <i>Melaleuca preissiana</i> - <i>Banksia littoralis</i> over <i>Xanthorrhoea preissii</i> and <i>Lepidosperma longitudinale</i> .	K1
M067	E 380548 N 6522247	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Eremaea</i> sp. and <i>Dasyogon bromeliifolius</i> .	H1
M068	E 380971 N 652886	Woodland of <i>Banksia attenuata</i> over <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> , <i>Acacia pulchella</i> and <i>Dasyogon bromeliifolius</i> with scattered <i>Banksia menziesii</i> .	H1
M069	E 381760 N 6531020	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Adenanthos cygnorum</i> , <i>Hibbertia hypericoides</i> , <i>Eremaea</i> sp., <i>Scholtzia involucreta</i> and <i>Conospermum incurvum</i> .	H1
M070	E 382009 N 6530525	Low Open Woodland of <i>Melaleuca preissiana</i> over <i>Pericalymma ellipticum</i> var. <i>ellipticum</i> , <i>Xanthorrhoea preissii</i> and <i>Hypocalymma angustifolium</i> .	K1
M071	E 385700 N 6529700	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Verticordia nitens</i> , <i>Calytrix flavescens</i> and <i>Eremaea</i> sp.	G1
M072	E 386192 N 6528667	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia iliticifolia</i> - <i>Nuytsia floribunda</i> over <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Xanthorrhoea preissii</i> and <i>Hibbertia subvaginata</i> .	H1
M073	E 387078 N 6527648	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Adenanthos cygnorum</i> and <i>Xanthorrhoea preissii</i> .	H1
M074	E 387509 N 6526572	Low Open Woodland of <i>Banksia menziesii</i> - <i>Banksia attenuata</i> over <i>Adenanthos cygnorum</i> and <i>Beaufortia elegans</i> .	G1
M075	E 388094 N 6525952	Woodland of <i>Banksia attenuata</i> - <i>Nuytsia floribunda</i> - <i>Melaleuca preissiana</i> over <i>Macrozamia riedlei</i> and introduced pasture species.	K4
M076	E 388018 N 6525727	Open Forest of <i>Melaleuca preissiana</i> - <i>Eucalyptus rudis</i> over <i>Baumea juncea</i> and <i>Lepidosperma longitudinale</i> .	K3
M077	E 387414 N 6526504	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Adenanthos cygnorum</i> and <i>Jacksonia floribunda</i> .	G1

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No.	Grid. Refs.	MCPL Site Descriptions	Vegetation Code
M078	E 386250 N 6526500	Low Open Forest of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> over <i>Xanthorrhoea preissii</i> .	H1
M079	E 385807 N 6526427	Open Heath of <i>Myrtaceae</i> - <i>Proteaceae</i> species over <i>Dasyopogon bromeliifolius</i> , <i>Xanthorrhoea preissii</i> and <i>Patersonia occidentalis</i> with occasional emergent <i>Banksia menziesii</i> and <i>Banksia ilicifolia</i> .	H1
M080	E 385600 N 6526600	Low Open Forest of <i>Melaleuca preissiana</i> over <i>Hypocalymma angustifolium</i> , <i>Pericalymma ellipticum</i> var. <i>ellipticum</i> and <i>Baeckea</i> sp.	K1
M081	E 385440 N 6529674	Closed Heath of <i>Astartea fascicularis</i> - <i>Kunzea recurva</i> - <i>Hypocalymma angustifolium</i> over <i>Drosera</i> sp., <i>Centrolepis aristata</i> and <i>Siloxerus humifusus</i> .	K5
M082	E 383971 N 6529411	Closed Heath of <i>Regelia ciliata</i> - <i>Adenanthos cygnorum</i> over <i>Hypolaena exsulca</i> and <i>Hypocalymma angustifolium</i> .	K5
M083	E 383500 N 6530000	Open Heath of <i>Beaufortia elegans</i> - <i>Jacksonia floribunda</i> with scattered emergent <i>Banksia attenuata</i> and <i>Nuytsia floribunda</i> .	G1
M084	E 379274 N 6530548	Low Woodland of <i>Eucalyptus todtiana</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Melaleuca scabra</i> , <i>Dasyopogon bromeliifolius</i> and <i>Calytrix flavescens</i> .	G1
M085	E 378611 N 6530475	Low Woodland of <i>Eucalyptus todtiana</i> - <i>Nuytsia floribunda</i> - <i>Banksia menziesii</i> over <i>Hibbertia hypericoides</i> and <i>Jacksonia sternbergiana</i> .	G1
M086	E 377877 N 6531063	Low Woodland of <i>Melaleuca preissiana</i> - <i>Nuytsia floribunda</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> and <i>Dasyopogon bromeliifolius</i> .	K4
M087	E 376161 N 6524476	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Calothamnus sanguineus</i> , <i>Xanthorrhoea preissii</i> , <i>Melaleuca scabra</i> , <i>Stirlingia latifolia</i> and <i>Conostephium pendulum</i> .	G1
M088	E 376418 N 6524457	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia grandis</i> over <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> , <i>Xanthorrhoea preissii</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> and <i>Jacksonia calcicola</i> (ms).	F1
M089	E 377639 N 6524811	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> over <i>Scholtzia involucrata</i> .	H1
M090	E 378240 N 6524792	Low Woodland of <i>Melaleuca preissiana</i> - <i>Eucalyptus todtiana</i> over <i>Xanthorrhoea preissii</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> and <i>Leucopogon conostephioides</i> .	K4

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION TYPES FOR SITES IN STAGE 1

* Denotes introduced species

No.	Grid. Refs.	MCPL Site Descriptions	Vegetation Code
M091	E 378962 N 6525067	Woodland of <i>Eucalyptus marginata</i> - <i>Eucalyptus todiana</i> over <i>Xanthorrhoea preissii</i> , <i>Hibbertia hypericoides</i> and <i>Phlebocarya ciliata</i> .	G3
M092	E 379831 N 6525129	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> over <i>Adenanthos cygnorum</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> and <i>Leucopogon conostephioides</i> .	H1
M093	E 380821 N 6525423	Low Woodland of <i>Eucalyptus todiana</i> - <i>Banksia attenuata</i> over <i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i> , <i>Eremaea</i> sp., <i>Scholtzia involucreata</i> and <i>Xanthorrhoea preissii</i> .	G1
M094	E 382469 N 6525630	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> over <i>Xanthorrhoea preissii</i> and <i>Lyginia barbata</i> .	H1
M095	E 383250 N 6526000	Open Woodland of <i>Melaleuca priessiana</i> over <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> , <i>Regelia ciliata</i> and <i>Astartea fascicularis</i> .	K1
M096	E 379735 N 6527661	Woodland of <i>Allocasuarina fraseriana</i> - <i>Banksia menziesii</i> over <i>Melaleuca scabra</i> and <i>Calytrix fraseri</i> .	G1
M097	E 379513 N 6528273	Low Woodland of <i>Banksia attenuata</i> - <i>Melaleuca preissiana</i> - <i>Nuytsia floribunda</i> - <i>Banksia littoralis</i> over <i>Dasyopogon bromeliifolius</i> .	K1
M098	E 379783 N 6529926	Woodland of <i>Melaleuca raphiophylla</i> - <i>Nuytsia floribunda</i> over <i>Dasyopogon bromeliifolius</i> , <i>Xanthorrhoea preissii</i> , <i>Adenanthos cygnorum</i> and <i>Regelia ciliata</i> .	K2
M099	E 380250 N 6526500	Low Woodland of <i>Melaleuca raphiophylla</i> over <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> , <i>Regelia ciliata</i> and <i>Hypolaena exsulca</i> .	K2
M100	E 384144 N 6525533	Open Forest of <i>Melaleuca raphiophylla</i> - <i>Banksia ilicifolia</i> over <i>Adenanthos cygnorum</i> , <i>Dasyopogon bromeliifolius</i> and <i>Regelia ciliata</i> .	K2
M101	E 384850 N 6525243	Low Open Woodland of <i>Banksia attenuata</i> over a low understorey of <i>Scholtzia involucreata</i> and <i>Leucopogon conostephioides</i> .	G1
M102	E 392627 N 6520054	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> over <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Conostephium minus</i> (P4), <i>Xanthorrhoea preissii</i> and <i>Patersonia occidentalis</i> .	H1
M103	E 393175 N 6520903	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> over <i>Dasyopogon bromeliifolius</i> , <i>Xanthorrhoea preissii</i> and <i>Patersonia occidentalis</i> .	H1

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION TYPES FOR SITES IN STAGE 1

* Denotes introduced species

No.	Grid. Refs.	MCPL Site Descriptions	Vegetation Code
M104	E 393150 N 6521300	Very disturbed seasonal lake with Low Shrubland of <i>Melaleuca viminea</i> and an abundance of introduced species.	K5
M105	E 392350 N 6521600	Low Forest of mixed <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Nuytsia floribunda</i> over <i>Xanthorrhoea preissii</i> and <i>Macrozamia riedlei</i> .	H1
M106	E 391300 N 6522150	Low Open Woodland of <i>Banksia menziesii</i> over <i>Jacksonia floribunda</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> and <i>Conostephium incurvum</i> .	G1
M107	E 393010 N 6517574	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> with <i>Verticordia nitens</i> , <i>Jacksonia floribunda</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> and <i>Beaufortia elegans</i> .	G1
M108	E 383631 N 6516750	Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Nuytsia floribunda</i> over <i>Melaleuca systena</i> , <i>Allocasuarina humilis</i> and <i>Xanthorrhoea preissii</i> .	F1
M109	E 384027 N 6516581	Low Open Woodland of <i>Eucalyptus rudis</i> - <i>Melaleuca preissiana</i> over <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> and <i>Siloxerus humifusus</i> with occasional emergent <i>Banksia menziesii</i> .	K1
M110		No Site established with this number	
M111	E 386010 N 6516876	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Hibbertia hypericoides</i> , <i>Stirlingia latifolia</i> , <i>Calothamnus sanguineus</i> , <i>Beaufortia elegans</i> and <i>Phlebocarya ciliata</i> .	G1
M112	E 386976 N 6517000	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Melaleuca scabra</i> , <i>Phlebocarya ciliata</i> , <i>Hibbertia pachyrrhiza</i> and <i>Xanthorrhoea preissii</i> .	G1
M113	E 390626 N 6522031	Woodland of <i>Melaleuca preissiana</i> - <i>Banksia ilicifolia</i> - <i>Banksia prionotes</i> - <i>Nuytsia floribunda</i> over <i>Regelia ciliata</i> , <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> and <i>Pultenaea reticulata</i> .	K1
M114	E 390550 N 6522250	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Verticordia nitens</i> , <i>Dasyopogon bromeliifolius</i> , <i>Melaleuca seritata</i> and <i>Paterosonia occidentalis</i> .	I1
M115	E 389850 N 6523000	Woodland of <i>Corymbia calophylla</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Melaleuca preissiana</i> over <i>Xanthorrhoea preissii</i> , <i>Regelia ciliata</i> and <i>Jacksonia furcellata</i> .	J1
M116	E 389550 N 6524151	Tall Shrubland of <i>Regelia ciliata</i> , <i>Adenanthos cygnorum</i> and <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> .	K5

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION TYPES FOR SITES IN STAGE 1

* Denotes introduced species

No.	Grid. Refs.	MCPL Site Descriptions	Vegetation Code
M117	E 392250 N 6519500	Low Open Woodland of <i>Eucalyptus toditiana</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Nuytsia floribunda</i> over <i>Beaufortia elegans</i> , <i>Melaleuca systena</i> , <i>Patersonia occidentalis</i> and <i>Hibbertia subvaginata</i> .	G1
M118	E 390375 N 6519375	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over low sparse understorey.	G1
M119	E 388250 N 6517373	Low Open Woodland of <i>Banksia attenuata</i> over <i>Allocasuarina humilis</i> , <i>Jacksonia floribunda</i> and <i>Persoonia comata</i> .	G1
M120	E 386200 N 6517855	Low Open Woodland of <i>Eucalyptus toditiana</i> - <i>Banksia menziesii</i> - <i>Banksia attenuata</i> over <i>Calytrix flavescens</i> and <i>Eremaea pauciflora</i> var. <i>pauciflora</i> .	G1
M121	E 386044 N 6519659	Low Woodland of <i>Melaleuca preissiana</i> - <i>Banksia menziesii</i> - <i>Banksia attenuata</i> - <i>Eucalyptus toditiana</i> over <i>Dasyopogon bromeliifolius</i> <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> , <i>Xanthorrhoea preissii</i> and <i>Leucopogon conostephioides</i> .	K1
M122	E 386260 N 6521590	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Verticordia nitens</i> and <i>Astroloma xerophyllum</i> .	G1
M123	E 386058 N 6523269	Low Open Woodland of <i>Banksia menziesii</i> over <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Beaufortia elegans</i> , <i>Scholtzia involucrata</i> and <i>Jacksonia floribunda</i> .	G1
M124	E 385442 N 6523195	Open Woodland of <i>Eucalyptus rudis</i> over <i>Melaleuca viminea</i> , <i>Astartea fascicularis</i> and <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> in a wetland depression.	K2
M125	E 384949 N 6523791	Low Woodland of <i>Melaleuca preissiana</i> - <i>Banksia attenuata</i> - <i>Banksia iicifolia</i> over <i>Dasyopogon bromeliifolius</i> <i>Xanthorrhoea preissii</i> , <i>Adenanthos cygnorum</i> and <i>Pericalymma ellipticum</i> var. <i>ellipticum</i> .	K1
M126	E 384601 N 6524630	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Melaleuca viminea</i> , <i>Dasyopogon bromeliifolius</i> , <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> , <i>Xanthorrhoea preissii</i> , <i>Phlebocarya ciliata</i> and <i>Hibbertia subvaginata</i> .	H2
M127	E 385846 N 6524200	Low Woodland of <i>Melaleuca preissiana</i> over <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> , <i>Xanthorrhoea preissii</i> , <i>Gahnia</i> sp., <i>Pericalymma ellipticum</i> var. <i>ellipticum</i> and <i>Hypocalymma angustifolium</i> .	K1
M128	E 387375 N 6523900	Low Open Woodland of <i>Eucalyptus rudis</i> - <i>Melaleuca preissiana</i> over <i>Pultenaea reticulata</i> , <i>Hypocalymma angustifolium</i> and <i>Regelia ciliata</i> .	J1/K1
M129	E 388033 N 6524027	Low Open Woodland of <i>Banksia menziesii</i> over <i>Jacksonia floribunda</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Beaufortia elegans</i> and <i>Scholtzia involucrata</i> .	G1

APPENDIX B: SUMMARY OF SITE DESCRIPTIONS, LOCATIONS AND SITE VEGETATION TYPES FOR SITES IN STAGE 1

* Denotes introduced species

No.	Grid. Refs.	MCPL Site Descriptions	Vegetation Code
M130	E 376375 N 6527850	Low Open Woodland of <i>Eucalyptus totitiana</i> - <i>Allocasuarina fraseriana</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Verticordia nitens</i> , <i>Hibbertia hypericoides</i> , <i>Philothea spicata</i> , <i>Bossiaea eriocarpa</i> and <i>Eremaea pauciflora</i> var. <i>pauciflora</i> .	G2
M131	E 376700 N 6527450	Low Woodland of <i>Melaleuca preissiana</i> - <i>Nuytsia floribunda</i> - <i>Banksia menziesii</i> - <i>Allocasuarina fraseriana</i> over <i>Xanthorrhoea preissii</i> , <i>Dasyopogon bromeliifolius</i> and <i>Jacksonia furcellata</i> .	K4
M132	E 376827 N 6528000	Woodland of <i>Eucalyptus totitiana</i> - <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Bossiaea eriocarpa</i> , <i>Tetraria capillaris</i> , <i>Conostephium pendulum</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> and <i>Hibbertia subvaginata</i> .	G1
M133	E 377626 N 6527805	Woodland of <i>Eucalyptus totitiana</i> , <i>Allocasuarina fraseriana</i> and <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Dasyopogon bromeliifolius</i> and <i>Melaleuca scabra</i> .	G1
M134	E 378283 N 6527803	Woodland of <i>Melaleuca preissiana</i> - <i>Banksia menziesii</i> - <i>Allocasuarina fraseriana</i> over <i>Xanthorrhoea preissii</i> , <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> , <i>Lagenophora huegeli</i> , <i>Hibbertia hypericoides</i> and <i>Conostephium pendulum</i> .	K4
M135	E 380570 N 6525634	Low Open Woodland of <i>Eucalyptus totitiana</i> over <i>Adenanthos cygnorum</i> , <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> , <i>Xanthorrhoea preissii</i> , <i>Regelia ciliata</i> and <i>Leucopogon conostephioides</i> .	G1
M135b	E 378625 N 6527794	Low Open Forest of <i>Eucalyptus rudis</i> - <i>Banksia littoralis</i> over <i>Acacia saligna</i> , <i>Hakea varia</i> and various introduced species.	K2
M136	E 381150 N 6529050	Low Open Woodland of <i>Melaleuca preissiana</i> over <i>Astartea fascicularis</i> , <i>Agonis flexuosa</i> , <i>Pericalymma ellipticum</i> var. <i>ellipticum</i> , <i>Beaufortia elegans</i> and <i>Hypolaena exsulca</i> .	K1
M137	E 380844 N 6527408	Low Open Woodland of <i>Melaleuca preissiana</i> - <i>Banksia attenuata</i> - <i>Eucalyptus totitiana</i> over <i>Xanthorrhoea preissii</i> , <i>Calytrix flavescens</i> and <i>Dasyopogon bromeliifolius</i> .	K1
M138	E 383601 N 6526850	Woodland of <i>Melaleuca preissiana</i> - <i>Nuytsia floribunda</i> - <i>Banksia ilicifolia</i> over <i>Xanthorrhoea preissii</i> , <i>Beaufortia elegans</i> , <i>Bossiaea eriocarpa</i> and <i>Verticordia nitens</i> .	K4
M139	E 383283 N 6526988	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> over <i>Verticordia nitens</i> , <i>Xanthorrhoea preissii</i> , <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> and <i>Scholtzia involucreta</i> .	H1
M140	E 389913 N 6521322	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Melaleuca trichophylla</i> , <i>Beaufortia elegans</i> , <i>Lyginia barbata</i> and <i>Hibbertia subvaginata</i> .	G1
M141	E 389780 N 6521250	Low Open Woodland of <i>Banksia menziesii</i> - <i>Banksia attenuata</i> over <i>Adenanthos cygnorum</i> , <i>Verticordia nitens</i> , <i>Patersonia occidentalis</i> , <i>Dasyopogon bromeliifolius</i> and <i>Beaufortia elegans</i> .	G1

APPENDIX C: SUMMARY OF SITE-VEGETATION TYPES FOR SITES ON GNANGARA MOUND AREAS

Site-Vegetation	Site Description
A1	Closed Heath of <i>Melaleuca huegelii</i> , <i>Trymalium ledifolium</i> , <i>Grevillea preissii</i> subsp. <i>preissii</i> , <i>Grevillea vestita</i> and <i>Dryandra sessilis</i> .
B1	Closed Heath of <i>Jacksonia hakeoides</i> , <i>Conospermum triplinervium</i> , <i>Calothamnus quadrifidus</i> , <i>Melaleuca systena</i> and <i>Lechenaultia linarioides</i> .
B2	Woodland of <i>Eucalyptus gomphocephala</i> - <i>Banksia attenuata</i> - <i>Allocasuarina fraseriana</i> over <i>Hibbertia hypericoides</i> , <i>Hakea trifurcata</i> , <i>Conospermum canaliculatum</i> , <i>Melaleuca systena</i> , <i>Macrozamia riedlei</i> , <i>Acacia puchella</i> var. <i>glaberrima</i> and <i>Stirlingia latifolia</i> .
B3	Low Woodland of <i>Eucalyptus decipiens</i> subsp. <i>decipiens</i> - <i>Banksia attenuata</i> - <i>Allocasuarina fraseriana</i> with pockets of <i>Eucalyptus foecunda</i> over <i>Hakea prostrata</i> , <i>Hakea ruscifolia</i> , <i>Xanthorrhoea preissii</i> , <i>Daviesia divaricata</i> and <i>Scholtzia involucrata</i> .
B4	Shrubland of <i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i> , <i>Melaleuca systena</i> , <i>Xanthorrhoea preissii</i> and <i>Hibbertia hypericoides</i> with limestone outcropping.
C1	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Allocasuarina fraseriana</i> over <i>Hibbertia hypericoides</i> , <i>Hibbertia racemosa</i> , <i>Hakea costata</i> , <i>Petrophile serruriae</i> , <i>Petrophile brevifolia</i> , <i>Jacksonia hakeoides</i> , <i>Jacksonia sternbergiana</i> , <i>Mesomelaena stygia</i> , <i>Xanthorrhoea preissii</i> and <i>Stirlingia latifolia</i> .
D1	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Mesomelaena stygia</i> , <i>Calothamnus sanguineus</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> and <i>Melaleuca scabra</i> .
E1	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Eremaea fimbriata</i> , <i>Xanthorrhoea preissii</i> , <i>Synaphea spinulosa</i> subsp. <i>spinulosa</i> , <i>Stirlingia latifolia</i> and <i>Melaleuca scabra</i> .
F1	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia grandis</i> over <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> , <i>Xanthorrhoea preissii</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> and <i>Jacksonia calcicola</i> (ms) with pockets of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Nuytsia floribunda</i> over <i>Melaleuca systena</i> , <i>Allocasuarina humilis</i> and <i>Xanthorrhoea preissii</i> .
G1	Low Woodland to Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Eucalyptus todtiana</i> - <i>Nuytsia floribunda</i> with occasional <i>Allocasuarina fraseriana</i> and <i>Banksia grandis</i> (southern section only) over <i>Leucopogon conostephioides</i> , <i>Scholtzia involucrata</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Melaleuca scabra</i> , <i>Boronia purdieana</i> subsp. <i>purdieana</i> and <i>Astroloma xerophyllum</i> .
G2	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Allocasuarina fraseriana</i> - <i>Eucalyptus todtiana</i> over <i>Xanthorrhoea preissii</i> , <i>Lysinema ciliatum</i> , <i>Verticordia nitens</i> , <i>Hibbertia hypericoides</i> , <i>Philothea spicata</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora</i> , <i>Bossiaea eriocarpa</i> , <i>Daviesia nudiflora</i> , <i>Mesomelaena pseudostygia</i> and <i>Stirlingia latifolia</i> .
G3	Woodland of <i>Eucalyptus marginata</i> - <i>Eucalyptus todtiana</i> over <i>Xanthorrhoea preissii</i> , <i>Hibbertia hypericoides</i> and <i>Phlebocarya ciliata</i> .

APPENDIX C: SUMMARY OF SITE-VEGETATION TYPES FOR SITES ON GNANGARA MOUND AREAS

Site-Vegetation	Site Description
H1	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> - <i>Nuytsia floribunda</i> over <i>Beaufortia elegans</i> , <i>Leucopogon polymorphus</i> , <i>Melaleuca systena</i> , <i>Calytrix angulata</i> , <i>Calytrix flavescens</i> , <i>Stirlingia latifolia</i> , <i>Dasyopogon bromeliifolius</i> , <i>Leucopogon conostephioides</i> , <i>Lyginia barbata</i> , <i>Macrozamia riedlei</i> and <i>Xanthorrhoea preissii</i> .
H2	Low Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Melaleuca viminea</i> , <i>Dasyopogon bromeliifolius</i> , <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> , <i>Xanthorrhoea preissii</i> , <i>Phlebocarya ciliata</i> and <i>Hibbertia subvaginata</i> .
H3	Low Open Woodland of <i>Banksia ilicifolia</i> - <i>Hakea prostrata</i> over <i>Melaleuca systena</i> , <i>Melaleuca trichophylla</i> , <i>Xanthorrhoea preissii</i> , <i>Scholtzia involuocrata</i> , <i>Calytrix flavescens</i> and <i>Petrophile brevifolia</i> .
H4	Low Woodland of <i>Banksia prionotes</i> over <i>Adenanthos cygnorum</i> , <i>Calytrix angulata</i> , <i>Verticordia densifolia</i> var. <i>densifolia</i> and <i>Regelia ciliata</i> .
I1	Low Open Woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> over <i>Verticordia nitens</i> , <i>Dasyopogon bromeliifolius</i> , <i>Melaleuca seriata</i> and <i>Patersonia occidentalis</i> .
J1	Woodland of <i>Corymbia calophylla</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Melaleuca preissiana</i> over <i>Xanthorrhoea preissii</i> , <i>Hypocalymma angustifolium</i> , <i>Pultenaea reticulata</i> , <i>Adenanthos obovatus</i> , <i>Regelia ciliata</i> and <i>Jacksonia furcellata</i> .
J2	Woodland of <i>Corymbia calophylla</i> over <i>Xanthorrhoea preissii</i> , <i>Hibbertia subvaginata</i> and <i>Gompholobium scabrum</i> .
K1	Open Forest of <i>Eucalyptus rudis</i> - <i>Melaleuca preissiana</i> - <i>Banksia ilicifolia</i> with occasional <i>Banksia attenuata</i> , <i>Banksia menziesii</i> , <i>Nuytsia floribunda</i> and <i>Eucalyptus todiana</i> over <i>Kennedia prostrata</i> , <i>Lyginia barbata</i> , <i>Xanthorrhoea preissii</i> , <i>Hypocalymma angustifolium</i> , <i>Dasyopogon bromeliifolius</i> , <i>Pericalymma ellipticum</i> var. <i>ellipticum</i> , <i>Astartea fascicularis</i> , <i>Lepidosperma tenue</i> , <i>Jacksonia furcellata</i> , <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> and <i>Bossiaea eriocarpa</i> .
K2	Open Forest of <i>Eucalyptus rudis</i> - <i>Melaleuca rhaphiophylla</i> - <i>Banksia ilicifolia</i> with occasional pockets of <i>Casuarina obesa</i> , <i>Melaleuca preissiana</i> , <i>Banksia littoralis</i> over <i>Baumea juncea</i> , <i>Lepidosperma longitudinale</i> , <i>Regelia ciliata</i> , <i>Hypolaena exsulca</i> and <i>Hakea varia</i> .
K3	Open Forest to Open Woodland of <i>Eucalyptus rudis</i> - <i>Melaleuca preissiana</i> over <i>Acacia saligna</i> and <i>Hypocalymma angustifolium</i> .
K4	Woodland of <i>Melaleuca preissiana</i> - <i>Banksia attenuata</i> - <i>Nuytsia floribunda</i> with the occasional <i>Banksia menziesii</i> and <i>Eucalyptus todiana</i> over <i>Xanthorrhoea preissii</i> , <i>Dasyopogon bromeliifolius</i> and <i>Jacksonia furcellata</i> .
K5	Closed Heath to Tall Shrubland of Myrtaceae - Proteaceae species including <i>Acacia saligna</i> , <i>Melaleuca lateriflora</i> , <i>Kunzea ericifolia</i> subsp. <i>ericifolia</i> , <i>Astartea fascicularis</i> , <i>Regelia ciliata</i> , <i>Kunzea recurva</i> , <i>Hypocalymma angustifolium</i> over <i>Drosera</i> species.
Q1	Shrubland of <i>Acacia rostellifera</i> , <i>Acacia lasiocarpa</i> , <i>Calothamnus quadrifidus</i> , <i>Melaleuca systena</i> , <i>Phyllanthus calycinus</i> and <i>Leucopogon parviflorus</i> .

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Acacia alata</i> var. <i>tetrantha</i>	M001 +
<i>Acacia barbinervis</i> subsp. <i>borealis</i>	
<i>Acacia benthamii</i> (P2)	
<i>Acacia cochlearis</i>	
<i>Acacia cyclops</i>	M026 +
<i>Acacia huegelii</i>	
<i>Acacia lasiocarpa</i>	
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	
<i>Acacia pulchella</i>	M022 +
<i>Acacia pulchella</i> var. <i>glaberrima</i>	
<i>Acacia rostellifera</i>	M027 +
<i>Acacia saligna</i>	
<i>Acacia sessilis</i>	
<i>Acacia</i> sp.	M029 +
<i>Acacia stenoptera</i>	
<i>Acacia truncata</i>	M024 +
<i>Acacia xanthina</i>	
<i>Acanthocarpus preissii</i>	M025 +
<i>Adenanthos barbiger</i>	
<i>Adenanthos cygnorum</i>	
<i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i>	
<i>Adenanthos obovatus</i>	
<i>Adenanthos</i> sp.	
<i>Agonis flexuosa</i>	
<i>Agonis linearifolia</i>	
<i>Agrostis avenacea</i>	
* <i>Aira caryophyllea</i>	
<i>Aira</i> sp.	
<i>Alexgeorgea nilens</i>	
	M002 +
	M003 +
	M004 +
	M005 +
	M007 +
	M008 +
	M009 +
	M010 +
	M011 +
	M012 +
	M013 +
	M014
	M015
	M016
	M017 +
	M018 +
	M019 +
	M020 +
	M021
	M022 +
	M023
	M024 +
	M025
	M026 +
	M027 +
	M028
	M029
	M030
	M031
	M032 +
	M033
	M034 +
	M035 +
	M036 +
	M037 +
	M038 +

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

D2.

Species	Quadrats
<i>Allocasuarina fraseriana</i>	
<i>Allocasuarina humilis</i>	
<i>Alyogyne huegelii</i>	
<i>Amperea ericoides</i>	
<i>Amphibromus nervosus</i>	
<i>Amphipogon ? amphipogonoides</i>	
<i>Amphipogon ? strictus</i>	
<i>Amphipogon lagurooides</i>	
<i>Amphipogon</i> sp.	
<i>Amphipogon turbinatus</i>	
* <i>Anagallis arvensis</i>	
<i>Anarthria gracilis</i>	
<i>Andersonia heterophylla</i>	
<i>Andersonia lehmanniana</i>	
<i>Andersonia lehmanniana</i> subsp. <i>lehmanniana</i>	
<i>Anigozanthos humilis</i>	
<i>Anigozanthos</i> sp.	
<i>Aotus gracillima</i>	
<i>Aotus procumbens</i>	
<i>Aphelia nutans</i>	
* <i>Arctotheca calendula</i>	
<i>Arnocrinum preissii</i>	
<i>Astartea fascicularis</i>	
<i>Asteraceae</i> sp.	
<i>Asteridea pulverulenta</i>	
<i>Astroloma microcalyx</i>	
<i>Astroloma pallidum</i>	
<i>Astroloma xerophyllum</i>	
M001	+
M002	
M003	+
M004	+
M005	
M006	+
M007	
M008	+
M009	
M010	
M011	+
M012	
M013	
M014	+
M015	
M016	
M017	+
M018	+
M019	+
M020	+
M021	+
M022	
M023	
M024	+
M025	+
M026	
M027	
M028	+
M029	+
M030	+
M031	+
M032	
M033	+
M034	
M035	+
M036	+
M037	+
M038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
* <i>Atriplex prostrata</i>	
<i>Austrodanthonia occidentalis</i>	
<i>Austrodanthonia ?occidentalis</i>	
<i>Austrodanthonia</i> sp.	
<i>Austrostipa</i> sp.	
<i>Austrostipa ?macalpinei</i>	
<i>Austrostipa compressa</i>	
<i>Austrostipa flavescens</i>	
<i>Austrostipa macalpinei</i>	
<i>Austrostipa</i> sp.	
* <i>Avellinia michelii</i>	
<i>Azolla filiculoides</i>	
<i>Baeckea camphorosmae</i>	
<i>Baeckea robusta</i>	
<i>Baeckea</i> sp.	
<i>Banksia attenuata</i>	
<i>Banksia grandis</i>	
<i>Banksia ilicifolia</i>	
<i>Banksia littoralis</i>	
<i>Banksia menziesii</i>	
<i>Banksia prionotes</i>	
<i>Baumea juncea</i>	
<i>Baumea vaginalis</i>	
<i>Beaufortia elegans</i>	
<i>Beyeria cinerea</i>	
<i>Blenospora</i> sp.	
<i>Boronia purdieana</i>	
<i>Boronia purdieana</i> subsp. <i>purdieana</i>	
<i>Boronia ramosa</i>	
M001	
M002	+
M003	
M004	
M005	
M006	
M007	
M008	
M009	
M010	
M011	
M012	
M013	
M014	
M015	
M016	+
M017	
M018	
M019	
M020	
M021	
M022	
M023	
M024	
M025	
M026	
M027	+
M028	
M029	
M030	
M031	
M032	
M033	+
M034	
M035	
M036	+
M037	
M038	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	M001
<i>Boronia ramosa</i> subsp. <i>ramosa</i>	M001
<i>Borya sphaerocephala</i>	M003, M004, M005
<i>Bossiaea eriocarpa</i>	M003, M004, M005
<i>Brachyscome iberidifolia</i>	M003, M004, M005
<i>Brachyscome</i> sp.	M003, M004, M005
<i>Brassica</i> sp.	M006
* <i>Briza maxima</i>	M006
* <i>Briza minor</i>	M006
* <i>Briza</i> sp.	M006
* <i>Bromus dianthus</i>	M006
* <i>Bromus rubens</i>	M006
* <i>Bromus</i> sp.	M006
? <i>Bromus</i> sp.	M006
<i>Burchardia bairdiae</i>	M006, M007, M008
<i>Burchardia umbellata</i>	M006, M007, M008
<i>Caesia</i> sp.	M006, M007, M008
<i>Caladenia flava</i> subsp. <i>flava</i>	M006, M007, M008
<i>Caladenia latifolia</i>	M006, M007, M008
<i>Caladenia marginata</i>	M006, M007, M008
<i>Caladenia paludosa</i>	M006, M007, M008
<i>Caladenia</i> sp.	M006, M007, M008
<i>Calandrinia brevipedata</i>	M006, M007, M008
<i>Calandrinia corrigioloides</i>	M006, M007, M008
<i>Calandrinia granulifera</i>	M006, M007, M008
<i>Calandrinia liniflora</i>	M006, M007, M008
<i>Calandrinia</i> sp.	M006, M007, M008
<i>Calcectasia cyanea</i> (P2)	M002, M003, M004, M005
<i>Calothammus lateralis</i>	M002, M003, M004, M005
	M009
	M010
	M011
	M012
	M013
	M014
	M015
	M016
	M017
	M018
	M019
	M020
	M021
	M022
	M023
	M024
	M025
	M026
	M027
	M028
	M029
	M030
	M031
	M032
	M033
	M034
	M035
	M036
	M037
	M038

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Calothamnus quadrifidus</i>	
<i>Calothamnus sanguineus</i>	
<i>Calytrix angulata</i>	
<i>Calytrix flavescens</i>	
<i>Calytrix fraseri</i>	
<i>Calytrix sapphirina</i>	
<i>Calytrix strigosa</i>	
* <i>Carpobrotus edulis</i>	
<i>Carpobrotus virescens</i>	
<i>Caryophyllaceae</i> sp.	
<i>Cassylia flava</i>	
<i>Cassylia glabella</i>	
<i>Cassylia pomiformis</i>	
<i>Cassylia racemosa</i>	
<i>Cassylia</i> sp.	
<i>Casuarina obesa</i>	
<i>Causis dioica</i>	
* <i>Centaurium erythraea</i>	
<i>Centrolepis aristata</i>	
<i>Centrolepis drummondiana</i>	
<i>Centrolepis mutica</i>	
<i>Centrolepis polygyna</i>	
* <i>Cerastium glomeratum</i>	
<i>Chamaescilla corymbosa</i>	
* <i>Chenopodium macrospermum</i>	
<i>Chordifex microcodon</i>	
<i>Chorizandra enodis</i>	
* <i>Cicendia filiformis</i>	
<i>Comesperma calymega</i>	
M1001	
M1002	+
M1003	+
M1004	+
M1005	+
M1006	+
M1007	+
M1008	+
M1009	+
M1010	+
M1011	+
M1012	+
M1013	+
M1014	+
M1015	+
M1016	+
M1017	+
M1018	
M1019	+
M1020	+
M1021	+
M1022	+
M1023	
M1024	+
M1025	+
M1026	+
M1027	+
M1028	+
M1029	+
M1030	+
M1031	+
M1032	+
M1033	+
M1034	+
M1035	
M1036	+
M1037	+
M1038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Comesperma confertum</i>	
<i>Comesperma integerrimum</i>	
<i>Comesperma</i> sp.	
<i>Conospermum acerosum</i> subsp. <i>acerosum</i>	
<i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i>	
<i>Conospermum incurvum</i>	
<i>Conospermum stoechadis</i> subsp. <i>stoechadis</i>	
<i>Conospermum triplinervium</i>	
<i>Conostephium pendulum</i>	
<i>Conostephium minus</i> (P4)	
<i>Conostephium pendulum</i>	
<i>Conostephium preissii</i>	
<i>Conostylis aculeata</i>	
<i>Conostylis aurea</i>	
<i>Conostylis candicans</i> subsp. <i>candicans</i>	
<i>Conostylis juncea</i>	
<i>Conostylis pauciflora</i>	
<i>Conostylis pauciflora</i> subsp. <i>ewryhipis</i> (P3)	
<i>Conostylis serrulata</i>	
<i>Conostylis setigera</i> subsp. <i>setigera</i>	
<i>Conostylis setosa</i>	
<i>Conostylis</i> sp.	
* <i>Comyza albida</i>	
<i>Comyza</i> sp.	
<i>Corymbia calophylla</i>	
<i>Corynotheca micrantha</i>	
<i>Cotula coronopifolia</i>	
<i>Crassula colorata</i>	
<i>Crassula colorata</i> var. <i>acuminata</i>	
M001	+
M002	
M003	+
M004	+
M005	+
M006	+
M007	+
M008	+
M009	+
M010	+
M011	
M012	+
M013	+
M014	+
M015	+
M016	+
M017	+
M018	+
M019	+
M020	+
M021	+
M022	+
M023	+
M024	+
M025	+
M026	+
M027	+
M028	+
M029	+
M030	+
M031	+
M032	+
M033	+
M034	+
M035	+
M036	+
M037	+
M038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Crassula ?colorata</i>	
<i>Crassula exserta</i>	
* <i>Crassula glomerata</i>	
* <i>Crassula natans</i>	
<i>Crassula</i> sp.	
<i>Cristonia biloba</i>	
<i>Croninia kingiana</i>	
<i>Cryptandra mutila</i>	
<i>Cryptandra pungens</i>	
<i>Cyanicula deformis</i>	
<i>Cyathochaeta avenacea</i>	
* <i>Cyperus tenellus</i>	
<i>Cyrtostylis robusta</i>	
<i>Cyrtostylis</i> sp.	
<i>Dampiera linearis</i>	
<i>Dampiera</i> sp.	
<i>Dasyogon bromeliifolius</i>	
<i>Dasyogon</i> sp.	
<i>Daucus glochidiatus</i>	
<i>Daviesia decurrens</i>	
<i>Daviesia decurrens</i> subsp. <i>decurrens</i> (ms)	
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> (ms)	
<i>Daviesia nudiflora</i>	
<i>Daviesia physodes</i>	
<i>Daviesia podophylla</i>	
<i>Daviesia quadrilatera</i>	
<i>Desmocladius fasciculatus</i>	
<i>Desmocladius flexuosus</i>	
<i>Dianella revoluta</i>	
M001	+
M002	
M003	+
M004	+
M005	+
M006	+
M007	+
M008	
M009	+
M010	+
M011	
M012	+
M013	+
M014	
M015	
M016	+
M017	+
M018	+
M019	+
M020	+
M021	+
M022	+
M023	+
M024	+
M025	+
M026	+
M027	+
M028	+
M029	+
M030	
M031	+
M032	+
M033	+
M034	+
M035	+
M036	+
M037	
M038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Dichelachne crinita</i>	M001
<i>Dichopogon capillipes</i>	M001
<i>Dielis stenostachya</i>	M001
<i>Dillwynia dillwynioides</i>	M001
<i>Diplolaena angustifolia</i>	M001
<i>Diplopeltis huegelii</i>	M001
<i>Disa bracteata</i>	M001
* <i>Dischisma arenarium</i>	M001
<i>Dischisma</i> sp.	M001
<i>Diuris longifolia</i>	M001
<i>Diuris</i> sp.	M001
<i>Drosera erythrorhiza</i>	M001
<i>Drosera gigantea</i> subsp. <i>gigantea</i>	M001
<i>Drosera glanduligera</i>	M001
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	M001
<i>Drosera menziesii</i>	M001
<i>Drosera menziesii</i> subsp. <i>penicillaris</i>	M001
<i>Drosera menziesii</i> subsp. <i>menziesii</i>	M001
<i>Drosera neesii</i>	M001
<i>Drosera nitidula</i>	M001
<i>Drosera paleacea</i>	M001
<i>Drosera pallida</i>	M001
<i>Drosera rosulata</i>	M001
<i>Drosera</i> sp.	M001
<i>Drosera</i> sp. climbing	M001
<i>Dryandra lindleyana</i>	M001
<i>Dryandra lindleyana</i> var. <i>lindleyana</i>	M001
<i>Dryandra nivea</i>	M001
<i>Dryandra sessilis</i>	M001
	M002
	M003
	M004
	M005
	M006
	M007
	M008
	M009
	M010
	M011
	M012
	M013
	M014
	M015
	M016
	M017
	M018
	M019
	M020
	M021
	M022
	M023
	M024
	M025
	M026
	M027
	M028
	M029
	M030
	M031
	M032
	M033
	M034
	M035
	M036
	M037
	M038

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Ecdiocolea monostachya</i>	
* <i>Ehrharta calycina</i>	
* <i>Ehrharta longiflora</i>	
<i>Ehrharta</i> sp.	
<i>Eleocharis acuta</i>	
<i>Eleocharis</i> sp.	
<i>Elythranthera brunonis</i>	
<i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i>	
<i>Eremaea beaufortioides</i>	
<i>Eremaea brevifolia</i>	
<i>Eremaea pauciflora</i>	
<i>Eremaea pauciflora</i> var. <i>pauciflora</i>	
<i>Eremaea</i> sp.	
<i>Eremophila glabra</i>	
<i>Eriochilus dilatatus</i>	
* <i>Erodium botrys</i>	
* <i>Erodium cicutarium</i>	
* <i>Erodium moschatum</i>	
<i>Eryngium pinnatifidum</i> subsp. <i>palustre</i> (ms)	
<i>Eucalyptus decipiens</i>	
<i>Eucalyptus decipiens</i> subsp. <i>decipiens</i>	
<i>Eucalyptus foecunda</i>	
<i>Eucalyptus gomphocephala</i>	
<i>Eucalyptus marginata</i>	
<i>Eucalyptus petrensis</i>	
<i>Eucalyptus rudis</i>	
<i>Eucalyptus toditiana</i>	
<i>Eucalyptus gomphocephala</i>	
<i>Euchilopsis linearis</i>	
M001	
M002	
M003	+
M004	+
M005	+
M006	
M007	
M008	
M009	
M010	
M011	+
M012	+
M013	+
M014	
M015	+
M016	
M017	+
M018	+
M019	+
M020	+
M021	
M022	+
M023	
M024	
M025	+
M026	
M027	+
M028	+
M029	+
M030	
M031	+
M032	
M033	+
M034	
M035	+
M036	
M037	+
M038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Euchiton sphaericus</i>	
* <i>Euphorbia terracina</i>	
<i>Exocarpos sparteus</i>	
? <i>Gahnia</i> sp.	
* <i>Galium murale</i>	
<i>Geranium retrorsum</i>	
<i>Geranium solanderi</i>	
* <i>Gladiolus caryophyllaceus</i>	
<i>Gladiolus</i> sp.	
<i>Glossostigma dianthrum</i>	
<i>Gnephosis tenuissima</i>	
<i>Gompholobium capitatum</i>	
<i>Gompholobium confertum</i>	
<i>Gompholobium knightianum</i>	
<i>Gompholobium scabrum</i>	
<i>Gompholobium stutleworthii</i>	
<i>Gompholobium</i> sp.	
<i>Gompholobium tomentosum</i>	
<i>Gonocarpus ?pithyoides</i>	
<i>Gonocarpus cordiger</i>	
<i>Gonocarpus pithyoides</i>	
<i>Gonocarpus</i> sp.	
<i>Goodenia micrantha</i>	
<i>Gratiola pubescens</i>	
<i>Grevillea preissii</i>	
<i>Grevillea preissii</i> subsp. <i>preissii</i>	
<i>Grevillea vestita</i>	
<i>Grevillea vestita</i> subsp. <i>vestita</i>	
<i>Haemodorum laxum</i>	
M001	
M002	+
M003	+
M004	
M005	+
M006	+
M007	
M008	
M009	
M010	+
M011	
M012	+
M013	+
M014	
M015	+
M016	+
M017	
M018	+
M019	+
M020	+
M021	+
M022	
M023	
M024	+
M025	
M026	
M027	+
M028	
M029	
M030	
M031	+
M032	
M033	
M034	
M035	
M036	+
M037	+
M038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Haemodorum paniculatum</i>	
<i>Haemodorum simplex</i>	
<i>Haemodorum</i> sp.	
<i>Haemodorum spicatum</i>	
<i>Hakea costata</i>	
<i>Hakea erinacea</i>	
<i>Hakea lissocarpa</i>	
<i>Hakea prostrata</i>	
<i>Hakea ruscifolia</i>	
<i>Hakea trifurcata</i>	
<i>Hakea varia</i>	
<i>Hardenbergia comptoniana</i>	
* <i>Heliophila pusilla</i>	
<i>Heliotropium curassavicum</i>	
<i>Hemiantra purgens</i>	
<i>Hemigenia</i> ? <i>incana</i>	
<i>Hensmania turbinata</i>	
<i>Hibbertia</i> aff. <i>pachyrrhiza</i>	
<i>Hibbertia aurea</i>	
<i>Hibbertia crassifolia</i>	
<i>Hibbertia</i> aff. <i>helianthemoides</i>	
<i>Hibbertia huegelii</i>	
<i>Hibbertia hypericoides</i>	
<i>Hibbertia pachyrrhiza</i>	
<i>Hibbertia racemosa</i>	
<i>Hibbertia</i> sp.	
<i>Hibbertia spicata</i>	
<i>Hibbertia spicata</i> subsp. <i>leptotheca</i>	
<i>Hibbertia stellaris</i>	
M001	+
M002	+
M003	+
M004	+
M005	+
M006	+
M007	+
M008	+
M009	+
M010	+
M011	+
M012	+
M013	+
M014	+
M015	+
M016	+
M017	+
M018	+
M019	+
M020	+
M021	+
M022	+
M023	+
M024	+
M025	+
M026	+
M027	+
M028	+
M029	+
M030	+
M031	+
M032	+
M033	+
M034	+
M035	+
M036	+
M037	+
M038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
M001	+
M002	+
M003	+
M004	+
M005	+
M006	+
M007	+
M008	+
M009	+
M010	+
M011	+
M012	+
M013	+
M014	+
M015	+
M016	+
M017	+
M018	+
M019	+
M020	+
M021	+
M022	+
M023	+
M024	+
M025	+
M026	+
M027	+
M028	+
M029	+
M030	+
M031	+
M032	+
M033	+
M034	+
M035	+
M036	+
M037	+
M038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Jacksonia floribunda</i>	M001 +
<i>Jacksonia furcellata</i>	M002 +
<i>Jacksonia hakeoides</i>	M003 +
<i>Jacksonia sericea</i> (P3)	M004
<i>Jacksonia sternbergiana</i>	M005
* <i>Juncus capitatis</i>	M006 +
<i>Juncus</i> sp.	M007
<i>Kennedia prostrata</i>	M008 +
<i>Kennedia</i> sp.	M009 +
<i>Kunzea ericifolia</i>	M010
<i>Kunzea ericifolia</i> subsp. <i>ericifolia</i>	M011 +
<i>Kunzea recurva</i>	M012 +
<i>Lagenophora huegelii</i>	M013 +
<i>Latrobea tenella</i> var. <i>tenella</i>	M014 +
<i>Laxmannia ramosa</i>	M015 +
<i>Laxmannia sessiliflora</i>	M016 +
<i>Laxmannia</i> sp.	M017
<i>Laxmannia squarrosa</i>	M018 +
<i>Lechenaultia biloba</i>	M019 +
<i>Lechenaultia expansa</i>	M020 +
<i>Lechenaultia floribunda</i>	M021 +
<i>Lechenaultia linarioides</i>	M022 +
<i>Lemna disperma</i>	M023 +
<i>Lepidium rotundum</i>	M024 +
<i>Lepidobolus chaetocephalus</i>	M025 +
<i>Lepidobolus preissianus</i>	M026 +
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	M027 +
<i>Lepidobolus</i> sp.	M028 +
<i>Lepidosperma</i> aff. <i>leptostachyum</i>	M029 +
	M030 +
	M031 +
	M032 +
	M033 +
	M034 +
	M035 +
	M036 +
	M037 +
	M038

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Lepidosperma gladiatum</i>	M001 +
<i>Lepidosperma longitudinale</i>	
<i>Lepidosperma pubisquamum</i>	
<i>Lepidosperma</i> sp.	
<i>Lepidosperma squamatum</i>	
<i>Lepidosperma tenue</i>	
<i>Leporella fimbriata</i>	
<i>Leptomeria cuminghamii</i>	
<i>Leptomeria empetriformis</i>	
<i>Leptomeria pauciflora</i>	
<i>Leptorhynchus scaber</i>	
<i>Leptospermum spinescens</i>	
<i>Leucopogon ?sprengelioides</i>	
<i>Leucopogon conostephioides</i>	
<i>Leucopogon leptanthus</i>	
<i>Leucopogon oxycedrus</i>	
<i>Leucopogon parviflorus</i>	
<i>Leucopogon polymorphus</i>	
<i>Leucopogon propinquus</i>	
<i>Leucopogon racemulosus</i>	
<i>Leucopogon</i> sp.	
<i>Leucopogon</i> sp. (indeterminant) M137-1	
<i>Leucopogon sprengelioides</i>	
<i>Leucopogon squarrosus</i>	
<i>Levenhookia pusilla</i>	
<i>Levenhookia</i> sp.	
<i>Levenhookia stipitata</i>	
<i>Lobelia alata</i>	
<i>Lobelia heterophylla</i>	
	M002
	M003 +
	M004 +
	M005 +
	M006 +
	M007
	M008 +
	M009 +
	M010 +
	M011 +
	M012 +
	M013 +
	M014 +
	M015 +
	M016 +
	M017 +
	M018 +
	M019 +
	M020 +
	M021
	M022 +
	M023 +
	M024 +
	M025
	M026
	M027 +
	M028
	M029 +
	M030 +
	M031 +
	M032
	M033
	M034 +
	M035
	M036 +
	M037 +
	M038 +

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Lobelia</i> sp.	
<i>Lobelia tenuior</i>	
* <i>Lolium multiflorum</i> x <i>perenne</i>	
* <i>Lolium rigidum</i>	
<i>Lomandra ?britannii</i>	
<i>Lomandra caespitosa</i>	
<i>Lomandra ?caespitosa</i>	
<i>Lomandra hermaphrodita</i>	
<i>Lomandra ?hermaphrodita</i>	
<i>Lomandra maritima</i>	
<i>Lomandra micrantha</i>	
<i>Lomandra nigricans</i>	
<i>Lomandra preissii</i>	
<i>Lomandra sericea</i>	
<i>Lomandra sonderi</i>	
<i>Lomandra ?sonderi</i>	
<i>Lomandra</i> sp.	
<i>Lomandra suaveolens</i>	
* <i>Lotus angustissimus</i>	
* <i>Lotus suaveolens</i>	
<i>Loxocarya cinerea</i>	
<i>Lyginia barbata</i>	
<i>Lyperanthus serratus</i>	
<i>Lysinema ciliatum</i>	
<i>Lysinema elegans</i>	
<i>Macarthuria apetala</i>	
<i>Macrozamia riedlei</i>	
<i>Meeboldina cana</i>	
<i>Melaleuca cardiophylla</i>	
M001	
M002	+
M003	+
M004	
M005	+
M006	
M007	
M008	
M009	
M010	+
M011	+
M012	+
M013	+
M014	+
M015	
M016	
M017	+
M018	+
M019	+
M020	+
M021	+
M022	
M023	
M024	+
M025	
M026	
M027	
M028	
M029	+
M030	
M031	+
M032	+
M033	+
M034	+
M035	
M036	+
M037	+
M038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Melaleuca huegelii</i>	
<i>Melaleuca lateriflora</i>	
<i>Melaleuca preissiana</i>	
<i>Melaleuca raphiophylla</i>	
<i>Melaleuca scabra</i>	
<i>Melaleuca seriata</i>	
<i>Melaleuca</i> sp.	
<i>Melaleuca systema</i>	
<i>Melaleuca ?systema</i>	
<i>Melaleuca</i> aff. <i>systema</i>	
<i>Melaleuca teretifolia</i>	
<i>Melaleuca trichophylla</i>	
<i>Melaleuca ?trichophylla</i>	
<i>Melaleuca</i> aff. <i>trichophylla</i>	
<i>Melaleuca viminea</i>	
* <i>Melilotus indicus</i>	
<i>Mesomelaena graciliceps</i>	
<i>Mesomelaena pseudostygia</i>	
<i>Mesomelaena stygia</i>	
<i>Mesomelaena tetragona</i>	
<i>Microlaena stipoides</i>	
<i>Microlaena stipoides</i> var. <i>stipoides</i>	
<i>Microtis alba</i>	
<i>Mililotia tenuifolia</i> var. <i>tenuifolia</i>	
* <i>Monopsis debilis</i>	
<i>Muehlenbeckia polybotrya</i>	
<i>Myoporum insulare</i>	
<i>Myriocephalus helichrysoides</i>	
Myrtaceae sp.	
M001	+
M002	
M003	+
M004	+
M005	+
M006	+
M007	+
M008	
M009	
M010	+
M011	
M012	
M013	
M014	
M015	
M016	
M017	+
M018	+
M019	+
M020	+
M021	
M022	+
M023	
M024	
M025	
M026	+
M027	+
M028	+
M029	+
M030	
M031	
M032	+
M033	
M034	+
M035	+
M036	+
M037	+
M038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Nemcia capitata</i>	M001
<i>Nemcia reticulata</i>	M002
<i>Notodanthonia</i> sp.	M003
<i>Nuyisia floribunda</i>	M004
<i>Olaix benthamiana</i>	M005
<i>Olearia axillaris</i>	M006
<i>Olearia rudis</i>	M007
<i>Oligochaetochilus vittata</i>	M008
<i>Opercularia echinocephala</i>	M009
<i>Opercularia</i> sp.	M010
<i>Opercularia spermacocea</i>	M011
<i>Opercularia vaginata</i>	M012
* <i>Orobanche minor</i>	M013
Orchidaceae sp.	M014
<i>Orthrosanthus laxus</i>	M015
<i>Oxalis perennans</i>	M016
? <i>Oxalis corniculata</i>	M017
<i>Ozothamnus cordatus</i>	M018
* <i>Parentucellia latifolia</i>	M019
<i>Parietaria debilis</i>	M020
<i>Patersonia occidentalis</i>	M021
<i>Patersonia</i> sp.	M022
* <i>Pelargonium capitatum</i>	M023
<i>Pelargonium littorale</i>	M024
* <i>Pentaschistis airoides</i>	M025
<i>Pericalymma ellipticum</i>	M026
<i>Pericalymma ellipticum</i> var. <i>ellipticum</i>	M027
<i>Persoonia comata</i>	M028
<i>Petrophile brevifolia</i>	M029
	M030
	M031
	M032
	M033
	M034
	M035
	M036
	M037
	M038

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Petrophile drummondii</i>	
<i>Petrophile linearis</i>	
<i>Petrophile macrostachya</i>	
<i>Petrophile seminuda</i>	
<i>Petrophile serruriae</i>	
<i>Petrophile</i> sp.	
* <i>Petrophagia dubia</i>	
* <i>Phalaris minor</i>	
<i>Philothea spicata</i>	
<i>Philydrella pygmaea</i>	
<i>Phlebocarya ciliata</i>	
<i>Phyllangium paradoxum</i>	
<i>Phyllanthus calycinus</i>	
<i>Phylloglossum drummondii</i>	
<i>Pimelea calcicola</i>	
<i>Pimelea ferruginea</i>	
<i>Pimelea floribunda</i>	
<i>Pimelea rosea</i>	
<i>Pimelea</i> sp.	
<i>Pimelea suaveolens</i>	
<i>Pimelea sulphurea</i>	
* <i>Pinus radiata</i>	
<i>Pithocarpa corymbulosa</i> (P2)	
<i>Pithocarpa</i> sp.	
<i>Platytheca galioides</i>	
* <i>Poa annua</i>	
<i>Poa drummondiana</i>	
<i>Poa poiformis</i>	
* <i>Poa pratensis</i>	
M001	+
M002	
M003	+
M004	+
M005	+
M006	+
M007	+
M008	+
M009	+
M010	+
M011	+
M012	+
M013	+
M014	+
M015	+
M016	+
M017	+
M018	+
M019	+
M020	+
M021	+
M022	
M023	
M024	
M025	+
M026	+
M027	+
M028	+
M029	+
M030	+
M031	+
M032	+
M033	
M034	+
M035	+
M036	+
M037	+
M038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Poaceae</i> sp.	
<i>Podolepis gracilis</i>	
<i>Podolepis lessonii</i>	
<i>Podotheca ?chrysantha</i>	
<i>Podotheca angustifolia</i>	
<i>Podotheca angustifolia/gnaphalioides?</i>	
<i>Podotheca chrysantha</i>	
<i>Podotheca gnaphalioides</i>	
<i>Podotheca</i> sp.	
<i>Pogonolepis stricta</i>	
* <i>Polyogon monspeliensis</i>	
<i>Poranthera ericoides</i>	
<i>Poranthera microphylla</i>	
<i>Prasophyllum drummondii</i>	
<i>Prasophyllum</i> sp.	
<i>Pteridium esculentum</i>	
<i>Pterostylis ?brevisepala</i> (ms)	
<i>Pterostylis</i> aff. <i>nana</i> SCP GJK/NG 1867cbs	
<i>Pterostylis recurva</i>	
<i>Pterostylis sanguinea</i>	
<i>Pterostylis</i> sp.	
<i>Pterostylis</i> sp. short sepals (W. JacksonBJ 259) (PN)	
<i>Ptilotus drummondii</i>	
<i>Ptilotus drummondii</i> var. <i>drummondii</i>	
<i>Ptilotus humilis</i> subsp. <i>humilis</i>	
<i>Ptilotus manglesii</i>	
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>	
<i>Ptilotus</i> sp.	
? <i>Puccinellia</i> sp.	
M001	+
M002	
M003	+
M004	
M005	
M006	
M007	+
M008	
M009	+
M010	+
M011	
M012	+
M013	+
M014	+
M015	
M016	+
M017	
M018	
M019	+
M020	
M021	
M022	+
M023	+
M024	+
M025	+
M026	+
M027	+
M028	+
M029	
M030	
M031	+
M032	
M033	+
M034	
M035	+
M036	+
M037	+
M038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Pultenaea reticulata</i>	
<i>Pyrorchis nigricans</i>	
? <i>Pyrorchis nigricans</i>	
<i>Quinetia urvillei</i>	
<i>Regelia ciliata</i>	
<i>Regelia ?ciliata</i>	
<i>Regelia inops</i>	
<i>Restio</i> sp.	
<i>Rhagodia baccata</i>	
<i>Rhagodia baccata</i> subsp. <i>baccata</i>	
<i>Rhodanthe citrina</i>	
<i>Rhodanthe corymbosa</i>	
<i>Rhodanthe</i> sp.	
* <i>Romulea obscura</i>	
<i>Romulea rosea</i>	
* <i>Rostraria cristata</i>	
* <i>Sagina apetala</i>	
<i>Santalum acuminatum</i>	
<i>Sarcozona bicarinata</i> (P3)	
<i>Scaevola canescens</i>	
<i>Scaevola ?canescens</i>	
<i>Scaevola crassifolia</i>	
<i>Scaevola crassifolia/hiitida</i>	
<i>Scaevola hiitida</i>	
<i>Scaevola paludosa</i>	
<i>Scaevola repens</i>	
<i>Scaevola repens</i> var. <i>angustifolia</i>	
<i>Scaevola repens</i> var. <i>repens</i>	
<i>Scaevola</i> sp.	
M001	
M002	+
M003	+
M004	+
M005	
M006	+
M007	+
M008	
M009	+
M010	
M011	
M012	+
M013	+
M014	+
M015	+
M016	+
M017	
M018	
M019	
M020	
M021	+
M022	
M023	+
M024	+
M025	+
M026	+
M027	+
M028	+
M029	+
M030	+
M031	
M032	+
M033	
M034	
M035	
M036	+
M037	+
M038	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
M001	
M002	
M003	+
M004	
M005	+
M006	+
M007	
M008	
M009	+
M010	+
M011	+
M012	+
M013	+
M014	+
M015	+
M016	+
M017	+
M018	+
M019	+
M020	+
M021	+
M022	
M023	+
M024	+
M025	
M026	+
M027	
M028	
M029	
M030	
M031	
M032	
M033	+
M034	
M035	
M036	+
M037	
M038	+

*Scaevola thesioides**Schoenolaena juncea**Schoenus* aff. *brevisetis**Schoenus asperocarpus**Schoenus breviculmis**Schoenus brevisetis**Schoenus caespititius**Schoenus* ?*caespititius**Schoenus clandestinus**Schoenus curvifolius**Schoenus efoliatus**Schoenus grandiflorus**Schoenus lanatus**Schoenus namus**Schoenus natans* (P4)*Schoenus odontocarpus**Schoenus rigens**Schoenus* sp.*Schoenus* ?*subfascicularis**Scholtzia involuocrata**Scholtzia* sp.*Selaginella gracillima**Senecio lautus**Senecio lautus* subsp. *maritimus**Senecio lautus* subsp. *dissectifolius**Senecio* sp.**Silene gallica**Siloxerus humifusus***Solanum americanum*

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Solanum nigrum</i>	M001 +
<i>Sonchus oleraceus</i>	M001 +
<i>Sowerbaea laxiflora</i>	
<i>Sphaerolobium</i> sp.	
<i>Sphaerolobium vimineum</i>	
<i>Spyridium globulosum</i>	
<i>Stachystemon axillaris</i> (P4)	
<i>Stachhouisia monogyne</i>	
<i>Stachhouisia</i> sp.	
* <i>Stellaria media</i>	
<i>Stenopetalum gracile</i>	
<i>Stirlingia latifolia</i>	
<i>Stylidium adpressum</i>	
<i>Stylidium amoenum</i>	
<i>Stylidium brunonianum</i> subsp. <i>brunonianum</i>	
<i>Stylidium bulbiferum</i>	
<i>Stylidium calcaratum</i>	
<i>Stylidium crossocephalum</i>	
<i>Stylidium diuroides</i> subsp. <i>diuroides</i>	
<i>Stylidium inundatum</i>	
<i>Stylidium junceum</i>	
<i>Stylidium lateriticola</i>	
<i>Stylidium longitubum</i> (P3)	
<i>Stylidium macrocarpum</i>	
<i>Stylidium marinatum</i>	
<i>Stylidium miniatum</i>	
<i>Stylidium petiolare</i>	
<i>Stylidium piliferum</i> subsp. <i>piliferum</i>	
<i>Stylidium repens</i>	
	M002 +
	M003 +
	M004 +
	M005 +
	M006 +
	M007 +
	M008 +
	M009 +
	M010 +
	M011 +
	M012 +
	M013 +
	M014 +
	M015 +
	M016 +
	M017 +
	M018 +
	M019 +
	M020 +
	M021 +
	M022 +
	M023 +
	M024 +
	M025 +
	M026 +
	M027 +
	M028 +
	M029 +
	M030 +
	M031 +
	M032 +
	M033 +
	M034 +
	M035 +
	M036 +
	M037 +
	M038 +

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Stylidium schoenoides</i>	
<i>Stylidium</i> sp.	
<i>Synaphea petiolaris</i>	
<i>Synaphea</i> sp.	
<i>Synaphea spinulosa</i>	
<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>	
<i>Templetonia retusa</i>	
<i>Tersonia cyathiflora</i>	
* <i>Tetragonia decumbens</i>	
<i>Tetragonia capillaris</i>	
<i>Tetragonia octandra</i>	
<i>Thelymitra antennifera</i>	
<i>Thelymitra campanulata</i>	
<i>Thelymitra crinita</i>	
<i>Thelymitra flexuosa</i>	
<i>Thelymitra</i> sp.	
<i>Thomasia triphylla</i>	
<i>Threlkedia diffusa</i>	
<i>Thysanotus arenarius</i>	
<i>Thysanotus dichotomus</i>	
<i>Thysanotus manglesianus</i>	
<i>Thysanotus manglesianus</i> / <i>patersonii</i>	
<i>Thysanotus patersonii</i>	
<i>Thysanotus patersonii</i> / <i>manglesianus</i>	
<i>Thysanotus</i> sp.	
<i>Thysanotus sparteus</i>	
<i>Thysanotus thyrsoideus</i>	
<i>Thysanotus ?thyrsoideus</i>	
<i>Thysanotus triandrus</i>	
M001	+
M002	+
M003	
M004	
M005	+
M006	+
M007	+
M008	
M009	
M010	
M011	
M012	+
M013	
M014	
M015	
M016	
M017	
M018	
M019	
M020	
M021	+
M022	+
M023	
M024	
M025	
M026	
M027	
M028	
M029	
M030	
M031	
M032	
M033	
M034	
M035	+
M036	+
M037	+
M038	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Trachymene coerulea</i>	
<i>Trachymene pilosa</i>	
<i>Tribonanthes australis</i>	
<i>Tribonanthes longipetala</i>	
<i>Tricoryne elatior</i>	
<i>Tricoryne tenella</i>	
* <i>Trifolium arvense</i>	
* <i>Trifolium campestre</i> var. <i>campestre</i>	
* <i>Trifolium cernuum</i>	
* <i>Trifolium dubium</i>	
* <i>Trifolium</i> sp.	
<i>Triglochin centrocarpa</i>	
<i>Triglochin huegelii</i> / <i>linearis</i>	
<i>Triglochin linearis</i>	
<i>Triglochin muelleri</i>	
<i>Triglochin</i> sp.	
<i>Triglochin trichophora</i>	
<i>Tripterococcus brunonis</i>	
<i>Tritilaria bibracteata</i>	
<i>Trymalium floribundum</i>	
* <i>Typha orientalis</i>	
* <i>Ursinia anthemoides</i>	
<i>Utricularia multifida</i>	
<i>Utricularia violacea</i>	
<i>Velleia trinervis</i>	
* <i>Vellereophyton dealbatum</i>	
<i>Verreauxia reinwardtii</i>	
<i>Vericordia densiflora</i>	
<i>Vericordia densiflora</i> var. <i>densiflora</i>	
M001	+
M002	+
M003	+
M004	
M005	+
M006	+
M007	+
M008	
M009	+
M010	+
M011	
M012	
M013	+
M014	+
M015	+
M016	+
M017	
M018	+
M019	+
M020	
M021	+
M022	+
M023	+
M024	+
M025	+
M026	+
M027	+
M028	+
M029	+
M030	+
M031	+
M032	+
M033	+
M034	+
M035	+
M036	+
M037	+
M038	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND-STAGE 1

Species	Quadrats
<i>Verticordia nitens</i>	
<i>Verticordia ovalifolia</i>	
<i>Verticordia plumosa</i>	
<i>Villarsia capitata</i>	
* <i>Vulpia bromoides</i>	
* <i>Vulpia myuros</i>	
* <i>Vulpia</i> sp.	
* <i>Wahlenbergia capensis</i>	
<i>Wahlenbergia preissii</i>	
<i>Waitzia</i> sp.	
<i>Waitzia suaveolens</i> var. <i>suaveolens</i>	
<i>Westringia dampieri</i>	
<i>Wurmbea dioica</i>	
<i>Wurmbea monantha</i>	
<i>Wurmbea pygmaea</i>	
<i>Wurmbea</i> sp.	
<i>Xanthorrhoea gracilis</i>	
<i>Xanthorrhoea preissii</i>	
<i>Xanthosia ciliata</i>	
<i>Xanthosia huegelii</i>	
* <i>Zantedeschia aethiopica</i>	
M001	+
M002	
M003	+
M004	+
M005	+
M006	+
M007	+
M008	+
M009	+
M010	+ +
M011	+
M012	
M013	+
M014	+
M015	+
M016	+
M017	+
M018	+
M019	+
M020	+
M021	+
M022	+
M023	+
M024	+
M025	+
M026	+
M027	+
M028	+
M029	+
M030	+
M031	+
M032	+
M033	+
M034	+
M035	+
M036	+
M037	+
M038	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Acacia alata</i> var. <i>tetrantha</i>	
<i>Acacia barbinervis</i> subsp. <i>borealis</i>	
<i>Acacia benthamii</i> (P2)	
<i>Acacia cochlearis</i>	
<i>Acacia cyclops</i>	
<i>Acacia huegelii</i>	
<i>Acacia lasiocarpa</i>	
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	
<i>Acacia pulchella</i>	
<i>Acacia pulchella</i> var. <i>glaberrima</i>	
<i>Acacia rostellifera</i>	
<i>Acacia saligna</i>	
<i>Acacia sessilis</i>	
<i>Acacia</i> sp.	
<i>Acacia stenoptera</i>	
<i>Acacia truncata</i>	
<i>Acacia xanthina</i>	
<i>Acanthocarpus preissii</i>	
<i>Adenanthos barbiger</i>	
<i>Adenanthos cygnorum</i>	
<i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i>	
<i>Adenanthos obovatus</i>	
<i>Adenanthos</i> sp.	
<i>Agonis flexuosa</i>	
<i>Agonis linearifolia</i>	
<i>Agrostis avenacea</i>	
* <i>Aira caryophylla</i>	
<i>Aira</i> sp.	
<i>Alexgeorgea nitens</i>	
M039	
M040	+
M041	+
M042	
M043	+
M044	+
M045	
M046	+
M047	+
M048	+
M049	
M050	+
M051	
M052	+
M053	+
M054	+
M055	
M056	+
M057	+
M058	+
M059	+
M060	+
M061	
M062	+
M063	+
M064	+
M065	+
M066	
M067	
M068	+
M069	+
M070	
M071	
M072	+
M073	+
M074	+
M075	
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Allocasuarina fraseriana</i>	
<i>Allocasuarina humilis</i>	
<i>Alyogyne huegelii</i>	
<i>Amperea ericoides</i>	
<i>Amphibromus nervosus</i>	
<i>Amphipogon ? amphipogonoides</i>	
<i>Amphipogon ? strictus</i>	
<i>Amphipogon laguroides</i>	
<i>Amphipogon</i> sp.	
<i>Amphipogon turbinatus</i>	
* <i>Anagallis arvensis</i>	
<i>Anarthria gracilis</i>	
<i>Andersonia heterophylla</i>	
<i>Andersonia lehmanniana</i>	
<i>Andersonia lehmanniana</i> subsp. <i>lehmanniana</i>	
<i>Anigozanthos humilis</i>	
<i>Anigozanthos</i> sp.	
<i>Aotus gracillima</i>	
<i>Aotus procumbens</i>	
<i>Aphelia mutans</i>	
* <i>Arctotheca calendula</i>	
<i>Arnocrinum preissii</i>	
<i>Asteraea fascicularis</i>	
<i>Asteraceae</i> sp.	
<i>Asteridea pulverulenta</i>	
<i>Astroloma microcaryx</i>	
<i>Astroloma pallidum</i>	
<i>Astroloma xerophyllum</i>	
M039	+
M040	+
M041	
M042	
M043	+
M044	
M045	+
M046	
M047	
M048	
M049	
M050	+
M051	+
M052	
M053	
M054	
M055	+
M056	+
M057	+
M058	
M059	+
M060	+
M061	+
M062	
M063	+
M064	
M065	+
M066	+
M067	+
M068	
M069	
M070	+
M071	
M072	
M073	
M074	+
M075	+
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
* <i>Atriplex prostrata</i>	
<i>Austrodanthonia occidentalis</i>	
<i>Austrodanthonia ?occidentalis</i>	
<i>Austrodanthonia</i> sp.	
<i>Austrostipa</i> sp.	
<i>Austrostipa ?macalpinei</i>	
<i>Austrostipa compressa</i>	
<i>Austrostipa flavescens</i>	
<i>Austrostipa macalpinei</i>	
<i>Austrostipa</i> sp.	
* <i>Avellinia michelii</i>	
<i>Azolla filiculoides</i>	
<i>Baeckea camphorosmae</i>	
<i>Baeckea robusta</i>	
<i>Baeckea</i> sp.	
<i>Banksia attenuata</i>	
<i>Banksia grandis</i>	
<i>Banksia ilicifolia</i>	
<i>Banksia littoralis</i>	
<i>Banksia menziesii</i>	
<i>Banksia prionotes</i>	
<i>Baumea juncea</i>	
<i>Baumea vaginalis</i>	
<i>Beaufortia elegans</i>	
<i>Beyeria cinerea</i>	
<i>Blennopora</i> sp.	
<i>Boronia purdieana</i>	
<i>Boronia purdieana</i> subsp. <i>purdieana</i>	
<i>Boronia ramosa</i>	
M039	+
M040	+
M041	
M042	+
M043	
M044	+
M045	+
M046	+
M047	+
M048	+
M049	+
M050	+
M051	
M052	+
M053	+
M054	
M055	+
M056	
M057	+
M058	+
M059	+
M060	+
M061	+
M062	+
M063	+
M064	+
M065	+
M066	
M067	+
M068	+
M069	+
M070	
M071	+
M072	+
M073	+
M074	+
M075	+
M076	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	
<i>Boronia ramosa</i> subsp. <i>ramosa</i>	
<i>Borya sphaerocephala</i>	
<i>Bossiaea eriocarpa</i>	
<i>Brachyscome iberidifolia</i>	
<i>Brachyscome</i> sp.	
<i>Brassica</i> sp.	
* <i>Briza maxima</i>	
* <i>Briza minor</i>	
* <i>Briza</i> sp.	
* <i>Bromus dianthus</i>	
* <i>Bromus rubens</i>	
* <i>Bromus</i> sp.	
? <i>Bromus</i> sp.	
<i>Burchardia bairdiae</i>	
<i>Burchardia umbellata</i>	
<i>Caesia</i> sp.	
<i>Caladenia flava</i> subsp. <i>flava</i>	
<i>Caladenia latifolia</i>	
<i>Caladenia marginata</i>	
<i>Caladenia paludosa</i>	
<i>Caladenia</i> sp.	
<i>Calandrinia brevipedata</i>	
<i>Calandrinia corrigioloides</i>	
<i>Calandrinia granulifera</i>	
<i>Calandrinia limiflora</i>	
<i>Calandrinia</i> sp.	
<i>Calectasia cyanea</i> (P2)	
<i>Calothamnus lateralis</i>	
M039	+
M040	+
M041	+
M042	+
M043	
M044	+
M045	+
M046	+
M047	
M048	+
M049	
M050	+
M051	+
M052	+
M053	+
M054	
M055	+
M056	+
M057	+
M058	
M059	+
M060	
M061	+
M062	+
M063	
M064	
M065	+
M066	+
M067	+
M068	+
M069	+
M070	+
M071	+
M072	+
M073	+
M074	+
M075	
M076	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Calothamnus quadrifidus</i>	
<i>Calothamnus sanguineus</i>	
<i>Calytrix angulata</i>	
<i>Calytrix flavescens</i>	
<i>Calytrix fraseri</i>	
<i>Calytrix sapphirina</i>	
<i>Calytrix strigosa</i>	
* <i>Carpobrotus edulis</i>	
<i>Carpobrotus virescens</i>	
<i>Caryophyllaceae</i> sp.	
<i>Cassyltha flava</i>	
<i>Cassyltha glabella</i>	
<i>Cassyltha pomiformis</i>	
<i>Cassyltha racemosa</i>	
<i>Cassyltha</i> sp.	
<i>Casuarina obesa</i>	
<i>Caustis dioica</i>	
* <i>Centaurium erythraea</i>	
<i>Centrolepis aristata</i>	
<i>Centrolepis drummondiana</i>	
<i>Centrolepis mutica</i>	
<i>Centrolepis polygyna</i>	
* <i>Cerastium glomeratum</i>	
<i>Chamaescilla corymbosa</i>	
* <i>Chenopodium macrospermum</i>	
<i>Chordifex microcodon</i>	
<i>Chorizandra enodis</i>	
* <i>Cicendia filiformis</i>	
<i>Comesperma calymega</i>	
M039	+
M040	+
M041	+
M042	+
M043	+
M044	+
M045	+
M046	+
M047	
M048	+
M049	+
M050	+
M051	
M052	+
M053	+
M054	
M055	+
M056	
M057	+
M058	
M059	+
M060	
M061	+
M062	+
M063	
M064	+
M065	+
M066	
M067	+
M068	
M069	+
M070	
M071	+
M072	+
M073	+
M074	+
M075	
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Comesperma confertum</i>	
<i>Comesperma integerrimum</i>	
<i>Comesperma</i> sp.	
<i>Conospermum acerosum</i> subsp. <i>acerosum</i>	
<i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i>	
<i>Conospermum incurvum</i>	
<i>Conospermum stoechadis</i> subsp. <i>stoechadis</i>	
<i>Conospermum triplinervium</i>	
<i>Conostephium pendulum</i>	
<i>Conostephium minus</i> (P4)	
<i>Conostephium pendulum</i>	
<i>Conostephium preissii</i>	
<i>Conostylis aculeata</i>	
<i>Conostylis aurea</i>	
<i>Conostylis candicans</i> subsp. <i>candicans</i>	
<i>Conostylis juncea</i>	
<i>Conostylis pauciflora</i>	
<i>Conostylis pauciflora</i> subsp. <i>euryrhypis</i> (P3)	
<i>Conostylis serrulata</i>	
<i>Conostylis setigera</i> subsp. <i>setigera</i>	
<i>Conostylis setosa</i>	
<i>Conostylis</i> sp.	
* <i>Coryza albida</i>	
<i>Coryza</i> sp.	
<i>Corymbia calophylla</i>	
<i>Corynotheca micrantha</i>	
<i>Cotula coronopifolia</i>	
<i>Crassula colorata</i>	
<i>Crassula colorata</i> var. <i>acuminata</i>	
M039	+
M040	+
M041	+
M042	+
M043	+
M044	+
M045	+
M046	+
M047	+
M048	+
M049	+
M050	+
M051	+
M052	+
M053	
M054	+
M055	+
M056	+
M057	+
M058	
M059	+
M060	
M061	+
M062	+
M063	
M064	
M065	+
M066	
M067	+
M068	+
M069	+
M070	
M071	+
M072	+
M073	
M074	
M075	
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Crassula ?colorata</i>	
<i>Crassula exserta</i>	
* <i>Crassula glomerata</i>	
* <i>Crassula natans</i>	
<i>Crassula</i> sp.	
<i>Cristonia biloba</i>	
<i>Croninia kingiana</i>	
<i>Cryptandra mutila</i>	
<i>Cryptandra pungens</i>	
<i>Cyanicula deformis</i>	
<i>Cyathochaeta avenacea</i>	
* <i>Cyperus tenellus</i>	
<i>Cyrtostylis robusta</i>	
<i>Cyrtostylis</i> sp.	
<i>Dampiera linearis</i>	
<i>Dampiera</i> sp.	
<i>Dasyopogon bromeliifolius</i>	
<i>Dasyopogon</i> sp.	
<i>Daucus glochidiatatus</i>	
<i>Daviesia decurrens</i>	
<i>Daviesia decurrens</i> subsp. <i>decurrens</i> (ms)	
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> (ms)	
<i>Daviesia nudiflora</i>	
<i>Daviesia physodes</i>	
<i>Daviesia podophylla</i>	
<i>Daviesia quadrilatera</i>	
<i>Desmodcladus fasciculatus</i>	
<i>Desmodcladus flexuosus</i>	
<i>Dianella revoluta</i>	
M039	
M040	+
M041	+
M042	+
M043	+
M044	+
M045	+
M046	+
M047	
M048	+
M049	+
M050	+
M051	+
M052	+
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M061	+
M062	+
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M064	+
M065	+
M066	
M067	+
M068	+
M069	+
M070	+
M071	+
M072	+
M073	+
M074	
M075	+
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Dichelachne crinita</i>	
<i>Dichopogon capillipes</i>	
<i>Dielsia stenostachya</i>	
<i>Dillwynia dillwynioides</i>	
<i>Diplolaena angustifolia</i>	
<i>Diplopeltis huegelii</i>	
<i>Disa bracteata</i>	
* <i>Dischisma arenarium</i>	
<i>Dischisma</i> sp.	
<i>Diuris longifolia</i>	
<i>Diuris</i> sp.	
<i>Drosera erythrorhiza</i>	
<i>Drosera gigantea</i> subsp. <i>gigantea</i>	
<i>Drosera glanduligera</i>	
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	
<i>Drosera menziesii</i>	
<i>Drosera menziesii</i> subsp. <i>penicillaris</i>	
<i>Drosera menziesii</i> subsp. <i>menziesii</i>	
<i>Drosera neesii</i>	
<i>Drosera nitidula</i>	
<i>Drosera paleacea</i>	
<i>Drosera pallida</i>	
<i>Drosera rosulata</i>	
<i>Drosera</i> sp.	
<i>Drosera</i> sp. climbing	
<i>Dryandra lindleyana</i>	
<i>Dryandra lindleyana</i> var. <i>lindleyana</i>	
<i>Dryandra nivea</i>	
<i>Dryandra sessilis</i>	
M039	+
M040	+
M041	
M042	+
M043	+
M044	+
M045	
M046	+
M047	+
M048	+
M049	+
M050	+
M051	+
M052	+
M053	
M054	
M055	+
M056	+
M057	+
M058	
M059	
M060	
M061	+
M062	+
M063	
M064	+
M065	+
M066	
M067	+
M068	+
M069	+
M070	+
M071	+
M072	+
M073	+
M074	+
M075	
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Ecdetocolea monostachya</i>	
* <i>Ehrharta calycina</i>	
* <i>Ehrharta longiflora</i>	
<i>Ehrharta</i> sp.	
<i>Eleocharis acuta</i>	
<i>Eleocharis</i> sp.	
<i>Elythranthera brunonis</i>	
<i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i>	
<i>Eremaea beaufortioides</i>	
<i>Eremaea brevifolia</i>	
<i>Eremaea pauciflora</i>	
<i>Eremaea pauciflora</i> var. <i>pauciflora</i>	
<i>Eremaea</i> sp.	
<i>Eremophila glabra</i>	
<i>Eriochilus dilatatus</i>	
* <i>Erodium botrys</i>	
* <i>Erodium cicutarium</i>	
* <i>Erodium moschatum</i>	
<i>Eryngium pinnatifidum</i> subsp. <i>palustre</i> (ms)	
<i>Eucalyptus decipiens</i>	
<i>Eucalyptus decipiens</i> subsp. <i>decipiens</i>	
<i>Eucalyptus foecunda</i>	
<i>Eucalyptus gomphocephala</i>	
<i>Eucalyptus marginata</i>	
<i>Eucalyptus petrensis</i>	
<i>Eucalyptus rudis</i>	
<i>Eucalyptus todiana</i>	
<i>Eucalyptus gomphocephala</i>	
<i>Euchilopsis linearis</i>	
M039	
M040	
M041	+
M042	+
M043	
M044	
M045	+
M046	
M047	
M048	
M049	
M050	
M051	
M052	
M053	
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M075	
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Euchiton sphaericus</i>	
* <i>Euphorbia terracina</i>	
<i>Exocarpos sparteus</i>	
? <i>Gahnia</i> sp.	
* <i>Galium murale</i>	
<i>Geranium retrorsum</i>	
<i>Geranium solanderi</i>	
* <i>Gladiolus caryophyllaceus</i>	
<i>Gladiolus</i> sp.	
<i>Glossostigma diandrum</i>	
<i>Gnephosis tenuissima</i>	
<i>Gompholobium capitatum</i>	
<i>Gompholobium confertum</i>	
<i>Gompholobium knightianum</i>	
<i>Gompholobium scabrum</i>	
<i>Gompholobium shuttleworthii</i>	
<i>Gompholobium</i> sp.	
<i>Gompholobium tomentosum</i>	
<i>Gonocarpus ?pithyoides</i>	
<i>Gonocarpus cordiger</i>	
<i>Gonocarpus pithyoides</i>	
<i>Gonocarpus</i> sp.	
<i>Goodenia micrantha</i>	
<i>Gratiola pubescens</i>	
<i>Grevillea preissii</i>	
<i>Grevillea preissii</i> subsp. <i>preissii</i>	
<i>Grevillea vestita</i>	
<i>Grevillea vestita</i> subsp. <i>vestita</i>	
<i>Haemodorum laxum</i>	
M039	
M040	
M041	
M042	
M043	
M044	
M045	
M046	
M047	
M048	
M049	
M050	
M051	
M052	
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M065	
M066	
M067	
M068	
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M070	
M071	
M072	
M073	
M074	
M075	
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Haemodorum paniculatum</i>	
<i>Haemodorum simplex</i>	
<i>Haemodorum</i> sp.	
<i>Haemodorum spicatum</i>	
<i>Hakea costata</i>	
<i>Hakea erinacea</i>	
<i>Hakea lissocarpa</i>	
<i>Hakea prostrata</i>	
<i>Hakea ruscifolia</i>	
<i>Hakea trifurcata</i>	
<i>Hakea varia</i>	
<i>Hardenbergia comptoniana</i>	
* <i>Heliphila pusilla</i>	
<i>Heliotropium curassavicum</i>	
<i>Hemandra pungens</i>	
<i>Hemigenia ? incana</i>	
<i>Hensmania turbinata</i>	
<i>Hibbertia</i> aff. <i>pachyrrhiza</i>	
<i>Hibbertia aurea</i>	
<i>Hibbertia crassifolia</i>	
<i>Hibbertia</i> aff. <i>helianthemoides</i>	
<i>Hibbertia huegelii</i>	
<i>Hibbertia hypericoides</i>	
<i>Hibbertia pachyrrhiza</i>	
<i>Hibbertia racemosa</i>	
<i>Hibbertia</i> sp.	
<i>Hibbertia spicata</i>	
<i>Hibbertia spicata</i> subsp. <i>leptotheca</i>	
<i>Hibbertia stellaris</i>	
M039	+
M040	+
M041	+
M042	+
M043	+
M044	+
M045	+
M046	+
M047	+
M048	+
M049	+
M050	+
M051	+
M052	+
M053	
M054	
M055	+
M056	+
M057	
M058	
M059	+
M060	
M061	+
M062	+
M063	+
M064	
M065	
M066	
M067	+
M068	
M069	+
M070	+
M071	
M072	
M073	
M074	
M075	+
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Hibbertia subvaginata</i>	
* <i>Holcus setiger</i>	
<i>Homaloscladium homalocarpum</i>	
<i>Hovea pungens</i>	
<i>Hovea trisperma</i>	
<i>Hyalosperma cotula</i>	
<i>Hybanthus calycinus</i>	
<i>Hydrocotyle alata</i>	
<i>Hydrocotyle blepharocarpa</i>	
<i>Hydrocotyle callicarpa</i>	
<i>Hydrocotyle hispidula</i>	
<i>Hydrocotyle pilifera</i> subsp. <i>glabrata</i>	
<i>Hydrocotyle</i> sp.	
<i>Hydrocotyle tetragonocarpa</i>	
<i>Hypocalymma angustifolium</i>	
<i>Hypocalymma xanthopetalum</i>	
* <i>Hypochoeris glabra</i>	
<i>Hypochoeris</i> sp.	
<i>Hypolaena exsulca</i>	
<i>Hypolaena pubescens</i>	
<i>Isolepis cernua</i>	
<i>Isolepis producta</i>	
* <i>Isolepis marginata</i>	
<i>Isolepis nodosa</i>	
<i>Isotoma hypocrateriformis</i>	
<i>Isotropis cuneifolia</i>	
<i>Isotropis</i> sp.	
<i>Jacksonia calcicola</i> (ms)	
<i>Jacksonia fasciculata</i>	
M039	+
M040	+
M041	+
M042	+
M043	+
M044	+
M045	+
M046	+
M047	+
M048	+
M049	+
M050	+
M051	+
M052	+
M053	+
M054	+
M055	+
M056	+
M057	+
M058	+
M059	+
M060	+
M061	+
M062	+
M063	+
M064	+
M065	+
M066	
M067	+
M068	+
M069	+
M070	+
M071	+
M072	+
M073	+
M074	+
M075	+
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Jacksonia floribunda</i>	
<i>Jacksonia furcellata</i>	
<i>Jacksonia hakeoides</i>	
<i>Jacksonia sericea</i> (P3)	
<i>Jacksonia sternbergiana</i>	
* <i>Juncus capitatus</i>	
<i>Juncus</i> sp.	
<i>Kennedia prostrata</i>	
<i>Kennedia</i> sp.	
<i>Kunzea ericifolia</i>	
<i>Kunzea ericifolia</i> subsp. <i>ericifolia</i>	
<i>Kunzea recurva</i>	
<i>Lagenophora huegelii</i>	
<i>Latrobea tenella</i> var. <i>tenella</i>	
<i>Laxmannia ramosa</i>	
<i>Laxmannia sessiliflora</i>	
<i>Laxmannia</i> sp.	
<i>Laxmannia squarrosa</i>	
<i>Lechenaultia biloba</i>	
<i>Lechenaultia expansa</i>	
<i>Lechenaultia floribunda</i>	
<i>Lechenaultia linarioides</i>	
<i>Lenina disperma</i>	
<i>Lepidium rotundum</i>	
<i>Lepidobolus chaetocephalus</i>	
<i>Lepidobolus preissianus</i>	
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	
<i>Lepidobolus</i> sp.	
<i>Lepidosperma</i> aff. <i>leptostachyum</i>	
M039	+
M040	+
M041	+
M042	+
M043	
M044	+
M045	+
M046	+
M047	+
M048	
M049	+
M050	+
M051	+
M052	+
M053	+
M054	+
M055	+
M056	+
M057	+
M058	+
M059	
M060	
M061	
M062	+
M063	+
M064	+
M065	+
M066	+
M067	+
M068	+
M069	
M070	
M071	
M072	
M073	+
M074	+
M075	+
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Lepidosperma gladiatum</i>	
<i>Lepidosperma longitudinale</i>	
<i>Lepidosperma pubisquamum</i>	
<i>Lepidosperma</i> sp.	
<i>Lepidosperma squamatum</i>	
<i>Lepidosperma tenue</i>	
<i>Leporella fimbriata</i>	
<i>Leptomeria cunninghamii</i>	
<i>Leptomeria empetriformis</i>	
<i>Leptomeria pauciflora</i>	
<i>Leptorhynchus scaber</i>	
<i>Leptospermum spinescens</i>	
<i>Leucopogon ?sprengeliioides</i>	
<i>Leucopogon conostephioides</i>	
<i>Leucopogon leptanthus</i>	
<i>Leucopogon oxycedrus</i>	
<i>Leucopogon parviflorus</i>	
<i>Leucopogon polymorphus</i>	
<i>Leucopogon propinquus</i>	
<i>Leucopogon racemosus</i>	
<i>Leucopogon</i> sp.	
<i>Leucopogon</i> sp. (indeterminant) M137-1	
<i>Leucopogon sprengeliioides</i>	
<i>Leucopogon squarrosus</i>	
<i>Levenhookia pusilla</i>	
<i>Levenhookia</i> sp.	
<i>Levenhookia stipitata</i>	
<i>Lobelia alata</i>	
<i>Lobelia heterophylla</i>	
M039	+
M040	+
M041	
M042	+
M043	
M044	
M045	+
M046	+
M047	
M048	+
M049	+
M050	+
M051	+
M052	
M053	+
M054	+
M055	+
M056	+
M057	+
M058	
M059	+
M060	
M061	+
M062	
M063	+
M064	+
M065	
M066	+
M067	
M068	+
M069	
M070	
M071	
M072	+
M073	+
M074	+
M075	
M076	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Lobelia</i> sp.	
<i>Lobelia tenuior</i>	
* <i>Lolium multiflorum</i> x <i>perenne</i>	
* <i>Lolium rigidum</i>	
<i>Lomandra</i> ? <i>britannii</i>	
<i>Lomandra caespitosa</i>	
<i>Lomandra</i> ? <i>caespitosa</i>	
<i>Lomandra hermaphrodita</i>	
<i>Lomandra</i> ? <i>hermaphrodita</i>	
<i>Lomandra maritima</i>	
<i>Lomandra micrantha</i>	
<i>Lomandra nigricans</i>	
<i>Lomandra preissii</i>	
<i>Lomandra sericea</i>	
<i>Lomandra sonderi</i>	
<i>Lomandra</i> ? <i>sonderi</i>	
<i>Lomandra</i> sp.	
<i>Lomandra suaveolens</i>	
* <i>Lotus angustissimus</i>	
* <i>Lotus suaveolens</i>	
<i>Loxocarya cinerea</i>	
<i>Lyginia barbata</i>	
<i>Lyperanthus serratus</i>	
<i>Lysinema ciliatum</i>	
<i>Lysinema elegans</i>	
<i>Macarthuria apetala</i>	
<i>Macrozamia riedlei</i>	
<i>Meeboldina cana</i>	
<i>Melaleuca cardiophylla</i>	
M039	+
M040	+
M041	
M042	+
M043	
M044	+
M045	
M046	+
M047	+
M048	+
M049	+
M050	+
M051	
M052	+
M053	+
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M055	+
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M057	
M058	
M059	
M060	
M061	
M062	+
M063	
M064	+
M065	+
M066	
M067	+
M068	+
M069	+
M070	
M071	
M072	+
M073	
M074	+
M075	
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Nemcia capitata</i>	M039 +
<i>Nemcia reticulata</i>	
<i>Notodanthonia</i> sp.	
<i>Nuyisia floribunda</i>	M049 +
<i>Olaix benthamiana</i>	M048 +
<i>Olearia axillaris</i>	M047 +
<i>Olearia rudis</i>	
<i>Oligochaetochilus vittata</i>	
<i>Opercularia echinocephala</i>	
<i>Opercularia</i> sp.	
<i>Opercularia spermacocea</i>	
<i>Opercularia vaginata</i>	
* <i>Orobanche minor</i>	
Orchidaceae sp.	
<i>Orthrosanthus laxus</i>	
<i>Oxalis perennans</i>	
? <i>Oxalis corniculata</i>	
<i>Ozothamnus cordatus</i>	
* <i>Parentucellia latifolia</i>	
<i>Parietaria debilis</i>	
<i>Patersonia occidentalis</i>	M040 +
<i>Patersonia</i> sp.	M039 +
* <i>Pelargonium capitatum</i>	
<i>Pelargonium littorale</i>	
* <i>Pentaschistis airoides</i>	
<i>Pericalymma ellipticum</i>	
<i>Pericalymma ellipticum</i> var. <i>ellipticum</i>	
<i>Persoonia comata</i>	
<i>Petrophile brevifolia</i>	
	M041 +
	M042 +
	M043 +
	M044 +
	M045 +
	M046 +
	M047 +
	M048 +
	M049 +
	M050 +
	M051 +
	M052 +
	M053 +
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	M056 +
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	M058 +
	M059 +
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	M061 +
	M062 +
	M063 +
	M064
	M065
	M066
	M067 +
	M068 +
	M069 +
	M070 +
	M071 +
	M072 +
	M073 +
	M074
	M075 +
	M076

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Petrophile drummondii</i>	
<i>Petrophile linearis</i>	
<i>Petrophile macrostachya</i>	
<i>Petrophile seminuda</i>	
<i>Petrophile serruriae</i>	
<i>Petrophile</i> sp.	
* <i>Petrophagia dubia</i>	
* <i>Phalaris minor</i>	
<i>Philothea spicata</i>	
<i>Philydrella pygmaea</i>	
<i>Phlebocarya ciliata</i>	
<i>Phyllangium paradoxum</i>	
<i>Phyllanthus calycinus</i>	
<i>Phylloglossum drummondii</i>	
<i>Pimelea calcicola</i>	
<i>Pimelea ferruginea</i>	
<i>Pimelea floribunda</i>	
<i>Pimelea rosea</i>	
<i>Pimelea</i> sp.	
<i>Pimelea suaveolens</i>	
<i>Pimelea sulphurea</i>	
* <i>Pinus radiata</i>	
<i>Pithecarpa corymbulosa</i> (P2)	
<i>Pithecarpa</i> sp.	
<i>Platytheca galioides</i>	
* <i>Poa annua</i>	
<i>Poa drummondiana</i>	
<i>Poa poliformis</i>	
* <i>Poa pratensis</i>	
M039	+
M040	+
M041	+
M042	+
M043	+
M044	+
M045	+
M046	
M047	+
M048	+
M049	+
M050	+
M051	+
M052	+
M053	+
M054	
M055	+
M056	+
M057	+
M058	
M059	+
M060	+
M061	+
M062	+
M063	
M064	+
M065	+
M066	
M067	+
M068	
M069	+
M070	
M071	+
M072	+
M073	+
M074	+
M075	
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

D44.

Species	Quadrats
<i>Poaceae</i> sp.	
<i>Podolepis gracilis</i>	
<i>Podolepis lessonii</i>	
<i>Podotrochea ?chrysantha</i>	
<i>Podotrochea angustifolia</i>	
<i>Podotrochea angustifolia/gnaphalioides?</i>	
<i>Podotrochea chrysantha</i>	
<i>Podotrochea gnaphalioides</i>	
<i>Podotrochea</i> sp.	
<i>Pogonolepis stricta</i>	
* <i>Polyogon monspeliensis</i>	
<i>Poranthera ericoides</i>	
<i>Poranthera microphylla</i>	
<i>Prasophyllum drummondii</i>	
<i>Prasophyllum</i> sp.	
<i>Pteridium esculentum</i>	
<i>Pterostylis ?brevisepala</i> (ms)	
<i>Pterostylis</i> aff. <i>nana</i> SCP GJK/NG 1867cbs	
<i>Pterostylis recurva</i>	
<i>Pterostylis sanguinea</i>	
<i>Pterostylis</i> sp.	
<i>Pterostylis</i> sp. short sepals (W. JacksonBJ 259) (FN)	
<i>Ptilotus drummondii</i>	
<i>Ptilotus drummondii</i> var. <i>drummondii</i>	
<i>Ptilotus humilis</i> subsp. <i>humilis</i>	
<i>Ptilotus manglesii</i>	
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>	
<i>Ptilotus</i> sp.	
? <i>Puccinellia</i> sp.	
M039	+
M040	+
M041	+
M042	+
M043	
M044	
M045	+
M046	+
M047	+
M048	
M049	
M050	+
M051	+
M052	+
M053	+
M054	+
M055	+
M056	+
M057	+
M058	+
M059	+
M060	+
M061	+
M062	+
M063	
M064	+
M065	
M066	+
M067	+
M068	+
M069	
M070	
M071	+
M072	+
M073	
M074	+
M075	+
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Pultenaea reticulata</i>	
<i>Pyrorchis nigricans</i>	
? <i>Pyrorchis nigricans</i>	
<i>Quinnetia urvillei</i>	
<i>Regelia ciliata</i>	
<i>Regelia ?ciliata</i>	
<i>Regelia inops</i>	
<i>Restio</i> sp.	
<i>Rhagodia baccata</i>	
<i>Rhagodia baccata</i> subsp. <i>baccata</i>	
<i>Rhodanthe citrina</i>	
<i>Rhodanthe corymbosa</i>	
<i>Rhodanthe</i> sp.	
* <i>Romulea obscura</i>	
<i>Romulea rosea</i>	
* <i>Rostraria cristata</i>	
* <i>Sagina apetala</i>	
<i>Santalum acuminatum</i>	
<i>Sarcocoma bicarinata</i> (P3)	
<i>Scaevola canescens</i>	
<i>Scaevola ?canescens</i>	
<i>Scaevola crassifolia</i>	
<i>Scaevola crassifolia/nitida</i>	
<i>Scaevola nitida</i>	
<i>Scaevola paludosa</i>	
<i>Scaevola repens</i>	
<i>Scaevola repens</i> var. <i>angustifolia</i>	
<i>Scaevola repens</i> var. <i>repens</i>	
<i>Scaevola</i> sp.	
M039	+
M040	+
M041	+
M042	+
M043	+
M044	+
M045	+
M046	+
M047	+
M048	+
M049	+
M050	+
M051	+
M052	+
M053	+
M054	+
M055	+
M056	+
M057	
M058	
M059	
M060	
M061	
M062	+
M063	+
M064	
M065	
M066	
M067	
M068	+
M069	+
M070	+
M071	+
M072	
M073	
M074	
M075	
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Scaevola thesioides</i>	
<i>Schoenolaena juncea</i>	
<i>Schoenus aff. brevisetis</i>	
<i>Schoenus asperocarpus</i>	
<i>Schoenus breviculmis</i>	
<i>Schoenus brevisetis</i>	
<i>Schoenus caespitius</i>	
<i>Schoenus ?caespitius</i>	
<i>Schoenus clandestinus</i>	
<i>Schoenus curvifolius</i>	
<i>Schoenus efoliatus</i>	
<i>Schoenus grandiflorus</i>	
<i>Schoenus lanatus</i>	
<i>Schoenus nanus</i>	
<i>Schoenus natans</i> (P4)	
<i>Schoenus odontocarpus</i>	
<i>Schoenus rigens</i>	
<i>Schoenus</i> sp.	
<i>Schoenus ?subfascicularis</i>	
<i>Scholtzia involucreta</i>	
<i>Scholtzia</i> sp.	
<i>Seiaginella gracillima</i>	
<i>Senecio lautus</i>	
<i>Senecio lautus</i> subsp. <i>maritimus</i>	
<i>Senecio lautus</i> subsp. <i>dissectifolius</i>	
<i>Senecio</i> sp.	
* <i>Silene gallica</i>	
<i>Siloxerus humifusus</i>	
* <i>Solanum americanum</i>	
M039	+
M040	
M041	
M042	
M043	+
M044	
M045	
M046	
M047	
M048	+
M049	
M050	
M051	
M052	+
M053	
M054	
M055	+
M056	
M057	
M058	+
M059	
M060	
M061	+
M062	+
M063	
M064	
M065	+
M066	
M067	
M068	
M069	
M070	+
M071	+
M072	
M073	
M074	
M075	
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
* <i>Solanum nigrum</i>	
* <i>Sonchus oleraceus</i>	
<i>Sowerbaea laxiflora</i>	
<i>Sphaerolobium</i> sp.	
<i>Sphaerolobium vimineum</i>	
<i>Spyridium globulosum</i>	
<i>Stachystemon axillaris</i> (P4)	
<i>Stackhousia monogyna</i>	
<i>Stackhousia</i> sp.	
* <i>Stellaria media</i>	
<i>Stenopetalum gracile</i>	
<i>Stirlingia latifolia</i>	
<i>Stylidium adpressum</i>	
<i>Stylidium amoenum</i>	
<i>Stylidium brunonianum</i> subsp. <i>brunonianum</i>	
<i>Stylidium bulbiferum</i>	
<i>Stylidium calcaratum</i>	
<i>Stylidium crossocephalum</i>	
<i>Stylidium diuroides</i> subsp. <i>diuroides</i>	
<i>Stylidium inundatum</i>	
<i>Stylidium junceum</i>	
<i>Stylidium lateriticola</i>	
<i>Stylidium longitubum</i> (P3)	
<i>Stylidium macrocarpum</i>	
<i>Stylidium maritimum</i>	
<i>Stylidium miniatum</i>	
<i>Stylidium petiolare</i>	
<i>Stylidium piliferum</i> subsp. <i>piliferum</i>	
<i>Stylidium repens</i>	
M039	
M040	+
M041	+
M042	+
M043	+
M044	+
M045	+
M046	+
M047	+
M048	+
M049	+
M050	+
M051	+
M052	+
M053	+
M054	+
M055	
M056	+
M057	+
M058	
M059	+
M060	
M061	+
M062	+
M063	
M064	+
M065	+
M066	+
M067	
M068	
M069	+
M070	
M071	+
M072	+
M073	+
M074	
M075	
M076	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Syldidium schoenoides</i>	
<i>Syldidium</i> sp.	
<i>Synaphea petiolaris</i>	
<i>Synaphea</i> sp.	
<i>Synaphea spinulosa</i>	
<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>	
<i>Templetonia retusa</i>	
<i>Tersonia cyathiflora</i>	
* <i>Tetragonia decumbens</i>	
<i>Tetragonia capillaris</i>	
<i>Tetragonia octandra</i>	
<i>Thelemitra antennifera</i>	
<i>Thelemitra campanulata</i>	
<i>Thelemitra crinita</i>	
<i>Thelemitra flexuosa</i>	
<i>Thelemitra</i> sp.	
<i>Thomasia triphylla</i>	
<i>Threlkedia diffusa</i>	
<i>Thysanotus arenarius</i>	
<i>Thysanotus dichotomus</i>	
<i>Thysanotus manglesianus</i>	
<i>Thysanotus manglesianus</i> (patersonii)	
<i>Thysanotus patersonii</i>	
<i>Thysanotus patersonii</i> / <i>manglesianus</i>	
<i>Thysanotus</i> sp.	
<i>Thysanotus spartea</i>	
<i>Thysanotus thyrsoides</i>	
<i>Thysanotus ?thyrsoides</i>	
<i>Thysanotus triandrus</i>	
M039	+
M040	
M041	
M042	+
M043	
M044	+
M045	+
M046	
M047	
M048	+
M049	
M050	
M051	
M052	+
M053	
M054	+
M055	
M056	
M057	
M058	
M059	
M060	
M061	
M062	
M063	
M064	
M065	
M066	
M067	+
M068	
M069	
M070	
M071	
M072	
M073	
M074	
M075	
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Trachymene coerulea</i>	M039 +
<i>Trachymene pilosa</i>	M040 +
<i>Tribonanthes australis</i>	M041 +
<i>Tribonanthes longipetala</i>	M042 +
<i>Tricoryne elatior</i>	M043 +
<i>Tricoryne tenella</i>	M044 +
* <i>Trifolium arvense</i>	M045 +
* <i>Trifolium campestre</i> var. <i>campestre</i>	M046 +
* <i>Trifolium cernuum</i>	M047 +
* <i>Trifolium dubium</i>	M048 +
* <i>Trifolium</i> sp.	M049 +
<i>Triglochin centrocarpa</i>	M050 +
<i>Triglochin huegelii/linearis</i>	M051 +
<i>Triglochin linearis</i>	M052 +
<i>Triglochin muelleri</i>	M053 +
<i>Triglochin</i> sp.	M054 +
<i>Triglochin trichophora</i>	M055 +
<i>Tripterococcus brunonis</i>	M056 +
<i>Trithuria bibracteata</i>	M057 +
<i>Trymalium floribundum</i>	M058 +
* <i>Typha orientalis</i>	M059 +
* <i>Ursinia anthemoides</i>	M060 +
<i>Utricularia multifida</i>	M061 +
<i>Utricularia violacea</i>	M062 +
<i>Velleia trinervis</i>	M063 +
* <i>Vellereophyton dealbatum</i>	M064 +
<i>Verreauxia reinwardtii</i>	M065 +
<i>Verticordia densiflora</i>	M066 +
<i>Verticordia densiflora</i> var. <i>densiflora</i>	M067 +
	M068 +
	M069 +
	M070 +
	M071 +
	M072 +
	M073 +
	M074 +
	M075 +
	M076 +

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Verticordia nitens</i>	
<i>Verticordia ovalifolia</i>	
<i>Verticordia plumosa</i>	
<i>Villarsia capitata</i>	
* <i>Vulpia bromoides</i>	
* <i>Vulpia myuros</i>	
* <i>Vulpia</i> sp.	
* <i>Wahlenbergia capensis</i>	
<i>Wahlenbergia preissii</i>	
<i>Waitzia</i> sp.	
<i>Waitzia suaveolens</i> var. <i>suaveolens</i>	
<i>Westringia dampieri</i>	
<i>Wurmbea dioica</i>	
<i>Wurmbea monantha</i>	
<i>Wurmbea pygmaea</i>	
<i>Wurmbea</i> sp.	
<i>Xanthorrhoea gracilis</i>	
<i>Xanthorrhoea preissii</i>	
<i>Xanthosia ciliata</i>	
<i>Xanthosia huegelii</i>	
* <i>Zantedeschia aethiopica</i>	
M039	+
M040	+
M041	
M042	
M043	+
M044	+
M045	+
M046	
M047	+
M048	+
M049	+
M050	+
M051	+
M052	+
M053	
M054	+
M055	+
M056	+
M057	+
M058	
M059	+
M060	+
M061	+
M062	+
M063	
M064	+
M065	+
M066	+
M067	
M068	+
M069	
M070	+
M071	+
M072	+
M073	+
M074	+
M075	+
M076	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Acacia alata</i> var. <i>tetrantha</i>	
<i>Acacia barbinervis</i> subsp. <i>borealis</i>	
<i>Acacia benthamii</i> (P2)	
<i>Acacia cochlearis</i>	
<i>Acacia cyclops</i>	
<i>Acacia huegelii</i>	
<i>Acacia lasiocarpa</i>	
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	
<i>Acacia pulchella</i>	
<i>Acacia pulchella</i> var. <i>glaberrima</i>	
<i>Acacia rostellifera</i>	
<i>Acacia saligna</i>	
<i>Acacia sessilis</i>	
<i>Acacia</i> sp.	
<i>Acacia stenoptera</i>	
<i>Acacia truncata</i>	
<i>Acacia xanthina</i>	
<i>Acanthocarpus preissii</i>	
<i>Adenanthos barbiger</i>	
<i>Adenanthos cygnorum</i>	
<i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i>	
<i>Adenanthos obovatus</i>	
<i>Adenanthos</i> sp.	
<i>Agonis flexuosa</i>	
<i>Agonis linearifolia</i>	
<i>Agrostis avenacea</i>	
* <i>Aira caryophyllea</i>	
<i>Aira</i> sp.	
<i>Alexgeorgea nitens</i>	
M077	+
M078	+
M079	
M080	
M081	
M082	+
M083	+
M084	
M085	+
M086	
M087	
M088	
M089	+
M090	+
M091	+
M092	+
M093	+
M094	+
M095	
M096	
M097	+
M098	+
M099	
M100	+
M101	
M102	+
M103	
M104	
M105	+
M106	+
M107	
M108	+
M109	
M110	
M111	+
M112	+
M113	+
M114	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Allocasuarina fraseriana</i>	
<i>Allocasuarina humilis</i>	
<i>Alyogyne huegelii</i>	
<i>Amperea ericoides</i>	
<i>Amphibromus nervosus</i>	
<i>Amphipogon ? amphipogonoides</i>	
<i>Amphipogon ? strictus</i>	
<i>Amphipogon laguroides</i>	
<i>Amphipogon</i> sp.	
<i>Amphipogon turbinatus</i>	
* <i>Anagallis arvensis</i>	
<i>Anarthria gracilis</i>	
<i>Andersonia heterophylla</i>	
<i>Andersonia lehmanniana</i>	
<i>Andersonia lehmanniana</i> subsp. <i>lehmanniana</i>	
<i>Anigozanthos humilis</i>	
<i>Anigozanthos</i> sp.	
<i>Aotus gracillima</i>	
<i>Aotus procumbens</i>	
<i>Aphelia nutans</i>	
* <i>Arctotheca calendula</i>	
<i>Arnocrinum preissii</i>	
<i>Astartea fascicularis</i>	
<i>Asteraceae</i> sp.	
<i>Asteridea puberulenta</i>	
<i>Astroloma microcalyx</i>	
<i>Astroloma pallidum</i>	
<i>Astroloma xerophyllum</i>	
M077	
M078	
M079	
M080	
M081	
M082	
M083	
M084	
M085	
M086	
M087	
M088	
M089	
M090	
M091	
M092	
M093	
M094	
M095	
M096	
M097	
M098	
M099	
M100	
M101	
M102	
M103	
M104	
M105	
M106	
M107	
M108	
M109	
M110	
M111	
M112	
M113	
M114	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	M077 +
<i>Boronia ramosa</i> subsp. <i>ramosa</i>	M078 +
<i>Borya sphaerocephala</i>	M079 +
<i>Bossiaea eriocarpa</i>	M080
<i>Brachyscome iberidifolia</i>	M081
<i>Brachyscome</i> sp.	M082
<i>Brassica</i> sp.	M083 +
* <i>Briza maxima</i>	M084 +
* <i>Briza minor</i>	M085 +
* <i>Briza</i> sp.	M086 +
* <i>Bromus diandrus</i>	M087 +
* <i>Bromus rubens</i>	M088 +
* <i>Bromus</i> sp.	M089 +
? <i>Bromus</i> sp.	M090 +
<i>Burchardia bairdiae</i>	M091 +
<i>Burchardia umbellata</i>	M092 +
<i>Caesia</i> sp.	M093 +
<i>Caladenia flava</i> subsp. <i>flava</i>	M094 +
<i>Caladenia latifolia</i>	M095
<i>Caladenia marginata</i>	M096 +
<i>Caladenia paludosa</i>	M097 +
<i>Caladenia</i> sp.	M098 +
<i>Calandrinia brevipedata</i>	M099
<i>Calandrinia corrigioloides</i>	M100 +
<i>Calandrinia granulifera</i>	M101 +
<i>Calandrinia liniflora</i>	M102 +
<i>Calandrinia</i> sp.	M103
<i>Calactasia cyanea</i> (P2)	M104 +
<i>Calothamnus lateralis</i>	M105 +
	M106 +
	M107 +
	M108 +
	M109 +
	M110
	M111 +
	M112 +
	M113 +
	M114

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Calothamnus quadrifidus</i>	
<i>Calothamnus sanguineus</i>	
<i>Calytrix angulata</i>	
<i>Calytrix flavescens</i>	
<i>Calytrix fraseri</i>	
<i>Calytrix sapphirina</i>	
<i>Calytrix strigosa</i>	
* <i>Carpobrotus edulis</i>	
<i>Carpobrotus virescens</i>	
<i>Caryophyllaceae</i> sp.	
<i>Cassylia flava</i>	
<i>Cassylia glabella</i>	
<i>Cassylia pomiformis</i>	
<i>Cassylia racemosa</i>	
<i>Cassylia</i> sp.	
<i>Casuarina obesa</i>	
<i>Cautis ditroica</i>	
* <i>Centaurium erythraea</i>	
<i>Centrolepis aristata</i>	
<i>Centrolepis drummondiana</i>	
<i>Centrolepis mutica</i>	
<i>Centrolepis polygyna</i>	
* <i>Cerastium glomeratum</i>	
<i>Chamaescilla corymbosa</i>	
* <i>Chenopodium macrospermum</i>	
<i>Chordifex microcodon</i>	
<i>Chorizandra enodis</i>	
* <i>Cicendia filiformis</i>	
<i>Comesperma calymega</i>	
M077	+
M078	+
M079	+
M080	+
M081	+
M082	
M083	
M084	+
M085	+
M086	+
M087	+
M088	
M089	+
M090	+
M091	+
M092	+
M093	
M094	+
M095	+
M096	+
M097	
M098	
M099	
M100	
M101	+
M102	+
M103	
M104	+
M105	
M106	+
M107	+
M108	+
M109	
M110	
M111	+
M112	+
M113	
M114	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Comesperma confertum</i>	
<i>Comesperma integerrimum</i>	
<i>Comesperma</i> sp.	
<i>Conospermum acerosum</i> subsp. <i>acerosum</i>	
<i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i>	
<i>Conospermum incurvum</i>	
<i>Conospermum stoechadis</i> subsp. <i>stoechadis</i>	
<i>Conospermum triplinervium</i>	
<i>Conostephium pendulum</i>	
<i>Conostephium minus</i> (P4)	
<i>Conostephium pendulum</i>	
<i>Conostephium preissii</i>	
<i>Conostylis aculeata</i>	
<i>Conostylis aurea</i>	
<i>Conostylis candicans</i> subsp. <i>candicans</i>	
<i>Conostylis juncea</i>	
<i>Conostylis pauciflora</i>	
<i>Conostylis pauciflora</i> subsp. <i>euryhipis</i> (P3)	
<i>Conostylis serrulata</i>	
<i>Conostylis setigera</i> subsp. <i>setigera</i>	
<i>Conostylis setosa</i>	
<i>Conostylis</i> sp.	
* <i>Coryza albida</i>	
<i>Coryza</i> sp.	
<i>Corymbia calophylla</i>	
<i>Corynotheca micrantha</i>	
<i>Cotula coronopifolia</i>	
<i>Crassula colorata</i>	
<i>Crassula colorata</i> var. <i>acuminata</i>	
M077	+
M078	+
M079	+
M080	
M081	
M082	
M083	+
M084	+
M085	+
M086	
M087	+
M088	+
M089	+
M090	
M091	+
M092	+
M093	+
M094	+
M095	
M096	+
M097	
M098	+
M099	
M100	
M101	+
M102	+
M103	+
M104	
M105	
M106	+
M107	+
M108	+
M109	
M110	
M111	+
M112	+
M113	
M114	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Crassula ?colorata</i>	
<i>Crassula exserta</i>	
* <i>Crassula glomerata</i>	
* <i>Crassula natans</i>	
<i>Crassula</i> sp.	
<i>Cristonia biloba</i>	
<i>Croninia kingiana</i>	
<i>Cryptandra mutila</i>	
<i>Cryptandra pungens</i>	
<i>Cyanicula deformis</i>	
<i>Cyathochaeta avenacea</i>	
* <i>Cyperus tenellus</i>	
<i>Cyrtostylis robusta</i>	
<i>Cyrtostylis</i> sp.	
<i>Dampiera linearis</i>	
<i>Dampiera</i> sp.	
<i>Dasyogon bromeliifolius</i>	
<i>Dasyogon</i> sp.	
<i>Daucus glochidiatus</i>	
<i>Daviesia decurrens</i>	
<i>Daviesia decurrens</i> subsp. <i>decurrens</i> (ms)	
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> (ms)	
<i>Daviesia nudiflora</i>	
<i>Daviesia physodes</i>	
<i>Daviesia podophylla</i>	
<i>Daviesia quadrilatera</i>	
<i>Desmodcladus fasciculatus</i>	
<i>Desmodcladus flexuosus</i>	
<i>Dianella revoluta</i>	
M077	
M078	+
M079	+
M080	
M081	+
M082	
M083	+
M084	+
M085	+
M086	+
M087	+
M088	
M089	+
M090	+
M091	+
M092	
M093	+
M094	
M095	
M096	+
M097	+
M098	+
M099	+
M100	+
M101	+
M102	+
M103	+
M104	
M105	+
M106	
M107	+
M108	+
M109	
M110	
M111	+
M112	+
M113	+
M114	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Dichelachne crinita</i>	
<i>Dichopogon capillipes</i>	
<i>Dielsia stenostachya</i>	
<i>Dillwynia dillwynioides</i>	
<i>Diplolaena angustifolia</i>	
<i>Diplopeltis huegelii</i>	
<i>Disa bracteata</i>	
* <i>Dischisma arenarium</i>	
<i>Dischisma</i> sp.	
<i>Diuris longifolia</i>	
<i>Diuris</i> sp.	
<i>Drosera erythrorhiza</i>	
<i>Drosera gigantea</i> subsp. <i>gigantea</i>	
<i>Drosera glanduligera</i>	
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	
<i>Drosera menziesii</i>	
<i>Drosera menziesii</i> subsp. <i>penicillaris</i>	
<i>Drosera menziesii</i> subsp. <i>menziesii</i>	
<i>Drosera neesii</i>	
<i>Drosera nitidula</i>	
<i>Drosera paleacea</i>	
<i>Drosera pallida</i>	
<i>Drosera rosulata</i>	
<i>Drosera</i> sp.	
<i>Drosera</i> sp. climbing	
<i>Dryandra lindleyana</i>	
<i>Dryandra lindleyana</i> var. <i>lindleyana</i>	
<i>Dryandra nivea</i>	
<i>Dryandra sessilis</i>	
M077	+
M078	+
M079	
M080	+
M081	
M082	
M083	+
M084	+
M085	+
M086	
M087	+
M088	
M089	+
M090	+
M091	+
M092	+
M093	+
M094	
M095	
M096	+
M097	
M098	+
M099	
M100	
M101	
M102	+
M103	
M104	
M105	+
M106	+
M107	+
M108	+
M109	
M110	
M111	+
M112	+
M113	+
M114	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Ecdiocola monostachya</i>	
* <i>Ehrharta calycina</i>	
* <i>Ehrharta longiflora</i>	
<i>Ehrharta</i> sp.	
<i>Eleocharis acuta</i>	
<i>Eleocharis</i> sp.	
<i>Elythraetheria brunonis</i>	
<i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i>	
<i>Eremaea beaufortioides</i>	
<i>Eremaea brevifolia</i>	
<i>Eremaea pauciflora</i>	
<i>Eremaea pauciflora</i> var. <i>pauciflora</i>	
<i>Eremaea</i> sp.	
<i>Eremophila glabra</i>	
<i>Eriochilus dilatatus</i>	
* <i>Erodium botrys</i>	
* <i>Erodium cicutarium</i>	
* <i>Erodium moschatum</i>	
<i>Eryngium pinnatifidum</i> subsp. <i>palustre</i> (ms)	
<i>Eucalyptus decipiens</i>	
<i>Eucalyptus decipiens</i> subsp. <i>decipiens</i>	
<i>Eucalyptus foecunda</i>	
<i>Eucalyptus gomphocephala</i>	
<i>Eucalyptus marginata</i>	
<i>Eucalyptus petrensis</i>	
<i>Eucalyptus rudis</i>	
<i>Eucalyptus todtiana</i>	
<i>Eucalyptus gomphocephala</i>	
<i>Euchilopsis linearis</i>	
M077	+
M078	+
M079	+
M080	
M081	
M082	+
M083	+
M084	+
M085	+
M086	
M087	+
M088	+
M089	+
M090	+
M091	+
M092	+
M093	+
M094	+
M095	
M096	+
M097	
M098	+
M099	
M100	+
M101	+
M102	+
M103	
M104	+
M105	
M106	+
M107	+
M108	+
M109	+
M110	
M111	
M112	+
M113	
M114	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Euchiton sphaericus</i>	
* <i>Euphorbia terracina</i>	
<i>Exocarpos sparteus</i>	
? <i>Gahnia</i> sp.	
* <i>Galium murale</i>	
<i>Geranium retrorsum</i>	
<i>Geranium solanderi</i>	
* <i>Gladiolus caryophyllaceus</i>	
<i>Gladiolus</i> sp.	
<i>Glossostigma diandrum</i>	
<i>Gnaphosis tenuissima</i>	
<i>Gompholobium capitatum</i>	
<i>Gompholobium confertum</i>	
<i>Gompholobium knightianum</i>	
<i>Gompholobium scabrum</i>	
<i>Gompholobium shuttleworthii</i>	
<i>Gompholobium</i> sp.	
<i>Gompholobium tomentosum</i>	
<i>Gonocarpus</i> ? <i>pithyoides</i>	
<i>Gonocarpus cordiger</i>	
<i>Gonocarpus pithyoides</i>	
<i>Gonocarpus</i> sp.	
<i>Goodenia micrantha</i>	
<i>Gratiola pubescens</i>	
<i>Grevillea preissii</i>	
<i>Grevillea preissii</i> subsp. <i>preissii</i>	
<i>Grevillea vestita</i>	
<i>Grevillea vestita</i> subsp. <i>vestita</i>	
<i>Haemodorum laxum</i>	
M077	+
M078	+
M079	
M080	
M081	
M082	
M083	
M084	+
M085	
M086	
M087	+
M088	
M089	+
M090	+
M091	
M092	+
M093	
M094	
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M096	+
M097	
M098	
M099	
M100	+
M101	+
M102	
M103	
M104	
M105	+
M106	
M107	
M108	+
M109	+
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M111	
M112	+
M113	
M114	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Haemodorum paniculatum</i>	
<i>Haemodorum simplex</i>	
<i>Haemodorum</i> sp.	
<i>Haemodorum spicatum</i>	
<i>Hakea costata</i>	
<i>Hakea erinacea</i>	
<i>Hakea lissocarpa</i>	
<i>Hakea prostrata</i>	
<i>Hakea ruscifolia</i>	
<i>Hakea trifurcata</i>	
<i>Hakea varia</i>	
<i>Hardenbergia comptoniana</i>	
* <i>Heliphila pusilla</i>	
<i>Heliotropium curassavicum</i>	
<i>Hemandra pungens</i>	
<i>Hemigenia ? incana</i>	
<i>Hensmania turbinata</i>	
<i>Hibbertia</i> aff. <i>pachyrrhiza</i>	
<i>Hibbertia aurea</i>	
<i>Hibbertia crassifolia</i>	
<i>Hibbertia</i> aff. <i>helianthemoides</i>	
<i>Hibbertia huegelii</i>	
<i>Hibbertia hypericoides</i>	
<i>Hibbertia pachyrrhiza</i>	
<i>Hibbertia racemosa</i>	
<i>Hibbertia</i> sp.	
<i>Hibbertia spicata</i>	
<i>Hibbertia spicata</i> subsp. <i>leptotheca</i>	
<i>Hibbertia stellaris</i>	
M077	+
M078	
M079	
M080	
M081	
M082	
M083	+
M084	
M085	+
M086	
M087	+
M088	+
M089	+
M090	
M091	
M092	
M093	
M094	
M095	+
M096	
M097	
M098	
M099	
M100	
M101	
M102	
M103	+
M104	
M105	+
M106	
M107	
M108	
M109	
M110	
M111	
M112	
M113	
M114	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Hibbertia subvaginata</i>	M077 +
* <i>Holcus setiger</i>	M078 +
<i>Homaloscladium homalocarpum</i>	
<i>Hovea pungens</i>	M095 +
<i>Hovea trisperma</i>	
<i>Hyalosperma cotula</i>	M084 +
<i>Hybanthus calycinus</i>	M097 +
<i>Hydrocotyle alata</i>	
<i>Hydrocotyle blepharocarpa</i>	
<i>Hydrocotyle callicarpa</i>	
<i>Hydrocotyle hispidula</i>	
<i>Hydrocotyle pilifera</i> subsp. <i>glabrata</i>	
<i>Hydrocotyle</i> sp.	
<i>Hydrocotyle tetragonocarpa</i>	M100 +
<i>Hypocalymma angustifolium</i>	M099 +
<i>Hypocalymma xanthopetalum</i>	M098 +
* <i>Hypochoeris glabra</i>	M097 +
<i>Hypochoeris</i> sp.	
<i>Hypolaena exsulca</i>	M099 +
<i>Hypolaena pubescens</i>	
<i>Isolepis cernua</i>	
<i>Isolepis producta</i>	
* <i>Isolepis marginata</i>	M082 3
<i>Isolepis nodosa</i>	
<i>Isotoma hypocrateriformis</i>	
<i>Isotropis cuneifolia</i>	
<i>Isotropis</i> sp.	
<i>Jacksonia calcicola</i> (ms)	M088 +
<i>Jacksonia fasciculata</i>	
	M087 +
	M086 +
	M085 +
	M084 +
	M083 +
	M082 +
	M081 +
	M080 +
	M079 +
	M078 +
	M077 +
	M094 +
	M093 +
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	M086 +
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	M081 +
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Jacksonia floribunda</i>	M077 +
<i>Jacksonia furcellata</i>	M078 +
<i>Jacksonia hakeoides</i>	M079 +
<i>Jacksonia sericea</i> (P3)	M080 +
<i>Jacksonia sternbergiana</i>	M081 +
* <i>Juncus capitatis</i>	M082 +
<i>Juncus</i> sp.	M083 +
<i>Kennedia prostrata</i>	M084 +
<i>Kennedia</i> sp.	M085 +
<i>Kunzea ericifolia</i>	M086 +
<i>Kunzea ericifolia</i> subsp. <i>ericifolia</i>	M087 +
<i>Kunzea recurva</i>	M088 +
<i>Lagenophora huegelii</i>	M089 +
<i>Latrobea tenella</i> var. <i>tenella</i>	M090 +
<i>Laxmannia ramosa</i>	M091 +
<i>Laxmannia sessiliflora</i>	M092 +
<i>Laxmannia</i> sp.	M093 +
<i>Laxmannia squarrosa</i>	M094 +
<i>Lechenaultia biloba</i>	M095 +
<i>Lechenaultia expansa</i>	M096 +
<i>Lechenaultia floribunda</i>	M097 +
<i>Lechenaultia linarioides</i>	M098 +
<i>Lenna disperma</i>	M099 +
<i>Lepidium rotundum</i>	M100 +
<i>Lepidobolus chaetocephalus</i>	M101 +
<i>Lepidobolus preissianus</i>	M102 +
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	M103 +
<i>Lepidobolus</i> sp.	M104 +
<i>Lepidosperma</i> aff. <i>leptostachyum</i>	M105 +
	M106 +
	M107 +
	M108 +
	M109 +
	M110 +
	M111 +
	M112 +
	M113 +
	M114 +

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE I

Species	Quadrats
<i>Lepidosperma glaucatum</i>	M077 +
<i>Lepidosperma longitudinale</i>	M078 +
<i>Lepidosperma pubisquamum</i>	M079 +
<i>Lepidosperma</i> sp.	M080 +
<i>Lepidosperma squamatum</i>	M081 +
<i>Lepidosperma tenue</i>	M082 +
<i>Leporella fimbriata</i>	M083 +
<i>Leptomeria cunninghamii</i>	M084 +
<i>Leptomeria empetriformis</i>	M085 +
<i>Leptomeria pauciflora</i>	M086 +
<i>Leptorhynchus scaber</i>	M087 +
<i>Leptospermum spinescens</i>	M088 +
<i>Leucopogon ?sprengelioides</i>	M089 +
<i>Leucopogon conostephioides</i>	M090 +
<i>Leucopogon leptanthus</i>	M091 +
<i>Leucopogon oxycedrus</i>	M092 +
<i>Leucopogon parviflorus</i>	M093 +
<i>Leucopogon polymorphus</i>	M094 +
<i>Leucopogon propinquus</i>	M095 +
<i>Leucopogon racemosus</i>	M096 +
<i>Leucopogon</i> sp.	M097 +
<i>Leucopogon</i> sp. (indeterminant) M137-1	M098 +
<i>Leucopogon sprengelioides</i>	M099 +
<i>Leucopogon squarrosus</i>	M100 +
<i>Levenhookia pusilla</i>	M101 +
<i>Levenhookia</i> sp.	M102 +
<i>Levenhookia stipitata</i>	M103 +
<i>Lobelia alata</i>	M104 +
<i>Lobelia heterophylla</i>	M105 +
	M106 +
	M107 +
	M108 +
	M109 +
	M110 +
	M111 +
	M112 +
	M113 +
	M114 +

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Lobelia</i> sp.	
<i>Lobelia tenuior</i>	
* <i>Lolium multiflorum</i> x <i>perenne</i>	
* <i>Lolium rigidum</i>	
<i>Lomandra ?britannii</i>	
<i>Lomandra caespitosa</i>	
<i>Lomandra ?caespitosa</i>	
<i>Lomandra hermaphrodita</i>	
<i>Lomandra ?hermaphrodita</i>	
<i>Lomandra maritima</i>	
<i>Lomandra micrantha</i>	
<i>Lomandra nigricans</i>	
<i>Lomandra preissii</i>	
<i>Lomandra sericea</i>	
<i>Lomandra sonderi</i>	
<i>Lomandra ?sonderi</i>	
<i>Lomandra</i> sp.	
<i>Lomandra suaveolens</i>	
* <i>Lotus angustissimus</i>	
* <i>Lotus suaveolens</i>	
<i>Loxocarya cinerea</i>	
<i>Lyginia barbata</i>	
<i>Lyperanthus serratus</i>	
<i>Lysinema ciliatum</i>	
<i>Lysinema elegans</i>	
<i>Macarthuria apetala</i>	
<i>Macrozamia riedlei</i>	
<i>Meeboldina cana</i>	
<i>Melaleuca cardiophylla</i>	
M077	+
M078	+
M079	
M080	
M081	
M082	
M083	+
M084	
M085	+
M086	
M087	+
M088	
M089	
M090	
M091	
M092	+
M093	+
M094	
M095	+
M096	
M097	
M098	+
M099	
M100	
M101	+
M102	+
M103	
M104	
M105	+
M106	+
M107	3
M108	+
M109	
M110	
M111	+
M112	
M113	
M114	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Melaleuca huegelii</i>	
<i>Melaleuca lateriflora</i>	
<i>Melaleuca preissiana</i>	
<i>Melaleuca rhaphiophylla</i>	
<i>Melaleuca scabra</i>	
<i>Melaleuca seriata</i>	
<i>Melaleuca</i> sp.	
<i>Melaleuca systema</i>	
<i>Melaleuca ?systema</i>	
<i>Melaleuca</i> aff. <i>systema</i>	
<i>Melaleuca teretifolia</i>	
<i>Melaleuca trichophylla</i>	
<i>Melaleuca ?trichophylla</i>	
<i>Melaleuca</i> aff. <i>trichophylla</i>	
<i>Melaleuca viminea</i>	
* <i>Melilotus indicus</i>	
<i>Mesomelaena graciliceps</i>	
<i>Mesomelaena pseudostygia</i>	
<i>Mesomelaena stygia</i>	
<i>Mesomelaena tetragona</i>	
<i>Microlaena stipoides</i>	
<i>Microlaena stipoides</i> var. <i>stipoides</i>	
<i>Microtis alba</i>	
<i>Millotia tenuifolia</i> var. <i>tenuifolia</i>	
* <i>Monopsis debilis</i>	
<i>Muehlenbeckia polybotrya</i>	
<i>Myoporum insulare</i>	
<i>Myrtacephalus helichrysoides</i>	
<i>Myrtaceae</i> sp.	
M077	+
M078	+
M079	+
M080	+
M081	
M082	
M083	+
M084	+
M085	+
M086	+
M087	+
M088	
M089	+
M090	+
M091	
M092	+
M093	
M094	+
M095	+
M096	+
M097	+
M098	+
M099	+
M100	+
M101	+
M102	+
M103	
M104	+
M105	+
M106	
M107	+
M108	+
M109	+
M110	
M111	+
M112	+
M113	+
M114	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Nemcia capitata</i>	
<i>Nemcia reticulata</i>	
<i>Notodanthonia</i> sp.	
<i>Nuytsia floribunda</i>	
<i>Olax benthamiana</i>	
<i>Olearia axillaris</i>	
<i>Olearia rudis</i>	
<i>Oligochaetochilus vittata</i>	
<i>Opercularia echinocephala</i>	
<i>Opercularia</i> sp.	
<i>Opercularia spermacocca</i>	
<i>Opercularia vaginata</i>	
* <i>Orobanche minor</i>	
Orchidaceae sp.	
<i>Orthrosanthus laxus</i>	
<i>Oxalis perennans</i>	
? <i>Oxalis corniculata</i>	
<i>Ozothamnus cordatus</i>	
* <i>Parentucellia latifolia</i>	
<i>Parietaria debilis</i>	
<i>Patersonia occidentalis</i>	
<i>Patersonia</i> sp.	
* <i>Pelargonium capitatum</i>	
<i>Pelargonium littorale</i>	
* <i>Pentaschistis airoides</i>	
<i>Pericalymma ellipticum</i>	
<i>Pericalymma ellipticum</i> var. <i>ellipticum</i>	
<i>Persoonia comata</i>	
<i>Petrophile brevifolia</i>	
M077	+
M078	+
M079	+
M080	+
M081	+
M082	+
M083	+
M084	+
M085	+
M086	+
M087	+
M088	+
M089	+
M090	+
M091	+
M092	+
M093	+
M094	+
M095	+
M096	+
M097	+
M098	+
M099	+
M100	+
M101	+
M102	+
M103	+
M104	+
M105	+
M106	+
M107	+
M108	+
M109	+
M110	+
M111	+
M112	+
M113	+
M114	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Petrophile drummondii</i>	
<i>Petrophile linearis</i>	
<i>Petrophile macrostachya</i>	
<i>Petrophile seminuda</i>	
<i>Petrophile serruriae</i>	
<i>Petrophile</i> sp.	
* <i>Petrophagia dubia</i>	
* <i>Phalaris minor</i>	
<i>Philothea spicata</i>	
<i>Philydrella pygmaea</i>	
<i>Phlebocarya ciliata</i>	
<i>Phyllangium paradoxum</i>	
<i>Phyllanthus calycinus</i>	
<i>Phylloglossum drummondii</i>	
<i>Pimelea calcicola</i>	
<i>Pimelea ferruginea</i>	
<i>Pimelea floribunda</i>	
<i>Pimelea rosea</i>	
<i>Pimelea</i> sp.	
<i>Pimelea suaveolens</i>	
<i>Pimelea sulphurea</i>	
* <i>Pinus radiata</i>	
<i>Pithecarpa corymbulosa</i> (P2)	
<i>Pithecarpa</i> sp.	
<i>Platytheca galioides</i>	
* <i>Poa annua</i>	
<i>Poa drummondiana</i>	
<i>Poa poiformis</i>	
* <i>Poa pratensis</i>	
M077	+
M078	+
M079	+
M080	
M081	
M082	
M083	+
M084	+
M085	
M086	
M087	+
M088	+
M089	+
M090	+
M091	+
M092	+
M093	+
M094	
M095	
M096	+
M097	
M098	
M099	
M100	
M101	+
M102	+
M103	
M104	
M105	
M106	+
M107	
M108	+
M109	
M110	
M111	+
M112	+
M113	+
M114	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Poaceae</i> sp.	
<i>Podolepis gracilis</i>	
<i>Podolepis lessonii</i>	
<i>Podotheca ?chrysantha</i>	
<i>Podotheca angustifolia</i>	
<i>Podotheca angustifolia/gnaphalioides?</i>	
<i>Podotheca chrysantha</i>	
<i>Podotheca gnaphalioides</i>	
<i>Podotheca</i> sp.	
<i>Pogonolepis stricta</i>	
* <i>Polyogon monspeliensis</i>	
<i>Poranthera ericoides</i>	
<i>Poranthera microphylla</i>	
<i>Prasophyllum drummondii</i>	
<i>Prasophyllum</i> sp.	
<i>Pteridium esculentum</i>	
<i>Pterostylis ?brevisepala</i> (ms)	
<i>Pterostylis</i> aff. <i>nana</i> SCP GJK/NG 1867cbs	
<i>Pterostylis recurva</i>	
<i>Pterostylis sanguinea</i>	
<i>Pterostylis</i> sp.	
<i>Pterostylis</i> sp. short sepals (W. JacksonBJ 259) (PN)	
<i>Ptilotus drummondii</i>	
<i>Ptilotus drummondii</i> var. <i>drummondii</i>	
<i>Ptilotus humilis</i> subsp. <i>humilis</i>	
<i>Ptilotus manglesii</i>	
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>	
<i>Ptilotus</i> sp.	
? <i>Puccinellia</i> sp.	
M077	+
M078	+
M079	
M080	
M081	
M082	
M083	
M084	+
M085	+
M086	+
M087	
M088	+
M089	
M090	
M091	
M092	
M093	+
M094	
M095	+
M096	+
M097	+
M098	+
M099	+
M100	+
M101	
M102	+
M103	+
M104	+
M105	+
M106	
M107	+
M108	+
M109	
M110	
M111	+
M112	
M113	+
M114	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Pultenaea reticulata</i>	
<i>Pyrorchis nigricans</i>	
? <i>Pyrorchis nigricans</i>	
<i>Quinetia urvillei</i>	
<i>Regelia ciliata</i>	
<i>Regelia ?ciliata</i>	
<i>Regelia inops</i>	
<i>Restio</i> sp.	
<i>Rhagodia baccata</i>	
<i>Rhagodia baccata</i> subsp. <i>baccata</i>	
<i>Rhodanthe citrina</i>	
<i>Rhodanthe corymbosa</i>	
<i>Rhodanthe</i> sp.	
* <i>Romulea obscura</i>	
<i>Romulea rosea</i>	
* <i>Rostraria cristata</i>	
* <i>Sagina apetala</i>	
<i>Santalum acuminatum</i>	
<i>Sarcozona bicarinata</i> (P3)	
<i>Scaevola canescens</i>	
<i>Scaevola ?canescens</i>	
<i>Scaevola crassifolia</i>	
<i>Scaevola crassifolia</i> <i>nitida</i>	
<i>Scaevola nitida</i>	
<i>Scaevola paludosa</i>	
<i>Scaevola repens</i>	
<i>Scaevola repens</i> var. <i>angustifolia</i>	
<i>Scaevola repens</i> var. <i>repens</i>	
<i>Scaevola</i> sp.	
M107	
M108	
M109	
M1080	+
M1081	
M1082	+
M1083	
M1084	+
M1085	
M1086	
M1087	
M1088	+
M1089	+
M1090	+
M1091	
M1092	
M1093	
M1094	
M1095	+
M1096	
M1097	+
M1098	+
M1099	+
M1100	+
M1101	
M1102	+
M1103	+
M1104	
M1105	+
M1106	
M1107	
M1108	+
M1109	+
M1110	
M1111	+
M1112	
M1113	+
M1114	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Scaevola thesioides</i>	
<i>Schoenolaena juncea</i>	
<i>Schoenus</i> aff. <i>brevisetis</i>	
<i>Schoenus asperocarpus</i>	
<i>Schoenus breviculmis</i>	
<i>Schoenus brevisetis</i>	
<i>Schoenus caespitius</i>	
<i>Schoenus</i> ? <i>caespitius</i>	
<i>Schoenus clandestinus</i>	
<i>Schoenus curvifolius</i>	
<i>Schoenus efoliatus</i>	
<i>Schoenus grandiflorus</i>	
<i>Schoenus lanatus</i>	
<i>Schoenus nanus</i>	
<i>Schoenus natans</i> (P4)	
<i>Schoenus odontocarpus</i>	
<i>Schoenus rigens</i>	
<i>Schoenus</i> sp.	
<i>Schoenus</i> ? <i>subfascicularis</i>	
<i>Scholtzia involucrata</i>	
<i>Scholtzia</i> sp.	
<i>Selaginella gracillima</i>	
<i>Senecio lautus</i>	
<i>Senecio lautus</i> subsp. <i>maritimus</i>	
<i>Senecio lautus</i> subsp. <i>dissectifolius</i>	
<i>Senecio</i> sp.	
* <i>Silene gallica</i>	
<i>Siloxerus humifusus</i>	
* <i>Solanum americanum</i>	
M077	+
M078	+
M079	+
M080	
M081	+
M082	
M083	+
M084	
M085	
M086	+
M087	
M088	
M089	+
M090	+
M091	
M092	
M093	+
M094	
M095	+
M096	
M097	
M098	
M099	+
M100	
M101	
M102	+
M103	
M104	
M105	+
M106	
M107	
M108	+
M109	
M110	
M111	
M112	+
M113	
M114	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>*Solanum nigrum</i>	
<i>*Sonchus oleraceus</i>	
<i>Sowerbaea laxiflora</i>	
<i>Sphaerolobium</i> sp.	
<i>Sphaerolobium vimineum</i>	
<i>Spyridium globulosum</i>	
<i>Stachystemon axillaris</i> (P4)	
<i>Stackhousia monogyna</i>	
<i>Stackhousia</i> sp.	
<i>*Stellaria media</i>	
<i>Stenopetalum gracile</i>	
<i>Stirlingia latifolia</i>	
<i>Stylidium adpressum</i>	
<i>Stylidium amoenum</i>	
<i>Stylidium brunonianum</i> subsp. <i>brunonianum</i>	
<i>Stylidium bulbiferum</i>	
<i>Stylidium calcaratum</i>	
<i>Stylidium crossocephalum</i>	
<i>Stylidium diuroides</i> subsp. <i>diuroides</i>	
<i>Stylidium inundatum</i>	
<i>Stylidium junceum</i>	
<i>Stylidium lateriticola</i>	
<i>Stylidium longitubum</i> (F3)	
<i>Stylidium macrocarpum</i>	
<i>Stylidium maritimum</i>	
<i>Stylidium miniatum</i>	
<i>Stylidium petiolare</i>	
<i>Stylidium piliferum</i> subsp. <i>piliferum</i>	
<i>Stylidium repens</i>	
	M077 +
	M078
	M079
	M080
	M081
	M082
	M083 +
	M084
	M085
	M086
	M087
	M088
	M089
	M090
	M091
	M092
	M093
	M094
	M095
	M096
	M097
	M098 +
	M099
	M100
	M101
	M102
	M103
	M104
	M105
	M106
	M107
	M108
	M109
	M110
	M111
	M112
	M113
	M114

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Styliidium schoenoides</i>	
<i>Styliidium</i> sp.	
<i>Synaphea petiolaris</i>	
<i>Synaphea</i> sp.	
<i>Synaphea spinulosa</i>	
<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>	
<i>Templetonia retusa</i>	
<i>Tersonia cyathiflora</i>	
* <i>Tetragonia decumbens</i>	
<i>Tetragonia capillaris</i>	
<i>Tetragonia octandra</i>	
<i>Thelymitra antennifera</i>	
<i>Thelymitra campanulata</i>	
<i>Thelymitra crinita</i>	
<i>Thelymitra flexuosa</i>	
<i>Thelymitra</i> sp.	
<i>Thomasia triphylla</i>	
<i>Threlkedia diffusa</i>	
<i>Thysanotus arenarius</i>	
<i>Thysanotus dichotomus</i>	
<i>Thysanotus manglesianus</i>	
<i>Thysanotus manglesianus</i> / <i>patersonii</i>	
<i>Thysanotus patersonii</i>	
<i>Thysanotus patersonii</i> / <i>manglesianus</i>	
<i>Thysanotus</i> sp.	
<i>Thysanotus sparteus</i>	
<i>Thysanotus thyrsoideus</i>	
<i>Thysanotus ?thyrsoideus</i>	
<i>Thysanotus triandrus</i>	
	+
M077	
M078	
M079	
M080	
M081	
M082	
M083	
M084	
M085	
M086	
M087	
M088	
M089	+
M090	
M091	
M092	+
M093	
M094	
M095	
M096	
M097	
M098	
M099	
M100	
M101	
M102	+
M103	
M104	
M105	
M106	
M107	
M108	
M109	
M110	
M111	
M112	
M113	
M114	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Trachymene coerulea</i>	
<i>Trachymene pilosa</i>	
<i>Tribonanthes australis</i>	
<i>Tribonanthes longipetala</i>	
<i>Tricoryne elatior</i>	
<i>Tricoryne tenella</i>	
* <i>Trifolium arvense</i>	
* <i>Trifolium campestre</i> var. <i>campestre</i>	
* <i>Trifolium cernuum</i>	
* <i>Trifolium dubium</i>	
* <i>Trifolium</i> sp.	
<i>Triglochin centrocarpa</i>	
<i>Triglochin huegelii/linearis</i>	
<i>Triglochin linearis</i>	
<i>Triglochin muelleri</i>	
<i>Triglochin</i> sp.	
<i>Triglochin trichophora</i>	
<i>Tripterococcus brunonis</i>	
<i>Triphuria bibracteata</i>	
<i>Trymalium floribundum</i>	
* <i>Typha orientalis</i>	
* <i>Ursinia anthemoides</i>	
<i>Utricularia multifida</i>	
<i>Utricularia violacea</i>	
<i>Velleia trinervis</i>	
* <i>Vellereophyton dealbatum</i>	
<i>Verreauxia reinwardtii</i>	
<i>Verticordia densiflora</i>	
<i>Verticordia densiflora</i> var. <i>densiflora</i>	
M107	
M108	
M109	
M110	
M111	
M112	
M113	+
M114	
M107	
M108	+
M109	+
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M113	+
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M108	+
M109	+
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M108	+
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M113	+
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M108	+
M109	+
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M113	+
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M113	+
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M108	+
M109	+
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M113	+
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M108	+
M109	+
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M113	+
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M113	+
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M113	+
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M108	+
M109	+
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M111	
M112	
M113	+
M114	
M107	
M108	+
M109	+
M110	
M111	
M112	
M113	+
M114	
M107	
M108	+
M109	+
M110	
M111	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Verticordia nitens</i>	
<i>Verticordia ovalifolia</i>	
<i>Verticordia plumosa</i>	
<i>Villarsia capitata</i>	
* <i>Vulpia bromoides</i>	
* <i>Vulpia myuros</i>	
* <i>Vulpia</i> sp.	
* <i>Wahlenbergia capensis</i>	
<i>Wahlenbergia preissii</i>	
<i>Waitzia</i> sp.	
<i>Waitzia suaveolens</i> var. <i>suaveolens</i>	
<i>Westringia dampieri</i>	
<i>Wurmbea dioica</i>	
<i>Wurmbea monantha</i>	
<i>Wurmbea pygmaea</i>	
<i>Wurmbea</i> sp.	
<i>Xanthorrhoea gracilis</i>	
<i>Xanthorrhoea preissii</i>	
<i>Xanthosia ciliata</i>	
<i>Xanthosia huegelii</i>	
* <i>Zantedeschia aethiopica</i>	
M077	
M078	+
M079	+
M080	+
M081	
M082	
M083	+
M084	
M085	
M086	+
M087	+
M088	+
M089	+
M090	+
M091	+
M092	+
M093	+
M094	+
M095	
M096	+
M097	
M098	+
M099	
M100	
M101	
M102	+
M103	+
M104	
M105	+
M106	+
M107	+
M108	+
M109	
M110	
M111	+
M112	+
M113	+
M114	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>*Atriplex prostrata</i>	
<i>Austrodanthonia occidentalis</i>	
<i>Austrodanthonia ?occidentalis</i>	
<i>Austrodanthonia</i> sp.	
<i>Austrospiza</i> sp.	
<i>Austrospiza ?macalpinei</i>	
<i>Austrospiza compressa</i>	
<i>Austrospiza flavescens</i>	
<i>Austrospiza macalpinei</i>	
<i>Austrospiza</i> sp.	
<i>*Avellinia michelii</i>	
<i>Azolla filiculoides</i>	
<i>Baeckea camphorosmae</i>	
<i>Baeckea robusta</i>	
<i>Baeckea</i> sp.	
<i>Banksia attenuata</i>	
<i>Banksia grandis</i>	
<i>Banksia ilicifolia</i>	
<i>Banksia littoralis</i>	
<i>Banksia menziesii</i>	
<i>Banksia prionotes</i>	
<i>Baumea juncea</i>	
<i>Baumea vaginalis</i>	
<i>Beaufortia elegans</i>	
<i>Beyeria cinerea</i>	
<i>Blennospora</i> sp.	
<i>Boronia purdieana</i>	
<i>Boronia purdieana</i> subsp. <i>purdieana</i>	
<i>Boronia ramosa</i>	
M115	+
M116	
M117	+
M118	
M119	+
M120	+
M121	+
M122	+
M123	
M124	
M125	+
M126	+
M127	
M128	
M129	
M130	+
M131	+
M132	+
M133	+
M134	
M135	+
M136	
M137	+
M138	
M139	+
M140	+
M141	+
BAM1	
BAM2	+
BAM3	
ELDOI	+
MILT1	+
MILT2	
MILT3	+
MILT4	+
MILT5	
MILT6	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Dichelachne crinita</i>	
<i>Dichopogon capillipes</i>	
<i>Dielsia stenostachya</i>	
<i>Dillwynia dillwynioides</i>	
<i>Diplolaena angustifolia</i>	
<i>Diplopeltis huegelii</i>	
<i>Disa bracteata</i>	
* <i>Dischisma arenarium</i>	
<i>Dischisma</i> sp.	
<i>Diuris longifolia</i>	
<i>Diuris</i> sp.	
<i>Drosera erythrorhiza</i>	
<i>Drosera gigantea</i> subsp. <i>gigantea</i>	
<i>Drosera glanduligera</i>	
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	
<i>Drosera menziesii</i>	
<i>Drosera menziesii</i> subsp. <i>penicillaris</i>	
<i>Drosera menziesii</i> subsp. <i>menziesii</i>	
<i>Drosera neesii</i>	
<i>Drosera nitidula</i>	
<i>Drosera paleacea</i>	
<i>Drosera pallida</i>	
<i>Drosera rosulata</i>	
<i>Drosera</i> sp.	
<i>Drosera</i> sp. climbing	
<i>Dryandra lindleyana</i>	
<i>Dryandra lindleyana</i> var. <i>lindleyana</i>	
<i>Dryandra nivea</i>	
<i>Dryandra sessilis</i>	
M115	+
M116	
M117	+
M118	
M119	+
M120	
M121	
M122	
M123	
M124	
M125	
M126	
M127	
M128	
M129	
M130	+
M131	
M132	+
M133	
M134	
M135	+
M135b	
M136	
M137	+
M138	
M139	+
M140	+
M141	+
BAM1	+
BAM2	
BAM3	+
ELDOI	+
MILT1	+
MILT2	
MILT3	+
MILT4	+
MILT5	+
MILT6	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Lepidosperma gladiatum</i>	
<i>Lepidosperma longitudinale</i>	
<i>Lepidosperma pubisquamum</i>	
<i>Lepidosperma</i> sp.	
<i>Lepidosperma squamatum</i>	
<i>Lepidosperma tenue</i>	
<i>Leporella fimbriata</i>	
<i>Leptomeria cunninghamii</i>	
<i>Leptomeria empetriformis</i>	
<i>Leptomeria pauciflora</i>	
<i>Leptorhynchus scaber</i>	
<i>Leptospermum spinescens</i>	
<i>Leucopogon ?sprengelioides</i>	
<i>Leucopogon conostephioides</i>	
<i>Leucopogon leptanthus</i>	
<i>Leucopogon oxycedrus</i>	
<i>Leucopogon parviflorus</i>	
<i>Leucopogon polymorphus</i>	
<i>Leucopogon propinquus</i>	
<i>Leucopogon racemosus</i>	
<i>Leucopogon</i> sp.	
<i>Leucopogon</i> sp. (indeterminant) M137-1	
<i>Leucopogon sprengelioides</i>	
<i>Leucopogon squarrosus</i>	
<i>Levenhookia pusilla</i>	
<i>Levenhookia</i> sp.	
<i>Levenhookia stipitata</i>	
<i>Lobelia alata</i>	
<i>Lobelia heterophylla</i>	
M115	+
M116	
M117	+
M118	
M119	
M120	+
M121	
M122	+
M123	
M124	
M125	
M126	+
M127	
M128	
M129	+
M130	
M131	
M132	
M133	
M134	
M135	
M135b	
M136	
M137	+
M138	
M139	
M140	
M141	
BAM1	
BAM2	
BAM3	
ELD01	
MILT1	
MILT2	+
MILT3	
MILT4	
MILT5	
MILT6	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Lobelia</i> sp.	
<i>Lobelia tenuior</i>	
* <i>Lolium multiflorum</i> x <i>perenne</i>	
* <i>Lolium rigidum</i>	
<i>Lomandra ?brittanii</i>	
<i>Lomandra caespitosa</i>	
<i>Lomandra ?caespitosa</i>	
<i>Lomandra hermaphrodita</i>	
<i>Lomandra ?hermaphrodita</i>	
<i>Lomandra maritima</i>	
<i>Lomandra micrantha</i>	
<i>Lomandra nigricans</i>	
<i>Lomandra preissii</i>	
<i>Lomandra sericea</i>	
<i>Lomandra sonderi</i>	
<i>Lomandra ?sonderi</i>	
<i>Lomandra</i> sp.	
<i>Lomandra suaveolens</i>	
* <i>Lotus angustissimus</i>	
* <i>Lotus suaveolens</i>	
<i>Loxocarya cinerea</i>	
<i>Lyginia barbata</i>	
<i>Lyperanthus serratus</i>	
<i>Lysinema ciliatum</i>	
<i>Lysinema elegans</i>	
<i>Macarthuria apetala</i>	
<i>Macrozamia riedlei</i>	
<i>Meeboldina cana</i>	
<i>Melaleuca cardiophylla</i>	
M115	+
M116	+
M117	+
M118	+
M119	+
M120	
M121	
M122	+
M123	+
M124	
M125	
M126	+
M127	
M128	
M129	
M130	+
M131	
M132	+
M133	
M134	+
M135	
M135b	
M136	
M137	
M138	
M139	
M140	+
M141	
BAM1	+
BAM2	+
BAM3	+
ELDOI	+
MILT1	
MILT2	
MILT3	+
MILT4	+
MILT5	
MILT6	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Petrophile drummondii</i>	
<i>Petrophile linearis</i>	
<i>Petrophile macrostachya</i>	
<i>Petrophile seminuda</i>	
<i>Petrophile serruriae</i>	
<i>Petrophile</i> sp.	
* <i>Petrorhagia dubia</i>	
* <i>Phalaris minor</i>	
<i>Philotheca spicata</i>	
<i>Phylidrella pygmaea</i>	
<i>Phlebocarya ciliata</i>	
<i>Phyllangium paradoxum</i>	
<i>Phyllanthus calycinus</i>	
<i>Phylloglossum drummondii</i>	
<i>Pimelea calcicola</i>	
<i>Pimelea ferruginea</i>	
<i>Pimelea floribunda</i>	
<i>Pimelea rosea</i>	
<i>Pimelea</i> sp.	
<i>Pimelea suaveolens</i>	
<i>Pimelea sulphurea</i>	
* <i>Pinus radiata</i>	
<i>Pithecarpa corymbulosa</i> (P2)	
<i>Pithecarpa</i> sp.	
<i>Platytheca galioides</i>	
* <i>Poa annua</i>	
<i>Poa drummondiana</i>	
<i>Poa poiformis</i>	
* <i>Poa pratensis</i>	
M115	+
M116	
M117	+
M118	+
M119	+
M120	+
M121	+
M122	+
M123	+
M124	+
M125	+
M126	+
M127	
M128	
M129	+
M130	+
M131	+
M132	+
M133	
M134	
M135	
M135b	
M136	
M137	+
M138	
M139	
M140	+
M141	+
BAM1	
BAM2	
BAM3	
ELDOI	+
MILT1	+
MILT2	
MILT3	+
MILT4	+
MILT5	
MILT6	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats	M115	M116	M117	M118	M119	M120	M121	M122	M123	M124	M125	M126	M127	M128	M129	M130	M131	M132	M133	M134	M135	M135b	M136	M137	M138	M139	M140	M141	BAM1	BAM2	BAM3	ELDOI	MILT1	MILT2	MILT3	MILT4	MILT5	MILT6								
<i>Styliadum schoenoides</i>																																															
<i>Styliadum</i> sp.																																															
<i>Synaphea petiolaris</i>																																															
<i>Synaphea</i> sp.																																															
<i>Synaphea spinulosa</i>																																															
<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>																																															
<i>Templetonia retusa</i>																																															
<i>Tersonia cyathiflora</i>																																															
* <i>Tetragonia decumbens</i>																																															
<i>Tetragonia capillaris</i>																																															
<i>Tetragonia octandra</i>																																															
<i>Thelymitra antennifera</i>																																															
<i>Thelymitra campanulata</i>																																															
<i>Thelymitra crinita</i>																																															
<i>Thelymitra flexuosa</i>																																															
<i>Thelymitra</i> sp.																																															
<i>Thomasia triphylla</i>																																															
<i>Threlkedia diffusa</i>																																															
<i>Thysanotus arenarius</i>																																															
<i>Thysanotus dichotomus</i>																																															
<i>Thysanotus manglesianus</i>																																															
<i>Thysanotus manglesianus</i> / <i>patersonii</i>																																															
<i>Thysanotus patersonii</i>																																															
<i>Thysanotus patersonii</i> / <i>manglesianus</i>																																															
<i>Thysanotus</i> sp.																																															
<i>Thysanotus sparteus</i>																																															
<i>Thysanotus thyrsoideus</i>																																															
<i>Thysanotus ?thyrsoideus</i>																																															
<i>Thysanotus triandrus</i>																																															

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Trachymene coerulea</i>	
<i>Trachymene pilosa</i>	
<i>Tribonanthes australis</i>	
<i>Tribonanthes longipetala</i>	
<i>Tricoryne elatior</i>	
<i>Tricoryne tenella</i>	
* <i>Trifolium arvense</i>	
* <i>Trifolium campestre</i> var. <i>campestre</i>	
* <i>Trifolium cernuum</i>	
* <i>Trifolium dubium</i>	
* <i>Trifolium</i> sp.	
<i>Triglochin centrocarpa</i>	
<i>Triglochin huegelii/linearis</i>	
<i>Triglochin linearis</i>	
<i>Triglochin muelleri</i>	
<i>Triglochin</i> sp.	
<i>Triglochin trichophora</i>	
<i>Tripterococcus brunonis</i>	
<i>Trituria bibracteata</i>	
<i>Trymalium floribundum</i>	
* <i>Typha orientalis</i>	
* <i>Ursinia anthemoides</i>	
<i>Utricularia multifida</i>	
<i>Utricularia violacea</i>	
<i>Velleia trinervis</i>	
* <i>Vellereophyton dealbatum</i>	
<i>Verreauxia reinwardtii</i>	
<i>Verticordia densiflora</i>	
<i>Verticordia densiflora</i> var. <i>densiflora</i>	
M115	+
M116	
M117	+
M118	
M119	
M120	
M121	
M122	
M123	
M124	+
M125	
M126	
M127	
M128	+
M129	
M130	+
M131	+
M132	+
M133	+
M134	+
M135	+
M135b	+
M136	
M137	+
M138	+
M139	+
M140	
M141	
BAM1	+
BAM2	+
BAM3	+
ELDOI	
MILT1	+
MILT2	+
MILT3	
MILT4	+
MILT5	
MILT6	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Verticordia nitens</i>	
<i>Verticordia ovalifolia</i>	
<i>Verticordia plumosa</i>	
<i>Villarsia capitata</i>	
* <i>Vulpia bromoides</i>	
* <i>Vulpia myuros</i>	
* <i>Vulpia</i> sp.	
* <i>Wahlenbergia capensis</i>	
<i>Wahlenbergia preissii</i>	
<i>Waiztia</i> sp.	
<i>Waiztia suaveolens</i> var. <i>suaveolens</i>	
<i>Westringia dampieri</i>	
<i>Wurmbea dioica</i>	
<i>Wurmbea monaniha</i>	
<i>Wurmbea pygmaea</i>	
<i>Wurmbea</i> sp.	
<i>Xanthorrhoea gracilis</i>	
<i>Xanthorrhoea preissii</i>	
<i>Xanthosia ciliata</i>	
<i>Xanthosia huegelii</i>	
* <i>Zantedeschia aethiopica</i>	
M115	+
M116	
M117	+
M118	+
M119	
M120	
M121	+
M122	+
M123	+
M124	
M125	
M126	
M127	
M128	
M129	
M130	+
M131	+
M132	+
M133	+
M134	+
M135	+
M135b	
M136	
M137	
M138	+
M139	+
M140	+
M141	+
BAM1	+
BAM2	+
BAM3	+
ELDOI	+
MILT1	+
MILT2	
MILT3	
MILT4	+
MILT5	
MILT6	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Acacia alata</i> var. <i>tetrantha</i>	YANI +
<i>Acacia barbinervis</i> subsp. <i>borealis</i>	WLB13 +
<i>Acacia benthamii</i> (P2)	WLB12 +
<i>Acacia cochlearis</i>	WLB11 +
<i>Acacia cyclops</i>	WLB10 +
<i>Acacia huegelii</i>	WLB9 +
<i>Acacia lasiocarpa</i>	WLB8 +
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	WLB7 +
<i>Acacia pulchella</i>	WLB6 +
<i>Acacia pulchella</i> var. <i>glaberrima</i>	WLB5 +
<i>Acacia rostellifera</i>	WLB4 +
<i>Acacia saligna</i>	WLB3 +
<i>Acacia sessilis</i>	WLB1 +
<i>Acacia</i> sp.	WATRI +
<i>Acacia stenoptera</i>	WAB4 +
<i>Acacia truncata</i>	WAB3 +
<i>Acacia xanthina</i>	WAB2 +
<i>Acanthocarpus preissii</i>	WAB1 +
<i>Adenanthos barbiger</i>	SHE6 +
<i>Adenanthos cygnorum</i>	SHE5 +
<i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i>	SHE4 +
<i>Adenanthos obovatus</i>	SHE3 +
<i>Adenanthos</i> sp.	SHE2 +
<i>Agonis flexuosa</i>	SHE1 +
<i>Agonis linearifolia</i>	RAF3 +
<i>Agrostis avenacea</i>	RAF2 +
* <i>Aira caryophyllea</i>	RAF1 +
<i>Aira</i> sp.	PLINE7
<i>Alexgeorgea nitens</i>	PLINE6 +
	PLINE5
	PLINE4 +
	PLINE3
	PLINE2 +
	PLINE1 +
	MUCK2 +
	MUCK1 +
	MILT8 +
	MILT7 +

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
* <i>Atriplex prostrata</i>	
<i>Austrodanthonia occidentalis</i>	
<i>Austrodanthonia ?occidentalis</i>	
<i>Austrodanthonia</i> sp.	
<i>Austrostipa</i> sp.	
<i>Austrostipa ?macalpinei</i>	
<i>Austrostipa compressa</i>	
<i>Austrostipa flavescens</i>	
<i>Austrostipa macalpinei</i>	
<i>Austrostipa</i> sp.	
* <i>Avellinia michelii</i>	
<i>Azolla fliculoides</i>	
<i>Baeckea camphorosmae</i>	
<i>Baeckea robusta</i>	
<i>Baeckea</i> sp.	
<i>Banksia attenuata</i>	
<i>Banksia grandis</i>	
<i>Banksia ilicifolia</i>	
<i>Banksia littoralis</i>	
<i>Banksia menziesii</i>	
<i>Banksia prionotes</i>	
<i>Baumea juncea</i>	
<i>Baumea vaginalis</i>	
<i>Beaufortia elegans</i>	
<i>Beyeria cinerea</i>	
<i>Blennospora</i> sp.	
<i>Boronia purdieana</i>	
<i>Boronia purdieana</i> subsp. <i>purdieana</i>	
<i>Boronia ramosa</i>	
MILT7	+
MILT8	+
MUCK1	+
MUCK2	
PLINE1	+
PLINE2	+
PLINE3	+
PLINE4	+
PLINE5	
PLINE6	+
PLINE7	+
RAAF1	+
RAAF2	+
RAAF3	
SHE1	+
SHE2	+
SHE3	+
SHE4	+
SHE5	+
SHE6	+
WABL1	+
WABL2	+
WABL3	+
WABL4	+
WATRI	+
WILB1	+
WILB2	+
WILB3	+
WILB4	+
WILB5	+
WILB6	+
WILB7	+
WILB8	+
WILB9	+
WILB10	+
WILB11	
WILB12	+
WILB13	+
VANI	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	MIL77 +
<i>Boronia ramosa</i> subsp. <i>ramosa</i>	MIL78 +
<i>Borya sphaerocephala</i>	MUCK1 +
<i>Bossiaea eriocarpa</i>	MUCK2 +
<i>Brachyscome iberidifolia</i>	PLINE1 +
<i>Brachyscome</i> sp.	PLINE2 +
<i>Brassica</i> sp.	PLINE3 +
* <i>Briza maxima</i>	PLINE4 +
* <i>Briza minor</i>	PLINE5 +
* <i>Briza</i> sp.	PLINE6 +
* <i>Bromus diandrus</i>	PLINE7 +
* <i>Bromus rubens</i>	RAAF1 +
* <i>Bromus</i> sp.	RAAF2 +
? <i>Bromus</i> sp.	RAAF3 +
<i>Burchardia bairdiae</i>	SHE1 +
<i>Burchardia umbellata</i>	SHE2 +
<i>Caesia</i> sp.	SHE3 +
<i>Caladenia flava</i> subsp. <i>flava</i>	SHE4 +
<i>Caladenia latifolia</i>	SHE5 +
<i>Caladenia marginata</i>	SHE6 +
<i>Caladenia paludosa</i>	WABL1 +
<i>Caladenia</i> sp.	WABL2 +
<i>Calandrinia brevipedata</i>	WABL3 + +
<i>Calandrinia corrigioloides</i>	WABL4 +
<i>Calandrinia granulifera</i>	WABL5 +
<i>Calandrinia liniflora</i>	WABL6 +
<i>Calandrinia</i> sp.	WABL7 +
<i>Calcectasia cyanea</i> (P2)	WABL8 +
<i>Calothamnus lateralis</i>	WABL9 +
	WABL10 +
	WABL11 +
	WABL12 +
	WABL13 +
	WABL14 +
	WABL15 +
	WABL16 +
	WABL17 +
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	WABL470 +
	WABL471 +
	WABL472 +
	WABL473 +
	WABL474 +
	WABL475 +
	WABL476 +
	WABL477 +
	WABL478 +
	WABL479 +
	WABL480 +
	WABL481 +

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Calothamnus quadrifidus</i>	
<i>Calothamnus sanguineus</i>	
<i>Calytrix angulata</i>	
<i>Calytrix flavescens</i>	
<i>Calytrix fraseri</i>	
<i>Calytrix sapphirina</i>	
<i>Calytrix strigosa</i>	
* <i>Carpobrotus edulis</i>	
<i>Carpobrotus virescens</i>	
<i>Caryophyllaceae</i> sp.	
<i>Cassutha flava</i>	
<i>Cassutha glabella</i>	
<i>Cassutha pomiformis</i>	
<i>Cassutha racemosa</i>	
<i>Cassutha</i> sp.	
<i>Casuarina obesa</i>	
<i>Causis dioica</i>	
* <i>Centaurium erythraea</i>	
<i>Centrolepis aristata</i>	
<i>Centrolepis drummondiana</i>	
<i>Centrolepis mutica</i>	
<i>Centrolepis polygyna</i>	
* <i>Cerastium glomeratum</i>	
<i>Chamaescilla corymbosa</i>	
* <i>Chenopodium macrosperrum</i>	
<i>Chordifex microcodon</i>	
<i>Chorizandra enodis</i>	
* <i>Cicendia filiformis</i>	
<i>Comesperma calymega</i>	
MILT7	+
MILT8	
MUCK1	+
MUCK2	
PLINE1	+
PLINE2	+
PLINE3	
PLINE4	
PLINE5	
PLINE6	
PLINE7	
RAAF1	+
RAAF2	+
RAAF3	+
SHE1	+
SHE2	+
SHE3	+
SHE4	+
SHE5	+
SHE6	+
WABL1	+
WABL2	+
WABL3	+
WABL4	+
WATRI	+
WILB1	+
WILB3	+
WILB4	+
WILB5	+
WILB6	+
WILB7	+
WILB8	+
WILB9	+
WILB10	+
WILB11	1
WILB12	
WILB13	+
WILB14	+
YANI	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Comesperma confertum</i>	
<i>Comesperma integerrimum</i>	
<i>Comesperma</i> sp.	
<i>Conospermum acerosum</i> subsp. <i>acerosum</i>	
<i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i>	
<i>Conospermum incurvum</i>	
<i>Conospermum stoechadis</i> subsp. <i>stoechadis</i>	
<i>Conospermum triplinervium</i>	
<i>Conostephium pendulum</i>	
<i>Conostephium minus</i> (P4)	
<i>Conostephium pendulum</i>	
<i>Conostephium preissii</i>	
<i>Conostylis aculeata</i>	
<i>Conostylis aurea</i>	
<i>Conostylis candicans</i> subsp. <i>candicans</i>	
<i>Conostylis juncea</i>	
<i>Conostylis pauciflora</i>	
<i>Conostylis pauciflora</i> subsp. <i>euryhipis</i> (P3)	
<i>Conostylis serrulata</i>	
<i>Conostylis setigera</i> subsp. <i>setigera</i>	
<i>Conostylis setosa</i>	
<i>Conostylis</i> sp.	
* <i>Coryza albida</i>	
<i>Coryza</i> sp.	
<i>Corymbia calophylla</i>	
<i>Corynotheca micrantha</i>	
<i>Cotula coronopifolia</i>	
<i>Crassula colorata</i>	
<i>Crassula colorata</i> var. <i>acuminata</i>	
	MILT7
	MILT8
	MUCK1
	MUCK3
	PLINE1
	PLINE2
	PLINE3
	PLINE4
	PLINE5
	PLINE6
	PLINE7
	RAAF1
	RAAF2
	RAAF3
	SHE1
	SHE2
	SHE3
	SHE4
	SHE5
	SHE6
	WABL1
	WABL2
	WABL3
	WABL4
	WATRI
	WILB1
	WILB3
	WILB4
	WILB5
	WILB6
	WILB7
	WILB8
	WILB9
	WILB10
	WILB11
	WILB12
	WILB13
	YANI

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Crassula ?colorata</i>	
<i>Crassula exserta</i>	
* <i>Crassula glomerata</i>	
* <i>Crassula natans</i>	
<i>Crassula</i> sp.	
<i>Cristonia biloba</i>	
<i>Croninia kingiana</i>	
<i>Cryptandra mutila</i>	
<i>Cryptandra pungens</i>	
<i>Cyanicula deformis</i>	
<i>Cyathochaeta avenacea</i>	
* <i>Cyperus tenellus</i>	
<i>Cyrtostylis robusta</i>	
<i>Cyrtostylis</i> sp.	
<i>Dampiera linearis</i>	
<i>Dampiera</i> sp.	
<i>Dasyogon bromeliifolius</i>	
<i>Dasyogon</i> sp.	
<i>Daucus glochidiatus</i>	
<i>Daviesia decurrens</i>	
<i>Daviesia decurrens</i> subsp. <i>decurrens</i> (ms)	
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> (ms)	
<i>Daviesia nudiflora</i>	
<i>Daviesia physodes</i>	
<i>Daviesia podophylla</i>	
<i>Daviesia quadrilatera</i>	
<i>Desmodium fasciculatus</i>	
<i>Desmodium flexuosus</i>	
<i>Dianella revoluta</i>	
MILT7	
MILT8	
MUCK1	
MUCK2	
PLINE1	
PLINE2	
PLINE3	
PLINE4	
PLINE5	
PLINE6	
PLINE7	
RAAF1	
RAAF2	
RAAF3	
SHE1	
SHE2	
SHE3	
SHE4	
SHE5	
SHE6	
WABL1	
WABL2	
WABL3	
WABL4	
WATRI	
WILB1	
WILB3	
WILB4	
WILB5	
WILB6	
WILB7	
WILB8	
WILB9	
WILB10	
WILB11	
WILB12	
WILB13	
YANI	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Dichelachne crinita</i>	MLT7
<i>Dichopogon capillipes</i>	
<i>Dielsia stenostachya</i>	
<i>Dillwynia dillwynioides</i>	
<i>Diplolaena angustifolia</i>	
<i>Diplopeltis huegelii</i>	
<i>Disa bracteata</i>	
* <i>Dischisma arenarium</i>	
<i>Dischisma</i> sp.	
<i>Diuris longifolia</i>	
<i>Diuris</i> sp.	
<i>Drosera erythrorhiza</i>	
<i>Drosera gigantea</i> subsp. <i>gigantea</i>	
<i>Drosera glanduligera</i>	
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	
<i>Drosera menziesii</i>	
<i>Drosera menziesii</i> subsp. <i>penicillaris</i>	
<i>Drosera menziesii</i> subsp. <i>menziesii</i>	
<i>Drosera neesii</i>	
<i>Drosera nitidula</i>	
<i>Drosera paleacea</i>	
<i>Drosera pallida</i>	
<i>Drosera rosulata</i>	
<i>Drosera</i> sp.	
<i>Drosera</i> sp. climbing	
<i>Dryandra lindleyana</i>	
<i>Dryandra lindleyana</i> var. <i>lindleyana</i>	
<i>Dryandra nivea</i>	
<i>Dryandra sessilis</i>	
	MLT7
	MLT8
	MUCK1
	MUCK2
	PLINE1
	PLINE2
	PLINE3
	PLINE4
	PLINE5
	PLINE6
	PLINE7
	RAAF1
	RAAF2
	RAAF3
	SHE1
	SHE2
	SHE3
	SHE4
	SHE5
	SHE6
	WABL1
	WABL2
	WABL3
	WABL4
	WATRI
	WILB1
	WILB3
	WILB4
	WILB5
	WILB6
	WILB7
	WILB8
	WILB9
	WILB10
	WILB11
	WILB12
	WILB13
	YANI

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Ecdiocolea monostachya</i>	
* <i>Ehrharta calycina</i>	
* <i>Ehrharta longiflora</i>	
<i>Ehrharta</i> sp.	
<i>Eleocharis acuta</i>	
<i>Eleocharis</i> sp.	
<i>Elythranthera brunonis</i>	
<i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i>	
<i>Eremaea beaufortioides</i>	
<i>Eremaea brevifolia</i>	
<i>Eremaea pauciflora</i>	
<i>Eremaea pauciflora</i> var. <i>pauciflora</i>	
<i>Eremaea</i> sp.	
<i>Eremophila glabra</i>	
<i>Eriochilus dilatatus</i>	
* <i>Erodium botrys</i>	
* <i>Erodium cicutarium</i>	
* <i>Erodium moschatum</i>	
<i>Eryngium pinnatifidum</i> subsp. <i>palustre</i> (ms)	
<i>Eucalyptus decipiens</i>	
<i>Eucalyptus decipiens</i> subsp. <i>decipiens</i>	
<i>Eucalyptus foecunda</i>	
<i>Eucalyptus gomphocephala</i>	
<i>Eucalyptus marginata</i>	
<i>Eucalyptus petrensis</i>	
<i>Eucalyptus rudis</i>	
<i>Eucalyptus todiana</i>	
<i>Eucalyptus gomphocephala</i>	
<i>Euchilopsis linearis</i>	
	MILT7
	MILT8
	MUCK1
	MUCK2
	PLINE1
	PLINE2
	PLINE3
	PLINE4
	PLINE5
	PLINE6
	PLINE7
	RAAF1
	RAAF2
	RAAF3
	SHE1
	SHE2
	SHE3
	SHE4
	SHE5
	SHE6
	WABL1
	WABL2
	WABL3
	WABL4
	WATR1
	WILB1
	WILB3
	WILB4
	WILB5
	WILB6
	WILB7
	WILB8
	WILB9
	WILB10
	WILB11
	WILB12
	WILB13
	YANI

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Euchiton sphaericus</i>	
* <i>Euphorbia terracina</i>	
<i>Exocarpos sparticus</i>	
? <i>Gahnia</i> sp.	
* <i>Galium murale</i>	
<i>Geranium retrorsum</i>	
<i>Geranium solanderi</i>	
* <i>Gladiolus caryophyllaceus</i>	
<i>Gladiolus</i> sp.	
<i>Glossostigma diandrum</i>	
<i>Gnaphosis tenuissima</i>	
<i>Gompholobium capitatum</i>	
<i>Gompholobium confertum</i>	
<i>Gompholobium knightianum</i>	
<i>Gompholobium scabrum</i>	
<i>Gompholobium shuttleworthii</i>	
<i>Gompholobium</i> sp.	
<i>Gompholobium tomentosum</i>	
<i>Gonocarpus ?pithyoides</i>	
<i>Gonocarpus cordiger</i>	
<i>Gonocarpus pithyoides</i>	
<i>Gonocarpus</i> sp.	
<i>Goodenia micrantha</i>	
<i>Gratiola pubescens</i>	
<i>Grevillea preissii</i>	
<i>Grevillea preissii</i> subsp. <i>preissii</i>	
<i>Grevillea vestita</i>	
<i>Grevillea vestita</i> subsp. <i>vestita</i>	
<i>Haemodorum laxum</i>	
	MIL77
	MIL78
	MUCK1
	MUCK2
	PLINE1
	PLINE2
	PLINE3
	PLINE4
	PLINE5
	PLINE6
	PLINE7
	RAAF1
	RAAF2
	RAAF3
	SHE1
	SHE2
	SHE3
	SHE4
	SHE5
	SHE6
	WABL1
	WABL2
	WABL3
	WABL4
	WATRI
	WILB1
	WILB3
	WILB4
	WILB5
	WILB6
	WILB7
	WILB8
	WILB9
	WILB10
	WILB11
	WILB12
	WILB13
	YANI

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Haemodorum paniculatum</i>	
<i>Haemodorum simplex</i>	
<i>Haemodorum</i> sp.	
<i>Haemodorum spicatum</i>	
<i>Hakea costata</i>	
<i>Hakea erinacea</i>	
<i>Hakea lissocarpa</i>	
<i>Hakea prostrata</i>	
<i>Hakea ruscifolia</i>	
<i>Hakea trifurcata</i>	
<i>Hakea varia</i>	
<i>Hardenbergia comptoniana</i>	
* <i>Heliophila pusilla</i>	
<i>Heliotropium curassavicum</i>	
<i>Hemandra pungens</i>	
<i>Hemigenia</i> ? <i>incana</i>	
<i>Hensmania turbinata</i>	
<i>Hibbertia</i> aff. <i>pachyrrhiza</i>	
<i>Hibbertia aurea</i>	
<i>Hibbertia crassifolia</i>	
<i>Hibbertia</i> aff. <i>helianthemoides</i>	
<i>Hibbertia huegelii</i>	
<i>Hibbertia hypericoides</i>	
<i>Hibbertia pachyrrhiza</i>	
<i>Hibbertia racemosa</i>	
<i>Hibbertia</i> sp.	
<i>Hibbertia spicata</i>	
<i>Hibbertia spicata</i> subsp. <i>leptotheca</i>	
<i>Hibbertia stellaris</i>	
	MILT7
	MILT8
	MUCK1
	MUCK2
	PLINE1
	PLINE2
	PLINE3
	PLINE4
	PLINE5
	PLINE6
	PLINE7
	RAAF1
	RAAF2
	RAAF3
	SHE1
	SHE2
	SHE3
	SHE4
	SHE5
	SHE6
	WABL1
	WABL2
	WABL3
	WABL4
	WATRI
	WILB1
	WILB3
	WILB4
	WILB5
	WILB6
	WILB7
	WILB8
	WILB9
	WILB10
	WILB11
	WILB12
	WILB13
	YANI

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
Hibbertia subvaginata	
*Holcus setiger	
Homaloscladium homalocarpum	
Hovea pungens	
Hovea trisperma	
Hyalosperma cotula	
Hybanthus calycinus	
Hydrocotyle alata	
Hydrocotyle blepharocarpa	
Hydrocotyle callicarpa	
Hydrocotyle hispidula	
Hydrocotyle pilifera subsp. glabrata	
Hydrocotyle sp.	
Hydrocotyle tetragonocarpa	
Hypocalymma angustifolium	
Hypocalymma xanthopetalum	
*Hypochoeris glabra	
Hypochoeris sp.	
Hypolaena exsulca	
Hypolaena pubescens	
Isolepis cernua	
Isolepis producta	
*Isolepis marginata	
Isolepis nodosa	
Isotoma hypocrateriformis	
Isotropis cuneifolia	
Isotropis sp.	
Jacksonia calcicola (ms)	
Jacksonia fasciculata	
MILT7	+
MILT8	+
MUCK1	+
MUCK2	+
PLINE1	+
PLINE2	+
PLINE3	+
PLINE4	+
PLINE5	+
PLINE6	+
PLINE7	+
RAAF1	+
RAAF2	+
RAAF3	+
SHE1	+
SHE2	+
SHE3	+
SHE4	+
SHE5	+
SHE6	+
WABL1	+
WABL2	+
WABL3	+
WABL4	+
WABL5	+
WABL6	+
WABL7	+
WABL8	+
WABL9	+
WABL10	+
WABL11	+
WABL12	+
WABL13	+
WABL14	+
WABL15	+
WABL16	+
WABL17	+
WABL18	+
WABL19	+
WABL20	+
WABL21	+
WABL22	+
WABL23	+
WABL24	+
WABL25	+
WABL26	+
WABL27	+
WABL28	+
WABL29	+
WABL30	+
WABL31	+
WABL32	+
WABL33	+
WABL34	+
WABL35	+
WABL36	+
WABL37	+
WABL38	+
WABL39	+
WABL40	+
WABL41	+
WABL42	+
WABL43	+
WABL44	+
WABL45	+
WABL46	+
WABL47	+
WABL48	+
WABL49	+
WABL50	+
WABL51	+
WABL52	+
WABL53	+
WABL54	+
WABL55	+
WABL56	+
WABL57	+
WABL58	+
WABL59	+
WABL60	+
WABL61	+
WABL62	+
WABL63	+
WABL64	+
WABL65	+
WABL66	+
WABL67	+
WABL68	+
WABL69	+
WABL70	+
WABL71	+
WABL72	+
WABL73	+
WABL74	+
WABL75	+
WABL76	+
WABL77	+
WABL78	+
WABL79	+
WABL80	+
WABL81	+
WABL82	+
WABL83	+
WABL84	+
WABL85	+
WABL86	+
WABL87	+
WABL88	+
WABL89	+
WABL90	+
WABL91	+
WABL92	+
WABL93	+
WABL94	+
WABL95	+
WABL96	+
WABL97	+
WABL98	+
WABL99	+
WABL100	+
WABL101	+
WABL102	+
WABL103	+
WABL104	+
WABL105	+
WABL106	+
WABL107	+
WABL108	+
WABL109	+
WABL110	+
WABL111	+
WABL112	+
WABL113	+
WABL114	+
WABL115	+
WABL116	+
WABL117	+
WABL118	+
WABL119	+
WABL120	+
WABL121	+
WABL122	+
WABL123	+
WABL124	+
WABL125	+
WABL126	+
WABL127	+
WABL128	+
WABL129	+
WABL130	+
WABL131	+
WABL132	+
WABL133	+
WABL134	+
WABL135	+
WABL136	+
WABL137	+
WABL138	+
WABL139	+
WABL140	+
WABL141	+
WABL142	+
WABL143	+
WABL144	+
WABL145	+
WABL146	+
WABL147	+
WABL148	+
WABL149	+
WABL150	+
WABL151	+
WABL152	+
WABL153	+
WABL154	+
WABL155	+
WABL156	+
WABL157	+
WABL158	+
WABL159	+
WABL160	+
WABL161	+
WABL162	+
WABL163	+
WABL164	+
WABL165	+
WABL166	+
WABL167	+
WABL168	+
WABL169	+
WABL170	+
WABL171	+
WABL172	+
WABL173	+
WABL174	+
WABL175	+
WABL176	+
WABL177	+
WABL178	+
WABL179	+
WABL180	+
WABL181	+
WABL182	+
WABL183	+
WABL184	+
WABL185	+
WABL186	+
WABL187	+
WABL188	+
WABL189	+
WABL190	+
WABL191	+
WABL192	+
WABL193	+
WABL194	+
WABL195	+
WABL196	+
WABL197	+
WABL198	+
WABL199	+
WABL200	+
WABL201	+
WABL202	+
WABL203	+
WABL204	+
WABL205	+
WABL206	+
WABL207	+
WABL208	+
WABL209	+
WABL210	+
WABL211	+
WABL212	+
WABL213	+
WABL214	+
WABL215	+
WABL216	+
WABL217	+
WABL218	+
WABL219	+
WABL220	+
WABL221	+
WABL222	+
WABL223	+
WABL224	+
WABL225	+
WABL226	+
WABL227	+
WABL228	+
WABL229	+
WABL230	+
WABL231	+
WABL232	+
WABL233	+
WABL234	+
WABL235	+
WABL236	+
WABL237	+
WABL238	+
WABL239	+
WABL240	+
WABL241	+
WABL242	+
WABL243	+
WABL244	+
WABL245	+
WABL246	+
WABL247	+
WABL248	+
WABL249	+
WABL250	+
WABL251	+
WABL252	+
WABL253	+
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WABL541	+
WABL542	+
WABL543	+
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WABL557	+
WABL558	+
WABL559	+
WABL560	+
WABL561	+
WABL562	+
WABL563	+
WABL564	+
WABL565	+
WABL566	+
WABL567	+
WABL568	+
WABL569	+
WABL57	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Lepidosperma gladiatum</i>	
<i>Lepidosperma longitudinale</i>	
<i>Lepidosperma pubisquamum</i>	
<i>Lepidosperma</i> sp.	
<i>Lepidosperma squamatum</i>	
<i>Lepidosperma tenue</i>	
<i>Leporella fimbriata</i>	
<i>Leptomeria cunninghamii</i>	
<i>Leptomeria empetriformis</i>	
<i>Leptomeria pauciflora</i>	
<i>Leptorhynchus scaber</i>	
<i>Leptospermum spinescens</i>	
<i>Leucopogon ?sprengeliioides</i>	
<i>Leucopogon conostephioides</i>	
<i>Leucopogon leptanthus</i>	
<i>Leucopogon oxycedrus</i>	
<i>Leucopogon parviflorus</i>	
<i>Leucopogon polymorphus</i>	
<i>Leucopogon propinquus</i>	
<i>Leucopogon racemosus</i>	
<i>Leucopogon</i> sp.	
<i>Leucopogon</i> sp. (indeterminant) M137-1	
<i>Leucopogon sprengeliioides</i>	
<i>Leucopogon squarrosus</i>	
<i>Levenhookia pusilla</i>	
<i>Levenhookia</i> sp.	
<i>Levenhookia stipitata</i>	
<i>Lobelia alata</i>	
<i>Lobelia heterophylla</i>	
MILT7	+
MILT8	+
MUCK1	+
MUCK2	
PLINE1	+
PLINE2	+
PLINE3	+
PLINE4	+
PLINE5	+
PLINE6	
PLINE7	+
RAAF1	+
RAAF2	+
RAAF3	+
SHE1	+
SHE2	+
SHE3	+
SHE4	
SHE5	+
SHE6	
WABL1	+
WABL2	+
WABL3	+
WABL4	+
WATRI	+
WLB1	+
WLB2	+
WLB3	+
WLB4	+
WLB5	+
WLB6	+
WLB7	+
WLB8	+
WLB9	+
WLB10	+
WLB11	
WLB12	+
WLB13	
VANI	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Lobelia</i> sp.	
<i>Lobelia tenuior</i>	
* <i>Lolium multiflorum</i> x <i>perenne</i>	
* <i>Lolium rigidum</i>	
<i>Lomandra</i> ? <i>brittanii</i>	
<i>Lomandra caespitosa</i>	
<i>Lomandra</i> ? <i>caespitosa</i>	
<i>Lomandra hermaphrodita</i>	
<i>Lomandra</i> ? <i>hermaphrodita</i>	
<i>Lomandra maritima</i>	
<i>Lomandra micrantha</i>	
<i>Lomandra nigricans</i>	
<i>Lomandra preissii</i>	
<i>Lomandra sericea</i>	
<i>Lomandra sonderi</i>	
<i>Lomandra</i> ? <i>sonderi</i>	
<i>Lomandra</i> sp.	
<i>Lomandra suaveolens</i>	
* <i>Lotus angustissimus</i>	
* <i>Lotus suaveolens</i>	
<i>Loxocarya cinerea</i>	
<i>Lyginia barbata</i>	
<i>Lyperanthus serratus</i>	
<i>Lysinema ciliatum</i>	
<i>Lysinema elegans</i>	
<i>Macarthuria apetalata</i>	
<i>Macrozamia riedlei</i>	
<i>Meeboldina cana</i>	
<i>Melaleuca cardiophylla</i>	
MILT7	+
MILT8	+
MUCK1	+
MUCK2	+
PLINE1	+
PLINE2	+
PLINE3	+
PLINE4	
PLINE5	
PLINE6	+
PLINE7	+
RAAF1	+
RAAF2	+
RAAF3	+
SHE1	+
SHE2	+
SHE3	+
SHE4	+
SHE5	
SHE6	+
WABL1	
WABL2	+
WABL3	
WABL4	+
WATRI	+
WILB1	+
WILB3	+
WILB4	+
WILB5	+
WILB6	+
WILB7	+
WILB8	+
WILB9	+
WILB10	+
WILB11	
WILB12	+
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WILB406	+
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WILB410	+
WILB411	+
WILB412	+
WILB413	+
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WILB415	+
WILB416	+
WILB417	+
WILB418	+
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WILB420	+
WILB421	+
WILB422	+
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WILB424	+
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WILB426	+
WILB427	+
WILB428	+
WILB429	+
WILB430	+
WILB431	+
WILB432	+
WILB433	+
WILB434	+
WILB435	+
WILB436	+
WILB437	+
WILB438	+
WILB439	+
WILB440</	

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Nemcia capitata</i>	
<i>Nemcia reticulata</i>	
<i>Notodanthonia</i> sp.	
<i>Nyctia floribunda</i>	
<i>Olax benthamiana</i>	
<i>Olearia axillaris</i>	
<i>Olearia rudis</i>	
<i>Oligochaetochilus vittata</i>	
<i>Opercularia echinocephala</i>	
<i>Opercularia</i> sp.	
<i>Opercularia spermacocea</i>	
<i>Opercularia vaginata</i>	
* <i>Orobanche minor</i>	
Orchidaceae sp.	
<i>Orthrosanthus laxus</i>	
<i>Oxalis perennans</i>	
? <i>Oxalis corniculata</i>	
<i>Ozothamnus cordatus</i>	
* <i>Parentucellia latifolia</i>	
<i>Parietaria debilis</i>	
<i>Patersonia occidentalis</i>	
<i>Patersonia</i> sp.	
* <i>Pelargonium capitatum</i>	
<i>Pelargonium littorale</i>	
* <i>Pentstemonis airoides</i>	
<i>Pericalymma ellipticum</i>	
<i>Pericalymma ellipticum</i> var. <i>ellipticum</i>	
<i>Persoonia comata</i>	
<i>Petrophile brevifolia</i>	
MILT7	+
MILT8	+
MUCK1	+
MUCK2	
PLINE1	+
PLINE2	+
PLINE3	+
PLINE4	+
PLINE5	+
PLINE6	
PLINE7	+
RAAF1	+
RAAF2	+
RAAF3	
SHE1	+
SHE2	+
SHE3	+
SHE4	
SHE5	+
SHE6	+
WABL1	+
WABL2	+
WABL3	
WABL4	+
WATRI	+
WLB1	+
WLB3	+
WLB4	+
WLB5	+
WLB6	+
WLB7	+
WLB8	+
WLB9	+
WLB10	+
WLB11	+
WLB12	
WLB13	+
YANI	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Scaevola thesioides</i>	
<i>Schoenolaena juncea</i>	
<i>Schoenus aff. brevisetis</i>	
<i>Schoenus asperocarpus</i>	
<i>Schoenus breviculmis</i>	
<i>Schoenus brevisetis</i>	
<i>Schoenus caespitius</i>	
<i>Schoenus ?caespitius</i>	
<i>Schoenus clandestinus</i>	
<i>Schoenus curvifolius</i>	
<i>Schoenus efoliatus</i>	
<i>Schoenus grandiflorus</i>	
<i>Schoenus lanatus</i>	
<i>Schoenus nanus</i>	
<i>Schoenus natans</i> (P4)	
<i>Schoenus odontocarpus</i>	
<i>Schoenus rigens</i>	
<i>Schoenus</i> sp.	
<i>Schoenus ?subfascicularis</i>	
<i>Scholtzia involucreta</i>	
<i>Scholtzia</i> sp.	
<i>Selaginella gracillima</i>	
<i>Senecio lautus</i>	
<i>Senecio lautus</i> subsp. <i>maritimus</i>	
<i>Senecio lautus</i> subsp. <i>dissectifolius</i>	
<i>Senecio</i> sp.	
* <i>Silene gallica</i>	
<i>Siloxerus humifusus</i>	
* <i>Solanum americanum</i>	
	MILT7
	MILT8
	MUCK1
	MUCK3
	PLINE1
	PLINE2
	PLINE3
	PLINE4
	PLINE5
	PLINE6
	PLINE7
	RAAF1
	RAAF2
	RAAF3
	SHE1
	SHE2
	SHE3
	SHE4
	SHE5
	SHE6
	WABL1
	WABL2
	WABL3
	WABL4
	WATRI
	WILB1
	WILB3
	WILB4
	WILB5
	WILB6
	WILB7
	WILB8
	WILB9
	WILB10
	WILB11
	WILB12
	WILB13
	YANI

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>*Solanum nigrum</i>	MILT7 +
<i>*Sonchus oleraceus</i>	MILT8 +
<i>Sowerbaea laxiflora</i>	MILT8 +
<i>Sphaerolobium</i> sp.	MILT7 +
<i>Sphaerolobium vimineum</i>	PLINE1 +
<i>Spyridium globulosum</i>	PLINE2 +
<i>Stachystemon axillaris</i> (P4)	PLINE3 +
<i>Stachhousta monogyna</i>	PLINE4 +
<i>Stachhousta</i> sp.	PLINE5 +
<i>*Stellaria media</i>	PLINE6 +
<i>Stenopetalum gracile</i>	PLINE7 +
<i>Stirlingia latifolia</i>	PLINE8 +
<i>Styloidium adpressum</i>	PLINE9 +
<i>Styloidium amoenum</i>	PLINE10 +
<i>Styloidium brunonianum</i> subsp. <i>brunonianum</i>	PLINE11 +
<i>Styloidium bulbiferum</i>	PLINE12 +
<i>Styloidium calcaratum</i>	PLINE13 +
<i>Styloidium crosscephalum</i>	PLINE14 +
<i>Styloidium diuroides</i> subsp. <i>diuroides</i>	PLINE15 +
<i>Styloidium inundatum</i>	PLINE16 +
<i>Styloidium junceum</i>	PLINE17 +
<i>Styloidium lateriticola</i>	PLINE18 +
<i>Styloidium longitubum</i> (P3)	PLINE19 +
<i>Styloidium macrocarpum</i>	PLINE20 +
<i>Styloidium maritimum</i>	PLINE21 +
<i>Styloidium minutum</i>	PLINE22 +
<i>Styloidium petiolare</i>	PLINE23 +
<i>Styloidium piliferum</i> subsp. <i>piliferum</i>	PLINE24 +
<i>Styloidium repens</i>	PLINE25 +
	PLINE26 +
	PLINE27 +
	PLINE28 +
	PLINE29 +
	PLINE30 +
	PLINE31 +
	PLINE32 +
	PLINE33 +
	PLINE34 +
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	PLINE36 +
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	PLINE472 +
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	PLINE478 +
	PLINE479 +
	PLINE480 +
	PLINE481 +
	PLINE482 +
	PLINE483 +
	PLINE484 +
	PLINE485 +
	PLINE486 +
	PLINE487 +
	PLINE488 +
	PLINE489 +
	PLINE490 +
	PLINE491 +
	PLINE492 +
	PLINE493 +
	PLINE49

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Sygidium schoenoides</i>	
<i>Sygidium</i> sp.	
<i>Synaphea petiolaris</i>	
<i>Synaphea</i> sp.	
<i>Synaphea spinulosa</i>	
<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>	
<i>Templetonia retusa</i>	
<i>Tersonia cyathiflora</i>	
* <i>Tetragonia decumbens</i>	
<i>Tetragonia capillaris</i>	
<i>Tetragonia octandra</i>	
<i>Thehymitra antennifera</i>	
<i>Thehymitra campanulata</i>	
<i>Thehymitra crinita</i>	
<i>Thehymitra flexuosa</i>	
<i>Thehymitra</i> sp.	
<i>Thomasia triphylla</i>	
<i>Threlkedia diffusa</i>	
<i>Thysanotus arenarius</i>	
<i>Thysanotus dichotomus</i>	
<i>Thysanotus manglesianus</i>	
<i>Thysanotus manglesianus</i> / <i>patersonii</i>	
<i>Thysanotus patersonii</i>	
<i>Thysanotus patersonii</i> / <i>manglesianus</i>	
<i>Thysanotus</i> sp.	
<i>Thysanotus sparteus</i>	
<i>Thysanotus thyrsoides</i>	
<i>Thysanotus ?thyrsoides</i>	
<i>Thysanotus triandrus</i>	
MILT7	
MILT8	+
MUCK1	
MUCK2	+
PLINE1	+
PLINE2	+
PLINE3	+
PLINE4	
PLINE5	+
PLINE6	+
PLINE7	
RAAF1	
RAAF2	+
RAAF3	
SHE1	+
SHE2	+
SHE3	+
SHE4	+
SHE5	+
SHE6	
WABL1	+
WABL2	
WABL3	+
WABL4	
WATRI	+
WLB1	+
WLB3	
WLB4	+
WLB5	+
WLB6	+
WLB7	+
WLB8	+
WLB9	+
WLB10	+
WLB11	+
WLB12	+
WLB13	+
YANI	+

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Verticordia nitens</i>	
<i>Verticordia ovalifolia</i>	
<i>Verticordia plumosa</i>	
<i>Villarsia capitata</i>	
* <i>Vulpia bromoides</i>	
* <i>Vulpia myuros</i>	
* <i>Vulpia</i> sp.	
* <i>Wahlenbergia capensis</i>	
<i>Wahlenbergia preissii</i>	
<i>Waitzia</i> sp.	
<i>Waitzia suaveolens</i> var. <i>suaveolens</i>	
<i>Westringia dampieri</i>	
<i>Wurmbea dioica</i>	
<i>Wurmbea monantha</i>	
<i>Wurmbea pygmaea</i>	
<i>Wurmbea</i> sp.	
<i>Xanthorrhoea gracilis</i>	
<i>Xanthorrhoea preissii</i>	
<i>Xanthosia ciliata</i>	
<i>Xanthosia huegelii</i>	
* <i>Zantedeschia aethiopica</i>	
	MILT7 +
	MILT8 +
	MUCK1 +
	MUCK2 + + +
	PLINE1 +
	PLINE2 + +
	PLINE3 +
	PLINE4 +
	PLINE5 +
	PLINE6
	PLINE7 +
	RAAF1 +
	RAAF2 +
	RAAF3 +
	SHE1 +
	SHE2 + +
	SHE3 +
	SHE4 +
	SHE5 +
	SHE6 +
	WABL1 +
	WABL2 +
	WABL3 +
	WABL4 +
	WATRI + +
	WILB1 +
	WILB3 +
	WILB4 + + +
	WILB5 +
	WILB6 + + +
	WILB7 +
	WILB8 +
	WILB9
	WILB10
	WILB11 +
	WILB12 +
	WILB13 +
	WILB14 +
	WILB15 +
	WILB16 +
	WILB17 +
	WILB18 +
	WILB19 +
	WILB20 +

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Acacia alata</i> var. <i>tetrantha</i>	
<i>Acacia barbinervis</i> subsp. <i>borealis</i>	
<i>Acacia benthamii</i> (P2)	
<i>Acacia cochlearis</i>	
<i>Acacia cyclops</i>	
<i>Acacia huegelii</i>	
<i>Acacia lasiocarpa</i>	
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	
<i>Acacia pulchella</i>	
<i>Acacia pulchella</i> var. <i>glaberrima</i>	
<i>Acacia rostellifera</i>	
<i>Acacia saligna</i>	
<i>Acacia sessilis</i>	
<i>Acacia</i> sp.	
<i>Acacia stenoptera</i>	
<i>Acacia truncata</i>	
<i>Acacia xanthina</i>	
<i>Acanthocarpus preissii</i>	
<i>Adenanthos barbiger</i>	
<i>Adenanthos cygnorum</i>	
<i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i>	
<i>Adenanthos obovatus</i>	
<i>Adenanthos</i> sp.	
<i>Agonis flexuosa</i>	
<i>Agonis linearifolia</i>	
<i>Agrostis avenacea</i>	
* <i>Aira caryophyllea</i>	
<i>Aira</i> sp.	
<i>Alexgeorgea nitens</i>	
	YAN2
	YAN3
	YAN4
	YAN5
	YAN6
	YAN8
	YAN9
	YAN10
	YAN11
	YAN12
	YAN13
	YAN14
	YAN15
	YAN16
	YAN17
	YAN18
	YAN19
	YAN20
	YAN21
	YAN22
	YAN23
	YAN24
	YAN25

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Allocasuarina fraseriana</i>	
<i>Allocasuarina humilis</i>	
<i>Alyogyne huegelii</i>	
<i>Amperea ericoides</i>	
<i>Amphibromus nervosus</i>	
<i>Amphipogon ? amphipogonoides</i>	
<i>Amphipogon ? strictus</i>	
<i>Amphipogon laguroides</i>	
<i>Amphipogon</i> sp.	
<i>Amphipogon turbinatus</i>	
* <i>Anagallis arvensis</i>	
<i>Anarthria gracilis</i>	
<i>Andersonia heterophylla</i>	
<i>Andersonia lehmanniana</i>	
<i>Andersonia lehmanniana</i> subsp. <i>lehmanniana</i>	
<i>Anigozanthos humilis</i>	
<i>Anigozanthos</i> sp.	
<i>Aotus gracillima</i>	
<i>Aotus procumbens</i>	
<i>Aphelia nutans</i>	
* <i>Arctotheca calendula</i>	
<i>Arctocornum preissii</i>	
<i>Astarea fascicularis</i>	
<i>Asteraceae</i> sp.	
<i>Asteridea pulverulenta</i>	
<i>Astroloma microcalyx</i>	
<i>Astroloma pallidum</i>	
<i>Astroloma xerophyllum</i>	
	YAN2
	YAN3
	YAN4
	YAN5
	YAN6
	YAN8
	YAN9
	YAN10
	YAN11
	YAN12
	YAN13
	YAN14
	YAN15
	YAN16
	YAN17
	YAN18
	YAN19
	YAN20
	YAN21
	YAN22
	YAN23
	YAN24
	YAN25

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
* <i>Atriplex prostrata</i>	
<i>Austrodanthonia occidentalis</i>	
<i>Austrodanthonia ?occidentalis</i>	
<i>Austrodanthonia</i> sp.	
<i>Austrostipa</i> sp.	
<i>Austrostipa ?macalpinei</i>	
<i>Austrostipa compressa</i>	
<i>Austrostipa flavescens</i>	
<i>Austrostipa macalpinei</i>	
<i>Austrostipa</i> sp.	
* <i>Avellinia michelii</i>	
<i>Azolla filiculoides</i>	
<i>Baeckea camphorosmae</i>	
<i>Baeckea robusta</i>	
<i>Baeckea</i> sp.	
<i>Banksia attenuata</i>	
<i>Banksia grandis</i>	
<i>Banksia ilicifolia</i>	
<i>Banksia littoralis</i>	
<i>Banksia menziesii</i>	
<i>Banksia prionotes</i>	
<i>Baumea juncea</i>	
<i>Baumea vaginalis</i>	
<i>Beaufortia elegans</i>	
<i>Beyeria cinerea</i>	
<i>Blennospora</i> sp.	
<i>Boronia purdieana</i>	
<i>Boronia purdieana</i> subsp. <i>purdieana</i>	
<i>Boronia ramosa</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Boronia ramosa</i> subsp. <i>ramosa</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Borya sphaerocephala</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Bossiaea eriocarpa</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Brachyscome iberidifolia</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Brachyscome</i> sp.	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Brassica</i> sp.	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
* <i>Briza maxima</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
* <i>Briza minor</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
* <i>Briza</i> sp.	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
* <i>Bromus diandrus</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
* <i>Bromus rubens</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
* <i>Bromus</i> sp.	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
? <i>Bromus</i> sp.	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Burchardia bairdii</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Burchardia umbellata</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Caesia</i> sp.	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Caladenia flava</i> subsp. <i>flava</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Caladenia latifolia</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Caladenia marginata</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Caladenia paludosa</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Caladenia</i> sp.	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Calandrinia brevipedata</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Calandrinia corrigioloides</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Calandrinia granulifera</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Calandrinia liniflora</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Calandrinia</i> sp.	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Calectasia cyanea</i> (P2)	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25
<i>Calothamnus lateralis</i>	YAN2, YAN3, YAN4, YAN5, YAN6, YAN8, YAN9, YAN10, YAN11, YAN12, YAN13, YAN14, YAN15, YAN16, YAN17, YAN18, YAN19, YAN20, YAN21, YAN22, YAN23, YAN24, YAN25

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Calothamnus quadrifidus</i>	
<i>Calothamnus sanguineus</i>	
<i>Calytrix angulata</i>	
<i>Calytrix flavescens</i>	
<i>Calytrix fraseri</i>	
<i>Calytrix sapphirina</i>	
<i>Calytrix strigosa</i>	
* <i>Carpobrotus edulis</i>	
<i>Carpobrotus virescens</i>	
<i>Caryophyllaceae</i> sp.	
<i>Cassynia flava</i>	
<i>Cassynia glabella</i>	
<i>Cassynia pomiformis</i>	
<i>Cassynia racemosa</i>	
<i>Cassynia</i> sp.	
<i>Casuarina obesa</i>	
<i>Caustis dioica</i>	
* <i>Centaurium erythraea</i>	
<i>Centrolepis aristata</i>	
<i>Centrolepis drummondiana</i>	
<i>Centrolepis mutica</i>	
<i>Centrolepis polygyna</i>	
* <i>Cerastium glomeratum</i>	
<i>Chamaescilla corymbosa</i>	
* <i>Chenopodium macrospermum</i>	
<i>Chordifex microcodon</i>	
<i>Chorizandra enodis</i>	
* <i>Cicendia filiformis</i>	
<i>Comesperma calymega</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Crassula ?colorata</i>	
<i>Crassula exserta</i>	
* <i>Crassula glomerata</i>	
* <i>Crassula natans</i>	
<i>Crassula</i> sp.	
<i>Cristonia biloba</i>	
<i>Croninia kingiana</i>	
<i>Cryptandra mutila</i>	
<i>Cryptandra pungens</i>	
<i>Cyanicula deformis</i>	
<i>Cyathochaeta avenacea</i>	
* <i>Cyperus tenellus</i>	
<i>Cyrtostylis robusta</i>	
<i>Cyrtostylis</i> sp.	
<i>Dampiera linearis</i>	
<i>Dampiera</i> sp.	
<i>Dasyogon bromeliifolius</i>	
<i>Dasyogon</i> sp.	
<i>Daucus glochidiatus</i>	
<i>Daviesia decurrens</i>	
<i>Daviesia decurrens</i> subsp. <i>decurrens</i> (ms)	
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> (ms)	
<i>Daviesia nudiflora</i>	
<i>Daviesia physodes</i>	
<i>Daviesia podophylla</i>	
<i>Daviesia quadrilatera</i>	
<i>Desmodcladus fasciculatus</i>	
<i>Desmodcladus flexuosus</i>	
<i>Dianella revoluta</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Ecdiocolea monostachya</i>	
* <i>Ehrharta calycina</i>	
* <i>Ehrharta longiflora</i>	
<i>Ehrharta</i> sp.	
<i>Eleocharis acuta</i>	
<i>Eleocharis</i> sp.	
<i>Elytranthera brunonis</i>	
<i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i>	
<i>Eremaea beaufortioides</i>	
<i>Eremaea brevifolia</i>	
<i>Eremaea pauciflora</i>	
<i>Eremaea pauciflora</i> var. <i>pauciflora</i>	
<i>Eremaea</i> sp.	
<i>Eremophila glabra</i>	
<i>Eriochilus dilatatus</i>	
* <i>Erodium botrys</i>	
* <i>Erodium cicutarium</i>	
* <i>Erodium moschatum</i>	
<i>Eryngium pinnatifidum</i> subsp. <i>palustre</i> (ms)	
<i>Eucalyptus decipiens</i>	
<i>Eucalyptus decipiens</i> subsp. <i>decipiens</i>	
<i>Eucalyptus foecunda</i>	
<i>Eucalyptus gomphocephala</i>	
<i>Eucalyptus marginata</i>	
<i>Eucalyptus petrensis</i>	
<i>Eucalyptus rudis</i>	
<i>Eucalyptus todtiana</i>	
<i>Eucalyptus gomphocephala</i>	
<i>Euchilopsis linearis</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Haemodorum paniculatum</i>	
<i>Haemodorum simplex</i>	
<i>Haemodorum</i> sp.	
<i>Haemodorum spicatum</i>	
<i>Hakea costata</i>	
<i>Hakea erinacea</i>	
<i>Hakea lissocarpa</i>	
<i>Hakea prostrata</i>	
<i>Hakea ruscifolia</i>	
<i>Hakea trifurcata</i>	
<i>Hakea varia</i>	
<i>Hardenbergia comptoniana</i>	
* <i>Heliophila pusilla</i>	
<i>Heliotropium curassavicum</i>	
<i>Hemandra pungens</i>	
<i>Hemigenia</i> ? <i>incana</i>	
<i>Hensmania turbinata</i>	
<i>Hibbertia</i> aff. <i>pachyrrhiza</i>	
<i>Hibbertia aurea</i>	
<i>Hibbertia crassifolia</i>	
<i>Hibbertia</i> aff. <i>helianthemoides</i>	
<i>Hibbertia huegelii</i>	
<i>Hibbertia hypericoides</i>	
<i>Hibbertia pachyrrhiza</i>	
<i>Hibbertia racemosa</i>	
<i>Hibbertia</i> sp.	
<i>Hibbertia spicata</i>	
<i>Hibbertia spicata</i> subsp. <i>leptotheca</i>	
<i>Hibbertia stellaris</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Hibbertia subvaginata</i>	
* <i>Holcus setiger</i>	
<i>Homalosciadium homalocarpum</i>	
<i>Hovea pungens</i>	
<i>Hovea trisperma</i>	
<i>Hyalosperma cotula</i>	
<i>Hybanthus calycinus</i>	
<i>Hydrocotyle alata</i>	
<i>Hydrocotyle blepharocarpa</i>	
<i>Hydrocotyle callicarpa</i>	
<i>Hydrocotyle hispidula</i>	
<i>Hydrocotyle pilifera</i> subsp. <i>glabrata</i>	
<i>Hydrocotyle</i> sp.	
<i>Hydrocotyle tetragonocarpa</i>	
<i>Hypocalymma angustifolium</i>	
<i>Hypocalymma xanthopetalum</i>	
* <i>Hypochoeris glabra</i>	
<i>Hypochoeris</i> sp.	
<i>Hypolaena exsulca</i>	
<i>Hypolaena pubescens</i>	
<i>Isolepis cernua</i>	
<i>Isolepis producta</i>	
* <i>Isolepis marginata</i>	
<i>Isolepis nodosa</i>	
<i>Isotoma hypocrateriformis</i>	
<i>Isotropis cuneifolia</i>	
<i>Isotropis</i> sp.	
<i>Jacksonia calcicola</i> (ms)	
<i>Jacksonia fasciculata</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Lepidosperma gladiatum</i>	
<i>Lepidosperma longitudinale</i>	
<i>Lepidosperma pubisquamum</i>	
<i>Lepidosperma</i> sp.	
<i>Lepidosperma squamatum</i>	
<i>Lepidosperma tenue</i>	
<i>Leporella fimbriata</i>	
<i>Leptomeria cunninghamii</i>	
<i>Leptomeria empetriformis</i>	
<i>Leptomeria pauciflora</i>	
<i>Leptorhynchus scaber</i>	
<i>Leptospermum spinescens</i>	
<i>Leucopogon ?sprengeliioides</i>	
<i>Leucopogon conostephioides</i>	
<i>Leucopogon leptanthus</i>	
<i>Leucopogon oxycedrus</i>	
<i>Leucopogon parviflorus</i>	
<i>Leucopogon polymorphus</i>	
<i>Leucopogon propinquus</i>	
<i>Leucopogon racemosus</i>	
<i>Leucopogon</i> sp.	
<i>Leucopogon</i> sp. (indeterminant) M137-1	
<i>Leucopogon sprengeliioides</i>	
<i>Leucopogon squarrosus</i>	
<i>Levenhookia pusilla</i>	
<i>Levenhookia</i> sp.	
<i>Levenhookia stipitata</i>	
<i>Lobelia alata</i>	
<i>Lobelia heterophylla</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE I

Species	Quadrats
<i>Lobelia</i> sp.	
<i>Lobelia tenuior</i>	
* <i>Lolium multiflorum x perenne</i>	
* <i>Lolium rigidum</i>	
<i>Lomandra ?brittanii</i>	
<i>Lomandra caespitosa</i>	+
<i>Lomandra ?caespitosa</i>	
<i>Lomandra hermaphrodita</i>	
<i>Lomandra ?hermaphrodita</i>	
<i>Lomandra maritima</i>	+
<i>Lomandra micrantha</i>	
<i>Lomandra nigricans</i>	
<i>Lomandra preissii</i>	
<i>Lomandra sericea</i>	
<i>Lomandra sonderi</i>	
<i>Lomandra ?sonderi</i>	
<i>Lomandra</i> sp.	
<i>Lomandra suaveolens</i>	
* <i>Lotus angustissimus</i>	
* <i>Lotus suaveolens</i>	
<i>Loxocarya cinerea</i>	
<i>Lyginia barbata</i>	
<i>Lyperanthus serratus</i>	
<i>Lysinema ciliatum</i>	
<i>Lysinema elegans</i>	
<i>Macarthuria apetala</i>	
<i>Macrozamia riedlei</i>	
<i>Meeboldina cana</i>	
<i>Melaleuca cardiophylla</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Melaleuca huegelii</i>	
<i>Melaleuca lateriflora</i>	
<i>Melaleuca preissiana</i>	
<i>Melaleuca raphiophylla</i>	
<i>Melaleuca scabra</i>	
<i>Melaleuca seriata</i>	
<i>Melaleuca</i> sp.	
<i>Melaleuca systena</i>	
<i>Melaleuca</i> ? <i>systena</i>	
<i>Melaleuca</i> aff. <i>systena</i>	
<i>Melaleuca teretifolia</i>	
<i>Melaleuca trichophylla</i>	
<i>Melaleuca</i> ? <i>trichophylla</i>	
<i>Melaleuca</i> aff. <i>trichophylla</i>	
<i>Melaleuca viminea</i>	
* <i>Melilotus indicus</i>	
<i>Mesomelaena graciliceps</i>	
<i>Mesomelaena pseudostygia</i>	
<i>Mesomelaena stygia</i>	
<i>Mesomelaena tetragona</i>	
<i>Microlaena stipoides</i>	
<i>Microlaena stipoides</i> var. <i>stipoides</i>	
<i>Microtis alba</i>	
<i>Millotia tenuifolia</i> var. <i>tenuifolia</i>	
* <i>Monopsis debilis</i>	
<i>Muehlenbeckia polybotrya</i>	
<i>Myoporum insulare</i>	
<i>Myrtacephalus helichrysoides</i>	
<i>Myrtaceae</i> sp.	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Nemcia capitata</i>	
<i>Nemcia reticulata</i>	
<i>Notodanthonia</i> sp.	
<i>Nyctzia floribunda</i>	
<i>Olaix benthamiana</i>	
<i>Olearia axillaris</i>	
<i>Olearia rudis</i>	
<i>Oligochaetochilus vittata</i>	
<i>Opercularia echinocephala</i>	
<i>Opercularia</i> sp.	
<i>Opercularia spermacocea</i>	
<i>Opercularia vaginata</i>	
* <i>Orobanche minor</i>	
Orchidaceae sp.	
<i>Orthrosanthus laxus</i>	
<i>Oxalis perennans</i>	
? <i>Oxalis corniculata</i>	
<i>Ozothamnus cordatus</i>	
* <i>Pareutocellia latifolia</i>	
<i>Parietaria debilis</i>	
<i>Paterosnia occidentalis</i>	
<i>Paterosnia</i> sp.	
* <i>Pelargonium capitatum</i>	
<i>Pelargonium littorale</i>	
* <i>Pentstemonis airoides</i>	
<i>Pericalymma ellipticum</i>	
<i>Pericalymma ellipticum</i> var. <i>ellipticum</i>	
<i>Persoonia comata</i>	
<i>Petrophile brevifolia</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Petrophile drummondii</i>	
<i>Petrophile linearis</i>	
<i>Petrophile macrostachya</i>	
<i>Petrophile semiruda</i>	
<i>Petrophile serruriae</i>	
<i>Petrophile</i> sp.	
* <i>Petrorhagia dubia</i>	
* <i>Phalaris minor</i>	
<i>Philothea spicata</i>	
<i>Philydrella pygmaea</i>	
<i>Phlebotocarya ciliata</i>	
<i>Phyllangium paradoxum</i>	
<i>Phyllanthus carycinus</i>	
<i>Phylloglossum drummondii</i>	
<i>Pimelea calcicola</i>	
<i>Pimelea ferruginea</i>	
<i>Pimelea floribunda</i>	
<i>Pimelea rosea</i>	
<i>Pimelea</i> sp.	
<i>Pimelea suaveolens</i>	
<i>Pimelea sulphurea</i>	
* <i>Pinus radiata</i>	
<i>Pithecarpa corymbulosa</i> (P2)	
<i>Pithecarpa</i> sp.	
<i>Platytheca galioides</i>	
* <i>Poa annua</i>	
<i>Poa drummondiana</i>	
<i>Poa poiformis</i>	
* <i>Poa pratensis</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Poaceae</i> sp.	
<i>Podolepis gracilis</i>	
<i>Podolepis lessonii</i>	
<i>Podotheca ?chrysantha</i>	
<i>Podotheca angustifolia</i>	
<i>Podotheca angustifolia/gnaphalioides ?</i>	
<i>Podotheca chrysantha</i>	
<i>Podotheca gnaphalioides</i>	
<i>Podotheca</i> sp.	
<i>Pogonolepis stricta</i>	
* <i>Polyopogon monspeliensis</i>	
<i>Poranthera ericoides</i>	
<i>Poranthera microphylla</i>	
<i>Prasophyllum drummondii</i>	
<i>Prasophyllum</i> sp.	
<i>Pteridium esculentum</i>	
<i>Pterostylis ?brevisepala</i> (ms)	
<i>Pterostylis</i> aff. <i>nana</i> SCP GJK/NG 1867cbs	
<i>Pterostylis recurva</i>	
<i>Pterostylis sanguinea</i>	
<i>Pterostylis</i> sp.	
<i>Pterostylis</i> sp. short sepals (W. JacksonBJ 259) (PN)	
<i>Ptilotus drummondii</i>	
<i>Ptilotus drummondii</i> var. <i>drummondii</i>	
<i>Ptilotus humilis</i> subsp. <i>humilis</i>	
<i>Ptilotus manglesii</i>	
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>	
<i>Ptilotus</i> sp.	
? <i>Puccinellia</i> sp.	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Scaevola thesioides</i>	
<i>Schoenolaena juncea</i>	
<i>Schoenus aff. brevisetis</i>	
<i>Schoenus asperocarpus</i>	
<i>Schoenus breviculmis</i>	
<i>Schoenus brevisetis</i>	
<i>Schoenus caespitius</i>	
<i>Schoenus ?caespitius</i>	
<i>Schoenus clandestinus</i>	
<i>Schoenus curvifolius</i>	
<i>Schoenus efoliatus</i>	
<i>Schoenus grandiflorus</i>	
<i>Schoenus lanatus</i>	
<i>Schoenus namus</i>	
<i>Schoenus natans (P4)</i>	
<i>Schoenus odontocarpus</i>	
<i>Schoenus rigens</i>	
<i>Schoenus sp.</i>	
<i>Schoenus ?subfascicularis</i>	
<i>Scholtzia involucrata</i>	
<i>Scholtzia sp.</i>	
<i>Selaginella gracillima</i>	
<i>Senecio lautus</i>	
<i>Senecio lautus</i> subsp. <i>maritimus</i>	
<i>Senecio lautus</i> subsp. <i>dissectifolius</i>	
<i>Senecio sp.</i>	
* <i>Silene gallica</i>	
<i>Siloxerus humifusus</i>	
* <i>Solanum americanum</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
* <i>Solanum nigrum</i>	
* <i>Sonchus oleraceus</i>	
<i>Sowerbaea laxiflora</i>	
<i>Sphaerolobium</i> sp.	
<i>Sphaerolobium vimineum</i>	
<i>Spyridium globulosum</i>	
<i>Stachystemon axillaris</i> (P4)	
<i>Stackhousia monogyna</i>	
<i>Stackhousia</i> sp.	
* <i>Stellaria media</i>	
<i>Stenopetalum gracile</i>	
<i>Stirlingia latifolia</i>	
<i>Stylidium adpressum</i>	
<i>Stylidium amoenum</i>	
<i>Stylidium brunonianum</i> subsp. <i>brunonianum</i>	
<i>Stylidium bulbiferum</i>	
<i>Stylidium calcaratum</i>	
<i>Stylidium crossocephalum</i>	
<i>Stylidium diuroides</i> subsp. <i>diuroides</i>	
<i>Stylidium inundatum</i>	
<i>Stylidium junceum</i>	
<i>Stylidium lateriticola</i>	
<i>Stylidium longitubum</i> (P3)	
<i>Stylidium macrocarpum</i>	
<i>Stylidium maritimum</i>	
<i>Stylidium miniatum</i>	
<i>Stylidium petiolare</i>	
<i>Stylidium piliferum</i> subsp. <i>piliferum</i>	
<i>Stylidium repens</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Sylichium schoenoides</i>	
<i>Sylichium</i> sp.	
<i>Synaphea petiolaris</i>	
<i>Synaphea</i> sp.	
<i>Synaphea spinulosa</i>	
<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>	
<i>Templetonia retusa</i>	
<i>Tersonia cyathiflora</i>	
* <i>Tetragonia decumbens</i>	
<i>Tetragonia capillaris</i>	
<i>Tetragonia octandra</i>	
<i>Thelymitra antennifera</i>	
<i>Thelymitra campanulata</i>	
<i>Thelymitra crinita</i>	
<i>Thelymitra flexuosa</i>	
<i>Thelymitra</i> sp.	
<i>Thomasia triphylla</i>	
<i>Threlkedia diffusa</i>	
<i>Thysanotus arenarius</i>	
<i>Thysanotus dichotomus</i>	
<i>Thysanotus manglesianus</i>	
<i>Thysanotus manglesianus</i> / <i>patersonii</i>	
<i>Thysanotus patersonii</i>	
<i>Thysanotus patersonii</i> / <i>manglesianus</i>	
<i>Thysanotus</i> sp.	
<i>Thysanotus sparteus</i>	
<i>Thysanotus thyrsoideus</i>	
<i>Thysanotus ?thyrsoideus</i>	
<i>Thysanotus triandrus</i>	
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	YAN6 +
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	YAN10 +
	YAN11 +
	YAN12 +
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	YAN17 +
	YAN18 +
	YAN19 +
	YAN20 +
	YAN21 +
	YAN22 +
	YAN23 +
	YAN24 +
	YAN25 +

APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Trachymene coerulea</i>	
<i>Trachymene pilosa</i>	
<i>Tribonanthes australis</i>	
<i>Tribonanthes longipetala</i>	
<i>Tricoryne elatior</i>	
<i>Tricoryne tenella</i>	
* <i>Trifolium arvense</i>	
* <i>Trifolium campestre</i> var. <i>campestre</i>	
* <i>Trifolium cernuum</i>	
* <i>Trifolium dubium</i>	
* <i>Trifolium</i> sp.	
<i>Triglochin centrocarpa</i>	
<i>Triglochin huegelii/linearis</i>	
<i>Triglochin linearis</i>	
<i>Triglochin muelleri</i>	
<i>Triglochin</i> sp.	
<i>Triglochin trichophora</i>	
<i>Tripterococcus brunonis</i>	
<i>Trithuria bibracteata</i>	
<i>Tymalium floribundum</i>	
* <i>Typha orientalis</i>	
* <i>Ursinia anthemoides</i>	
<i>Utricularia multifida</i>	
<i>Utricularia violacea</i>	
<i>Velleia trinervis</i>	
* <i>Vellereophyton dealbatum</i>	
<i>Verreauxia reinwardtii</i>	
<i>Verticordia densiflora</i>	
<i>Verticordia densiflora</i> var. <i>densiflora</i>	
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APPENDIX D: SPECIES DISTRIBUTION IN QUADRATS FOR THE MAPPING OF GNANGARA MOUND STAGE 1

Species	Quadrats
<i>Verticordia nitens</i>	
<i>Verticordia ovalifolia</i>	
<i>Verticordia plumosa</i>	
<i>Villarsia capitata</i>	
* <i>Vulpia bromoides</i>	
* <i>Vulpia myuros</i>	
* <i>Vulpia</i> sp.	
* <i>Wahlenbergia capensis</i>	
<i>Wahlenbergia preissii</i>	
<i>Waitzia</i> sp.	
<i>Waitzia suaveolens</i> var. <i>suaveolens</i>	
<i>Westringia dampieri</i>	
<i>Wurmbea dioica</i>	
<i>Wurmbea monantha</i>	
<i>Wurmbea pygmaea</i>	
<i>Wurmbea</i> sp.	
<i>Xanthorrhoea gracilis</i>	
<i>Xanthorrhoea preissii</i>	
<i>Xanthosia ciliata</i>	
<i>Xanthosia huegelii</i>	
* <i>Zantedeschia aethiopica</i>	
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	VAN5
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**APPENDIX E: RARE AND PRIORITY VASCULAR PLANT SPECIES POTENTIALLY
OCCURRING IN THE WIDER GNANGARA MOUND AREA, 2002**

CC - State Conservation Code

EPBC - Federal Conservation Code

Family	Species	SCC	EPBC
CYPERACEAE	<i>Cyathochaeta teretifolia</i>	P3	
	<i>Eleocharis keigheryi</i>	R	V
	<i>Schoenus griffinianus</i>	P2	
ANTHERICACEAE	<i>Chamaescilla gibsonii</i>	P3	
HAEMODORACEAE	<i>Conostylis bracteata</i>	P3	
	<i>Conostylis pauciflora</i> subsp. <i>euryrhipis</i>	P3	
	<i>Conostylis pauciflora</i> subsp. <i>pauciflora</i>	P4	
ORCHIDACEAE	<i>Caladenia huegelii</i>	R	E
	<i>Caladenia speciosa</i>	P4	
	<i>Cyanicula ixioides</i> subsp. <i>ixioides</i> ms	P4	
PROTEACEAE	<i>Adenanthos cygnorum</i> subsp. <i>chamaephyton</i>	P3	
	<i>Grevillea curviloba</i> subsp. <i>curviloba</i>	R	E
	<i>Grevillea curviloba</i> subsp. <i>incurva</i>	R	E
	<i>Grevillea evanescens</i>	P1	V
	<i>Grevillea thelemanniana</i>	P4	
BRASSICACEAE	<i>Lepidium pseudotasmanicum</i>	P4	
DROSERACEAE	<i>Drosera occidentalis</i> subsp. <i>occidentalis</i>	P4	
MIMOSACEAE	<i>Acacia anomala</i>	R	V
	<i>Acacia benthamii</i>	P2	
PAPILIONACEAE	<i>Dillwynia dillwynioides</i>	P3	
	<i>Isotropis cuneifolia</i> subsp. <i>glabra</i>	P2	
	<i>Jacksonia sericea</i>	P3	
POLYGALACEAE	<i>Comesperma acerosum</i>	P3	
EUPHORBIACEAE	<i>Stachystemon axillaris</i>	P4	
RHAMNACEAE	<i>Stenanthemum sublineare</i>	P2	
STERCULIACEAE	<i>Guichenotia tuberculata</i>	P3	
	<i>Lasiopetalum lineare</i>	P3	
	<i>Lasiopetalum membranaceum</i>	P3	
	<i>Thomasia triloba</i>	P3	

**APPENDIX E: RARE AND PRIORITY VASCULAR PLANT SPECIES POTENTIALLY
OCCURRING IN THE WIDER GNANGARA MOUND AREA, 2002**

CC - State Conservation Code

EPBC - Federal Conservation Code

Family	Species	SCC	EPBC
DILLENACEAE	<i>Hibbertia spicata</i> subsp. <i>leptothea</i>	P3	
MYRTACEAE	<i>Calytrix sylvana</i>	P4	
	<i>Chamelaucium</i> sp. Gingin (N.Marchant s.n. 4/11/88)	R	E
	<i>Darwinia</i> sp. Muchea (B.J.Keighery 2458)	R	
	<i>Eucalyptus argutifolia</i>	R	V
	<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>	P4	
	<i>Verticordia serrata</i> var. <i>linearis</i>	P3	
HALORAGACEAE	<i>Haloragis aculeolata</i>	P2	
	<i>Haloragis tenuifolia</i>	P3	
	<i>Myriophyllum echinatum</i>	P3	
APIACEAE	<i>Platysace ramosissima</i>	P3	
EPACRIDACEAE	<i>Conostephium minus</i>	P4	
LAMIACEAE	<i>Pityrodia axillaris</i>	P1	
GOODENIACEAE	<i>Scaevola paludosa</i>	P2	
STYLIDIACEAE	<i>Stylidium longitubum</i>	P3	