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## Vascular Flora of Woodmans Point Nature Reserve

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### Introduction

Woodmans Point Nature Reserve (number 42469) is a small nature reserve which forms part of the Woodmans Point Regional Park of 247 hectares of which some 92 hectares is bushland (Government of Western Australia, 2000). The largest bushland remnant is contained in the nature reserve.

### Methods

Several floristic sites were established in the reserve for the study of the floristics of the Swan Coastal Plain (Gibson. *et al*, 1994) The reserve has been extensively surveyed by foot traverse during all seasons for the reserve survey of the Swan Coastal Plain (Keighery, 1999). These surveys and Powell and Emberson (1981), were used to compile the flora list. The list is considered 90% complete.

### Vegetation

Structural vegetation of the area has been mapped by Powell and Emberson (1981) who show *Eucalyptus gomphocephala* open forest, *Callitris preissii* low closed forest, *Acacia rostellifera*/*Spyridium globulosum* tall open scrub and *Spinifex hirsutus*/*S. longifolius* grassland on the strand (largely outside the reserve). At the south-eastern margin of the nature reserve is a low open shrubland of *Melaleuca systema* with mixed *Acacia* and *Scaevola nitida* over bunch grasses not listed by Powell and Emberson (1981) as separate from the *Acacia* shrubland.

As noted in Keighery *et al* (1997) and Bushforever (Government of Western Australia, 2000) the reserve contains the Threatened ecological community of *Callitris preissii* low closed forest. It also contains a mature stand of Quindalup Tuart in very good to excellent condition, having not been grazed. This stand is also of considerable scenic value in the landscape.

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### Vascular Flora

581. the table of vascular flora occurrences of plants in these communities are listed under  
 9 art (*Eucalyptus gomphocephala* open forest, T), *Spinifex hirsutus*/*S. longifolius*  
 (9411) ssland on the strand (Dune), *Callitris preissii* low closed forest (Callp), *Acacia*  
 WOO *stellifera*/*Spyridium globulosum* tall open scrub (Acacia) and the shrubland of  
*elaleuca systema* (Heath).

Plants (weeds) only found along tracks are listed under these areas of disturbance.

### Discussion

A total of at least 161 species of vascular plant taxa have been recorded from within the boundaries of the Nature Reserve. Of these 67 are naturalized aliens. There are some very interesting records in the native species:

*Callitris preissii* is an uncommon species and aspects of its conservation are discussed in Keighery et al (1997).

*Diplolaena dampieri* is at its northern range limit on the mainland.

*Linum marginale* and *Opercularia hispidula* are uncommon on the Quindalup dunes, although we have recorded them frequently in the Quindalup wetlands of the Rockingham Beach Ridge Plain, which Woodmans Point abuts.

*Dodonaea hakettiana* a priority species normally found on Spearwood sands throughout its range.

Of the 67 naturalized aliens. The most serious weeds are:

*Asparagus asparagoides* (Bridal Creeper), a major control program on this highly invasive weed is in progress.

Grassy Weeds are widespread, especially the annuals, Wild Oats (*Avena* spp.), Brome Grasses (*Bromus* spp.) and Pussy Willow Grass (*Lagurus ovatus*). Perennial grasses (Buffalo (*Stenotaphrum secundatum*), Kikyuyu (*Pennisetum clandestinum*), Fountain Grass (*Pennisetum purpureum*) and Couch (*Cynodon dactylon*)) are in small highly disturbed areas but should be controlled as a matter of urgency to prevent them spreading further.

The woody weeds Victorian Tea Tree (*Leptospermum laevigatum*) and Pepper Trees, (*Schinus terebinthifolius*) are both potentially invasive, but are still present in limited areas.

Annual weeds that should be controlled after fire or soil disturbance are the Thistles (*Carduus pycnocephalus* and *Cirsium vulgare*) and Wild Turnip (*Brassica tournefortii*).

Another potentially serious weed present in low numbers is Geraldton Carnation Weed (*Euphorbia terracina*), this should be eradicated.

### References

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| VASCULAR FLORA OF WOODMANS POINT NATURE RESERVE |   |      |       |        |       |
|---|---|------|-------|--------|-------|
| Vegetation community recorded in                |   |      |       |        |       |
| TAXON   | T | Dune | Callp | Acacia | heath |
| Aizoaceae                                       |   |      |       |        |       |
| * <i>Carpobrotus edulis</i>                     | • |      |       |        |       |
| <i>Carpobrotus virescens</i>                    |   | •    | •     |        |       |
| * <i>Tetragonia decumbens</i>                   |   | •    |       | •      |       |
| Amaryllidaceae                                  |   |      |       |        |       |
| * <i>Pancratium maritimum</i>                   |   | •    |       |        |       |
| * <i>Narcissus tazetta</i>                      | • |      |       |        |       |
| Anacardiaceae                                   |   |      |       |        |       |
| * <i>Schinus terebinthifolius</i>               | • |      |       |        |       |
| Anthericaceae                                   |   |      |       |        |       |
| <i>Thysanotus patersonii</i>                    |   |      | •     | •      |       |
| <i>Thysanotus arenarius</i>                     | • |      |       | •      | •     |
| Asparagaceae                                    |   |      |       |        |       |
| * <i>Asparagus asparagoides</i>                 | • |      | •     | •      |       |
| Apiaceae  |   |      |       |        |       |
| <i>Daucus glochidiatus</i>                      | • |      |       |        |       |
| <i>Hydrocotyle callicarpa</i>                   | • |      |       |        |       |
| <i>Hydrocotyle diantha</i>                      | • |      |       |        |       |
| <i>Trachymene pilosa</i>                        | • | •    | •     | •      |       |
| Asphodelaceae                                   |   |      |       |        |       |
| * <i>Asphodelus fistulosus</i>                  | • |      |       | •      |       |
| * <i>Trachyandra divaricata</i>                 |   | •    |       |        |       |
| Asteraceae                                      |   |      |       |        |       |
| * <i>Arctotheca calendula</i>                   | • | •    |       |        |       |
| <i>Arctotheca populiifolia</i>                  |   | •    |       |        |       |
| <i>Arctotis stoechadifolia</i>                  |   | •    |       |        |       |
| * <i>Carduus pycnocephalus</i>                  | • |      | •     |        |       |
| * <i>Cirsium vulgare</i>                        | • |      |       |        |       |
| * <i>Conyza albida</i>                          | • |      | •     |        |       |
| * <i>Cotula bipinnata</i>                       | • |      |       |        |       |
| * <i>Dittrichia graveolens</i>                  |   |      | •     |        |       |
| * <i>Hedypnois rhagadioloides</i>               |   |      |       |        | •     |
| * <i>Hypochaeris glabra</i>                     | • |      |       | •      |       |
| * <i>Lactuca serriola</i>                       | • |      |       |        |       |

|                 |   |        |      |       |        |       |
|-----------------|---|--------|------|-------|--------|-------|
|                 | <i>Olearia axillaris</i>                        | •      | •    | •     | •      |       |
|                 | <i>Ozothamnus cordatus</i>                      |        | •    |       |        |       |
|                 | <i>Podotheca angustifolia</i>                   | •      |      |       |        |       |
| *               | <i>Reichardtia tingitiana</i>                   |        |      |       |        | •     |
|                 | <i>Senecio lautus</i><br>subsp <i>maritimus</i> | •      | •    | •     |        |       |
| *               | <i>Sonchus oleraceus</i>                        | •      | •    | •     | •      |       |
|                 |   |        |      |       |        |       |
| Brassicaceae    |   | T      | Dune | Callp | Acacia | Heath |
| *               | <i>Brassica tournefortii</i>                    |        | •    | •     |        |       |
| *               | <i>Cakile maritima</i>                          |        | •    |       |        |       |
| *               | <i>Heliophila pusilla</i>                       | •      | •    |       |        |       |
|                 |   |        |      |       |        |       |
| Campanulaceae   |   |        |      |       |        |       |
|                 | <i>Wahlenbergia preissii</i>                    | •      |      | •     |        | •     |
|                 |   |        |      |       |        |       |
| Caryophyllaceae |   | T      | Dune | Callp | Acacia | Heath |
| *               | <i>Arenaria serpyllifolia</i>                   |        |      | •     |        |       |
| *               | <i>Corrigiola littoralis</i>                    |        |      |       |        | •     |
| *               | <i>Cerastium glomeratum</i>                     | •      | •    |       |        |       |
| *               | <i>Minuartia mediterranea</i>                   | tracks |      |       |        |       |
| *               | <i>Petrohagia velutina</i>                      |        |      |       |        | •     |
|                 |   |        |      |       |        |       |
| Chenopodiaceae  |   |        |      |       |        |       |
|                 | <i>Atriplex isatidea</i>                        |        |      | •     |        |       |
|                 | <i>Rhagodia baccata</i>                         | •      | •    | •     | •      | •     |
|                 | <i>Salsola kali</i>                             |        |      | •     |        |       |
|                 | <i>Threlkeldia diffusa</i>                      | •      | •    |       | •      |       |
|                 |   |        |      |       |        |       |
| Crassulaceae    |   |        |      |       |        |       |
| *               | <i>Crassula alata</i>                           |        | •    |       |        | •     |
|                 | <i>Crassula colorata</i>                        | •      |      | •     |        |       |
| *               | <i>Crassula glomerata</i>                       |        | •    | •     |        |       |
|                 |   |        |      |       |        |       |
| Cuscutaceae     |   |        |      |       |        |       |
| *               | <i>Cuscuta epithymum</i>                        |        | •    |       |        |       |
|                 |   |        |      |       |        |       |
| Cupressaceae    |   |        |      |       |        |       |
|                 | <i>Callitris preissii</i>                       | •      | •    | •     | •      | •     |
|                 |   |        |      |       |        |       |
| Cyperaceae      |   | T      | Dune | Callp | Acacia | Heath |
|                 | <i>Isolepis nodosa</i>                          |        | •    |       |        |       |
|                 | <i>Lepidosperma gladiatum</i>                   | •      | •    | •     | •      | •     |
|                 | <i>Lepidosperma squamatum</i>                   | •      |      |       |        | •     |
|                 | <i>Lepidosperma ?tenue</i>                      | •      |      |       |        |       |
|                 | <i>Schoenus grandiflorus</i>                    | •      |      |       | •      | •     |

|                |                         |   |      |       |        |
|----------------|-------------------------|---|------|-------|--------|
| Dasypogonaceae |                         |   |      |       |        |
|                | Acanthocarpus preissii  | . | .    | .     | .      |
|                | Lomandra maritima       | . |      |       | .      |
| Epacridaceae   |                         |   |      |       |        |
|                | Acrotriche cordata      |   | .    | .     |        |
|                | Leucopogon australis    |   |      | .     |        |
|                | Leucopogon parviflorus  | . |      |       | .      |
|                | Leucopogon racemosus    | . |      | .     | .      |
| Euphorbiaceae  |                         |   |      |       |        |
|                | Adriana quadripartita   |   | .    |       |        |
| *              | Euphorbia peplus        | . | .    | .     |        |
| *              | Euphorbia terracina     |   | .    | .     |        |
|                | Phyllanthus calycinus   | . |      | .     | .      |
| Fumariaceae    |                         | T | Dune | Callp | Acacia |
| *              | Fumaria capreolata      | . | .    |       |        |
| Geraniaceae    |                         |   |      |       |        |
| *              | Erodium cicutarium      | . | .    | .     |        |
| *              | Pelargonium capitatum   | . | .    | .     |        |
| Goodeniaceae   |                         |   |      |       |        |
|                | Scaevola crassifolia    |   | .    |       |        |
|                | Scaevola nitida         | . |      | .     | .      |
| Haemodoraceae  |                         |   |      |       |        |
|                | Conostylis candicans    | . | .    | .     | .      |
| Iridaceae      |                         |   |      |       |        |
| *              | Chasmanthe floribunda   | . |      |       |        |
| *              | Romulea rosea           | . | .    |       |        |
| Juncaceae      |                         |   |      |       |        |
|                | Juncus kraussii         | . |      |       |        |
| Juncaginaceae  |                         |   |      |       |        |
|                | Triglochin centrocarpum |   |      |       | .      |
|                | Triglochin trichophorum |   | .    |       |        |
| Lamiaceae      |                         | T | Dune | Callp | Acacia |
|                | Hemiandra pungens       |   |      |       | .      |
| Lauraceae      |                         |   |      |       |        |
|                | Cassytha pubescens      |   |      | .     | .      |

|                                  |   |      |       |        |   |       |
|----------------------------------|---|------|-------|--------|---|-------|
| <i>Cassytha racemosa</i>         | • |      |       |        |   |       |
| Linaceae                         |   |      |       |        |   |       |
| <i>Linum marginale</i>           |   |      |       |        |   | •     |
| Lobeliaceae                      |   |      |       |        |   |       |
| <i>Lobelia tenuior</i>           | • |      |       |        |   | •     |
| Loganiaceae                      |   |      |       |        |   |       |
|                                  | T | Dune | Callp | Acacia |   | Heath |
| <i>Logania vaginalis</i>         | • |      |       |        |   | •     |
| Loranthaceae                     |   |      |       |        |   |       |
| <i>Ameyema miquelii</i>          | • |      |       |        |   | •     |
| Mimosaceae                       |   |      |       |        |   |       |
| <i>Acacia cochlearis</i>         | • | •    | •     | •      |   | •     |
| <i>Acacia cyclops</i>            | • |      | •     |        |   | •     |
| <i>Acacia lasiocarpa</i>         |   |      |       |        |   | •     |
| <i>Acacia rostellifera</i>       | • |      | •     | •      |   | •     |
| <i>Acacia saligna</i>            | • |      |       |        |   | •     |
| Myoporaceae                      |   |      |       |        |   |       |
|                                  | T | Dune | Callp | Acacia |   | Heath |
| <i>Eremophila glabra</i>         | • |      |       |        |   | •     |
| <i>Myoporum insulare</i>         | • | •    |       | •      |   |       |
| Myrtaceae                        |   |      |       |        |   |       |
| <i>Eucalyptus gomphocephala</i>  | • |      | •     |        |   |       |
| * <i>Leptospermum laevigatum</i> | • | •    |       |        |   |       |
| <i>Melaleuca huegelii</i>        | • |      | •     | •      |   | •     |
| <i>Melaleuca systema</i>         | • |      | •     | •      |   | •     |
| Onagraceae                       |   |      |       |        |   |       |
| * <i>Oenothera drummondii</i>    |   | •    |       |        |   | •     |
| * <i>Oenothera stricta</i>       |   | •    |       |        |   |       |
| Orchidaceae                      |   |      |       |        |   |       |
| <i>Caladenia latifolia</i>       | • |      |       | •      |   | •     |
| <i>Leptoceras menziesii</i>      |   |      |       | •      |   |       |
| <i>Cyrtostylis heugelii</i>      | • |      | •     |        | • | •     |
| Orobanchaceae                    |   |      |       |        |   |       |
|                                  | T | Dune | Callp | Acacia |   | Heath |
| <i>Orobanche australiana</i>     |   | •    |       |        |   |       |
| Oxalidaceae                      |   |      |       |        |   |       |
| * <i>Oxalis pres-caprae</i>      | • |      |       |        |   |       |

|                |                           |   |            |       |        |       |
|----------------|---------------------------|---|------------|-------|--------|-------|
| Papilionaceae  |                           |   |            |       |        |       |
|                | Gompholobium tomentosum   | . |            |       |        | .     |
|                | Hardenbergia comptoniana  | . | .          | .     | .      | .     |
|                | Kennedia prostrata        | . |            |       |        |       |
| *              | Medicago polymorpha       | . | .          |       |        |       |
| *              | Melilotis indica          |   | .          |       |        |       |
|                | Templetonia retusa        | . |            | .     |        |       |
| Phormiaceae    |                           |   |            |       |        |       |
|                | Dianella revoluta         | . |            |       |        | .     |
| Poaceae        |                           |   |            |       |        |       |
|                |                           | T | Dune       | Callp | Acacia | Heath |
| *              | Aira cupaniana            | . | .          |       |        |       |
| *              | Avena barbata             | . |            | .     |        |       |
| *              | Briza maxima              | . |            |       |        |       |
| *              | Briza minor               | . |            |       |        |       |
| *              | Bromus diandrus           |   |            | .     |        |       |
| *              | Cynodon dactylon          |   | tracks     |       |        |       |
| *              | Desmazeria rigidum        |   |            | .     |        |       |
|                | Dichelachne crinita       | . |            |       |        |       |
| *              | Ehrharta longiflora       | . |            | .     |        |       |
| *              | Eragrostis curvula        |   | roadverges |       |        |       |
| *              | Lagurus ovatus            | . | .          | .     |        |       |
| *              | Lolium rigidum            | . | .          | .     |        |       |
| *              | Pennisetum clandestinum   |   | tracks     |       |        |       |
| *              | Pennisetum purpureum      |   | tracks     |       |        |       |
| *              | Poa annua                 |   | tracks     |       |        |       |
|                | Poa drummondiana          |   |            |       |        | .     |
|                | Poa poiformis             | . |            |       |        |       |
|                | Poa porphyroclados        |   | .          |       |        |       |
|                | Spinifex hirsutus         |   | .          |       |        |       |
|                | Spinifex longifolius      |   | .          |       |        |       |
| *              | Stenotaphum secundatum    | . |            |       |        |       |
|                | Austrostipa flavescens    | . |            |       | .      | .     |
|                | Austrostipa elegantissima | . |            |       |        | .     |
| *              | Vulpia myuros             |   | .          | .     |        |       |
| Phytolaccaceae |                           |   |            |       |        |       |
|                |                           | T | Dune       | Callp | Acacia | Heath |
| *              | Phytolacca octandra       |   | .          | .     |        |       |
| Polygalaceae   |                           |   |            |       |        |       |
|                | Comesperma confertum      |   |            |       |        | .     |
|                | Comesperma integerrimum   | . |            | .     | .      | .     |
| Portulacaceae  |                           |   |            |       |        |       |
|                | Calandrinia calyprata     | . |            | *     |        |       |



|                  |                       |   |      |       |        |       |
|------------------|-----------------------|---|------|-------|--------|-------|
| Primulaceae      |                       |   |      |       |        |       |
| *                | Anagallis arvensis    | . | .    | .     |        |       |
| Proteaceae       |                       |   |      |       |        |       |
|                  | Dryandra lindleyana   | . |      |       |        |       |
|                  | Dryandra sessilis     | . |      |       |        |       |
|                  | Grevillea preissii    | . |      |       |        |       |
|                  | Hakea prostrata       | . |      |       |        | .     |
| Ranunculaceae    |                       |   |      |       |        |       |
|                  | Clematis linearifolia | . |      | .     | .      | .     |
| Restionaceae     |                       |   |      |       |        |       |
|                  |                       | T | Dune | Callp | Acacia | Heath |
|                  | Desmocladus asper     | . |      |       |        | .     |
| Rhamnaceae       |                       |   |      |       |        |       |
|                  | Spyridium globulosum  | . | .    | .     |        |       |
|                  | Trymalium ledifolium  | . |      |       |        | .     |
| Rubiaceae        |                       |   |      |       |        |       |
| *                | Galium aparine        |   |      | .     |        |       |
| *                | Galium murale         | . |      | .     |        |       |
|                  | Opercularia hispidula | . |      |       |        |       |
| Rutaceae         |                       |   |      |       |        |       |
|                  | Diplolaena dampieri   | . |      |       | .      | .     |
| Santalaceae      |                       |   |      |       |        |       |
|                  | Exocarpus sparteus    | . |      |       |        | .     |
|                  | Leptomeria ?sp        |   |      |       |        | .     |
|                  | Santalum acuminatum   | . |      | .     | .      | .     |
| Sapindaceae      |                       |   |      |       |        |       |
|                  |                       | T | Dune | Callp | Acacia | Heath |
| P                | Dodonaea hackettiana  |   |      |       |        | .     |
| Scrophulariaceae |                       |   |      |       |        |       |
| *                | Dischisma arenarium   |   | .    | .     |        |       |
| *                | Verbascum virgatum    | . |      |       |        |       |
| Solanaceae       |                       |   |      |       |        |       |
|                  | Anthocercis littorea  | . |      | .     |        | .     |

|                      |   |   |
|----------------------|---|---|
| * Nicotiana glauca   | • | • |
| * Physalis peruviana | • |   |
| * Solanum nigrum     | • |   |
| Solanum symonii      | • | • |
| Urticaceae           |   |   |
| Parietaria debilis   | • |   |