

## ENTERED ON GIS

**Name:** Vegetation Community Structures and Composition  
**Date:** 28/04/2006  
**Capture Author:** Thomas Leong / Ian Steward

### **Comments:**

#### *Polygon*

Created to match documented study area with high level of accuracy (only 4 of 6 lots identified)

#### Accuracy Levels:

- High = Document contained visual and or described spatial references easily copied, resulting in little or no polygon boundary errors
- Acceptable = Document contained visual references with complex boundaries, resulting in minor boundary errors
- Low = Document contained little or no visual references, resulting in polygon boundary errors

#### *Attributes*

Report Info – Captured without problems

Custodial/Contact – Captured without problems

Content – Appears to be part of larger document, purpose of incomplete document unclear

## November 2003 Vegetation Community Report.

### Vegetation communities within Lots 23, 1124, 4571, 4572 and 2253, Plantation Road, Capel.

- The remnant vegetation within these lots is of conservation value due the size of the area and linkage between three EPP-listed wetlands. The Department understands that six titles exist over this area and that none of them have any mechanism of vegetation protection.
- The vegetation on the southern side of Plantation road is of high conservation value with "Excellent" to "Pristine" vegetation health showing minimal impacts from grazing, past clearing, inappropriate fire regimes and weed invasion, it contains an occurrence of Declared Rare flora and several Priority listed species. This vegetation also forms a continuous vegetated landscape from Banksia woodland uplands to low seasonal wetlands as well as providing a vegetated linkage of two EPP listed wetlands.
- The vegetation on the northern side of Plantation road has been heavily impacted by grazing and weed invasion, it also appears as if some areas have been partly cleared. The area provides a vegetated linkage to a third EPP listed wetland with the only separation being Plantation road, the area also contains a known occurrence of a Threatened Ecological Community (TEC) type 10a "Shrublands on dry clay flats".

A majority of the vegetation within Location 1124 is heavily degraded but is of some conservation value in that it forms part of the larger remnant, contains seasonal wet vegetation and if managed appropriately should regenerate. Locations 4571 and 2252 combined with the seasonal wet creek system on the western extent of Location 1124 contains the best remnant vegetation on the northern side of Plantation road. The seasonal wet creek system has vegetation communities and assemblages that are not represented elsewhere in the areas inspected.

A broad break-up of the area inspected into vegetation communities would be as described below and as indicated on the attached vegetation community map. The attached species lists were predominantly collected from within the area of Locations 4571, 2253 and 23. Never the less all the locations as indicated in the attached map were inspected to ascertain the broad vegetation communities as mapped.

#### **Community 1 - Banksia Woodland on sandy uplands.**

The dominant vegetation structure of this community is *Banksia attenuata*, *Banksia illicifolia*, *Kunzea ericifolia* low closed forest, over *Melaleuca thymoides*, *Stirlingia latifolia*, *Calytrix flavescens*, *Patersonia occidentalis* open heath, over *Phlebocarya ciliata*, *Lyginia barbata* sedges, on grey sand upper slopes and uplands.

This Banksia woodland community appears to closely resemble community type 21b (southern *Banksia attenuata* woodlands) as recognised by the "Floristic survey of the southern Swan Coastal Plain" report by Gibson, Keighery, et.al (1994). This community is not a currently listed Threatened community.

Two occurrences of the Declared Rare Orchid species *Drakaea elastica* were recorded in the Banksia woodland in the northwest corner of Location 23.

**Community 2 - Seasonal Wetland community on the western boundary.**

The dominant vegetation structure of this community is *Kunzea ericifolia*, *Melaleuca preissiana*, *Nuytsia floribunda* low woodland, over *Hypocalymma angustifolia*, *Hypocalymma ericifolia*, *Pericalymma elliptica*, *Astartea fascicularis*, *Xanthorrhoea brunonis*, *Patersonia occidentalis* closed heath, over *Melanostachya ustulata*, *Baxteria australis*, *Dasyogon bromeliifolius*, *Phlebocarya ciliata* closed sedgeland, on grey sand soils seasonal wet depressions.

This vegetation community appears to closely resemble community type 4 (*Melaleuca preissiana* damplands) as recognised by the "Floristic survey of the southern Swan Coastal Plain" report by Gibson, Keighery, et.al (1994). This community is not a currently listed Threatened community.

**Community 3 - Seasonal Creek system on north side of Plantation road.**

The broad seasonally wet creekline contains several different vegetation communities, ranging from a dominant overstory of *Melaleuca teretifolia*, *Melaleuca raphiophylla*, *Melaleuca lateritia* low closed forest, to a *Eucalyptus marginata*, *Eucalyptus calophylla* open forest, to a *Melaleuca raphiophylla*, *Hakea varia*, *Astartea fascicularis*, *Melaleuca pauciflora* low open forest. The soils of this creekline range from grey sand to orange sandy loam. The vegetation health ranges from "Good" to "Excellent".

This seasonal creekline contains the known occurrence of the Threatened Ecological Community type 10a "Shrublands on dry clay flats".

**Community 4 - Jarrah/Marri upland community.**

The bulk of this vegetation community is found on the northern boundary and has a dominant vegetation structure of *Eucalyptus marginata*, *Eucalyptus calophylla*, *Agonis flexuosa* open forest, over *Cyathochaeta equitans*, *Juncus pallidus* open sedgeland, on predominantly orange sandy loam soils. This area has been heavily disturbed through heavy grazing, weed invasion and firewood cutting and would have a vegetation health of "Degraded" to "Good".

A relatively undisturbed version of this vegetation community may be that as found in a narrow strip along the southern boundary of Location 23.

Andrew Webb  
CALM Blackwood  
10<sup>th</sup> November 2003

- Lots, 4613, 4571, 2253, 1124,  
124, + 4572 plantation  
rd Capel, east of jnc with  
Capel-Tutunup  
rd.

### Vegetation Community Structures and Composition.

In order to provide the above comments the following preliminary vegetation survey and community structures were recognised.

A broad break-up of the area proposed for subdivision into vegetation communities would be as follows and as indicated on the attached vegetation community map. The attached species lists were predominantly collected from within the area of the proposed lots 1, 4 & 5, although all the area as indicated in the attached map was looked at to ascertain the broad vegetation communities as mapped.

#### Community 1 - Banksia Woodland on sandy uplands.

The dominant vegetation structure of this community is *Banksia attenuata*, *Banksia illicifolia*, *Kunzea ericifolia* low closed forest, over *Melaleuca thymoides*, *Stirlingia latifolia*, *Calytrix flavescens*, *Patersonia occidentalis* open heath, over *Phlebocarya ciliata*, *Lyginia barbata* sedges, on grey sand upper slopes and uplands.

This Banksia woodland community appears to closely resemble community type 21b (southern *Banksia attenuata* woodlands) as recognised by the "Floristic survey of the southern Swan Coastal Plain" report by Gibson, Keighery, et.al (1994). This community is not a currently listed Threatened community.

Two occurrences of the Declared Rare Orchid species *Drakea elastica* were recorded in the Banksia woodland on the north-west corner of the proposed Lot 4

#### Community 2 - Seasonal Wetland community on the western boundary.

The dominant vegetation structure of this community is *Kunzea ericifolia*, *Melaleuca preissiana*, *Nuytsia floribunda* low woodland, over *Hypocalymma angustifolia*, *Hypocalymma ericifolia*, *Pericalymma elliptica*, *Astartea fascicularis*, *Xanthorrhoea brunonis*, *Patersonia occidentalis* closed heath, over *Melanostachya ustulata*, *Baxteria australis*, *Dasypogon bromeliifolius*, *Phlebocarya ciliata* closed sedgeland, on grey sand soils seasonal wet depressions.

This vegetation community appears to closely resemble community type 4 (*Melaleuca preissiana* damplands) as recognised by the "Floristic survey of the southern Swan Coastal Plain" report by Gibson, Keighery, et.al (1994). This community is not a currently listed Threatened community.

#### Community 3 - Seasonal Creek system on north side of Plantation road.

The broad seasonally wet creekline contains several different vegetation communities, ranging from a dominant overstorey of *Melaleuca teretifolia*, *Melaleuca raphiophylla*, *Melaleuca lateritia* low closed forest, to a *Eucalyptus marginata*, *Eucalyptus calophylla* open forest, to a *Melaleuca raphiophylla*, *Hakea varia*, *Astartea fascicularis*, *Melaleuca pauciflora* low open forest. The soils of this creekline range from grey sand to orange sandy loam. The vegetation health ranges from "Good" to "Excellent"

This seasonal creekline contains the known occurrence of the Threatened Ecological Community type 10a "Shrublands on dry clay flats", from the species information available for that community it appears as if its extent is limited to within the proposed Lot 1, as indicated on the attached map.

#### Community 4 - Jarrah/Marri upland community.

The bulk of this vegetation community is found on the northern boundary and has a dominant vegetation structure of *Eucalyptus marginata*, *Eucalyptus calophylla*, *Agonis flexuosa* open forest, over *Cyathochaeta equitans*, *Juncus pallidus* open sedgeland, on predominantly orange sandy loam soils. This area has been heavily disturbed through heavy grazing, weed invasion and firewood cutting and would have a vegetation health of "Degraded" to "Good".

A relatively undisturbed version of this vegetation community may be that as found in a narrow strip along the southern boundary of the area proposed for subdivision.

10<sup>th</sup> November 2003

Andrew Webb  
CALM Blackwood

**Banksia Woodland Community on Sandy Uplands.**

**Taxon Name**

**Notes**

**Family: Anthericaceae**

Chamaescilla corymbosa  
Johnsonia lupulina  
Thysanotus manglesianus

**Family: Apiaceae**

Trachymene pilosa  
Xanthosia huegelii

**Family: Asteraceae**

\* Hypochaeris glabra  
Millotia tenuifolia  
Podotheca angustifolia  
\* Ursinia anthemoides  
Waitzia citrina

**Family: Casuarinaceae**

Allocasuarina humilis

**Family: Colchicaceae**

Burchardia umbellata

**Family: Crassulaceae**

Crassula colorata

**Family: Cyperaceae**

\* Isolepis marginata  
Schoenus clandestinus

**Family: Dasypogonaceae**

Bacteria australis  
Dasypogon bromeliifolius  
Lomandra caespitosa  
Lomandra hermaphrodita  
Lomandra sonderi

**Family: Dilleniaceae**

Hibbertia hypericoides  
Hibbertia racemosa  
Hibbertia vaginata

**Family: Droseraceae**

Drosera gigantea  
Drosera macrantha  
Drosera menziesii

**Family: Epacridaceae**

Andersonia caerulea  
Conostephium pendulum  
Styphelia tenuiflora  
Leucopogon sp.

**Family: Haemodoraceae**

Anigozanthos manglesii  
Phlebocarya ciliata

**Family: Iridaceae**

Patersonia occidentalis

**Family: Lamiaceae**

Hemiandra pungens

**Family: Lauraceae**

Cassytha racemosa

**Family: Loganiaceae**

Phyllangium paradoxum

**Family: Loranthaceae**

Nuytsia floribunda

**Family: Mimosaceae**

Acacia extensa  
Acacia huegelii  
Acacia pulchella  
Acacia semitrullata

P3

**Family: Myrtaceae**

Agonis flexuosa

Calytrix flavescens ? sterile  
 Eremaea pauciflora  
 Eucalyptus marginata  
 Hypocalymma robustum  
 Kunzea ericifolia  
 Melaleuca thymoides  
 Regelia ciliata

**Family: Orchidaceae**

Caladenia flava  
 Caladenia marginata  
 Drakaea elastica DRF  
 Elythranthera brunonis  
 Pyrorchis nigricans  
 Thelymitra crinita ?  
 Thelymitra graminea ?  
 Caladenia sp. dead flw  
 Paracaleana sp. sterile

**Family: Papilionaceae**

Bossiaea eriocarpa  
 Dillwynia uncinata  
 Gompholobium capitatum  
 Hovea trisperma  
 Jacksonia sparsa ms P4

**Family: Poaceae**

Amphipogon turbinatus  
 Austrodanthonia occidentalis  
 Austrostipa sp.  
 \* Briza maxima  
 \* Lolium rigidum  
 \* Pentaschistis airoides

**Family: Proteaceae**

Adenanthos meisneri  
 Banksia attenuata  
 Banksia ilicifolia  
 Persoonia longifolia  
 Petrophile linearis  
 Stirlingia latifolia

**Family: Restionaceae**

Anarthria prolifera  
 Hypolaena exsulca  
 Lyginia barbata

**Family: Stylidiaceae**

Levenhookia pusilla  
 Stylidium diversifolium  
 Stylidium piliferum  
 Stylidium repens  
 Stylidium schoenoides  
 Stylidium striatum

**Family: Tremandraceae**

Platytheca galioides

**Family: Xanthorrhoeaceae**

Xanthorrhoea brunonis  
 Xanthorrhoea gracilis  
 Xanthorrhoea preissii

**Family: Not Found**

~~Species unknown~~ sterile tall shrub, long terete leaves

\* = Alien species

*Conospermum teretifolium*

Seasonal Wet community on western Boundary.

**Taxon Name**

**Notes**

**Family: Anthericaceae**

Hodgsoniola junciformis  
Johnsonia lupulina  
Thysanotus manglesianus

**Family: Apiaceae**

Trachymene ornata

**Family: Asteraceae**

\* Arctotheca calendula  
\* Hypochaeris glabra  
\* Pseudognaphalium luteoalbum  
Siloxerus humifusus  
\* Ursinia anthemoides  
Waitzia citrina

**Family: Centrolepidaceae**

Aphelia brizula

**Family: Colchicaceae**

Burchardia umbellata

**Family: Crassulaceae**

Crassula sieberiana

**Family: Cyperaceae**

Evandra pauciflora  
Schoenus curvifolius  
Schoenus sp.

tail perennial

**Family: Dasypogonaceae**

Bacteria australis  
Dasypogon bromeliifolius  
Lomandra hermaphrodita  
Lomandra purpurea  
Lomandra sonderi

**Family: Dilleniaceae**

Hibbertia racemosa

**Family: Droseraceae**

Drosera gigantea  
Drosera glanduligera

**Family: Epacridaceae**

Leucopogon glabellus  
Leucopogon tenuis  
Lysinema ciliatum  
Andersonia sp.

small dense

**Family: Goodeniaceae**

Dampiera linearis

**Family: Haemodoraceae**

Phlebocarya ciliata

**Family: Iridaceae**

Patersonia occidentalis

**Family: Lauraceae**

Cassytha racemosa

**Family: Lobeliaceae**

Lobelia rhytidosperra

**Family: Loranthaceae**

Nuytsia floribunda

**Family: Mimosaceae**

Acacia semitrullata  
Acacia stenoptera

P3

**Family: Myrtaceae**

Actinodium cunninghamii  
Astartea fascicularis  
Calytrix flavescens  
Darwinia oederoides  
Eucalyptus marginata  
Hypocalymma angustifolium

aff.

?

Hypocalymma ericifolium	
Hypocalymma robustum	
Kunzea ericifolia	
Melaleuca preissiana	
Melaleuca thymoides	
Pericalymma ellipticum	
Regelia ciliata	
Verticordia lehmannii	P4
Baeckae sp.	fine small
<b>Family: Orchidaceae</b>	
Caladenia flava	
Caladenia longicauda subsp. longicauda	
Caladenia marginata	
Elythranthera brunonis	
Pterostylis recurva	
Thelymitra cornicina	?
Thelymitra crinita	?
Thelymitra graminea	?
<b>Family: Papilionaceae</b>	
Euchilopsis linearis	
Gompholobium capitatum	
Jacksonia sparsa ms	P4
Pultenaea ochreatea	
* Trifolium cernuum	
<b>Family: Poaceae</b>	
* Briza maxima	
* Pentaschistis airoides	
Austrostipa sp.	
<b>Family: Polygalaceae</b>	
Comesperma ciliatum	
<b>Family: Proteaceae</b>	
Adenanthos meisneri	
Adenanthos obovatus	
<b>Family: Restionaceae</b>	
Anarthria gracilis	
Anarthria laevis	
Anarthria prolifera	
Chordifex gracilior	
Hypolaena exsulca	
Lyginia barbata	
Melanostachya ustulata	
<b>Family: Rutaceae</b>	
Boronia tetragona	P3
Eriostemon spicatus	
<b>Family: Stylidiaceae</b>	
Levenhookia pusilla	
Stylidium diversifolium	
Stylidium junceum	
Stylidium piliferum	
Stylidium repens	
Stylidium scandens	
Stylidium schoenoides	
<b>Family: Xanthorrhoeaceae</b>	
Xanthorrhoea brunonis	
Xanthorrhoea preissii	

\* = Alien species

## Jarrah/Marri Upland Community.

Taxon Name	Notes
<b>Family: Anthericaceae</b>	
Agrostocrinum scabrum	
Caesia micrantha	
Chamaescilla corymbosa	
Sowerbaea laxiflora	
<b>Family: Asteraceae</b>	
* Arctotheca calendula	
* Hypochaeris glabra	
* Sonchus oleraceus	north block only
<b>Family: Centrolepidaceae</b>	
Centrolepis aristata	
<b>Family: Colchicaceae</b>	
Burchardia umbellata	
<b>Family: Cyperaceae</b>	
Cyathochaeta equitans	
<b>Family: Dasyopogonaceae</b>	
Baxteria australis	north block only
Dasyopogon bromelliifolius	
<b>Family: Droseraceae</b>	
Drosera gigantea	
Drosera glanduligera	
<b>Family: Goodeniaceae</b>	
Dampiera linearis	
<b>Family: Iridaceae</b>	
Patersonia occidentalis	
* Romulea rosea	north block only
<b>Family: Juncaceae</b>	
Juncus pallidus	
Juncus sp.	north block only
<b>Family: Lobeliaceae</b>	
Lobelia aiata	
<b>Family: Loranthaceae</b>	
Nuytsia floribunda	north block only
<b>Family: Mimosaceae</b>	
Acacia extensa	
Acacia pulchella	
<b>Family: Myrtaceae</b>	
Agonis flexuosa	
Eucalyptus calophylla	
Eucalyptus marginata	
Hypocalymma angustifolium	
Hypocalymma ericifolium	
Kunzea ericifolia	
Kunzea micrantha	
Melaleuca preissiana	
Pericalymma ellipticum	
<b>Family: Orchidaceae</b>	
Caladenia flava	north block only
Prasophyllum plumiforme	
<b>Family: Papilionaceae</b>	
Dillwynia uncinata	
<b>Family: Poaceae</b>	
* Avena barbata	
* Briza minor	
* Poaceae sp.	numerous annual weed spp.
<b>Family: Polygonaceae</b>	
* Rumex sp.	north block only

**Family: Proteaceae**

*Dryandra lindleyana*

*Hakea ruscifolia*

**Family: Ranunculaceae**

\* *Ranunculus muricatus* north block only

**Family: Stylidiaceae**

*Levenhookia pusilla*

**Family: Xanthorrhoeaceae**

*Xanthorrhoea brunonis*

*Xanthorrhoea gracilis*

*Xanthorrhoea preissii*

\* = Alien species

**Seasonal Creekline system, on north side of Plantation Road.**

Taxon Name	Notes
<b>Family: Anthericaceae</b>	
<i>Chamaescilla corymbosa</i>	
<i>Hodgsoniola junciformis</i>	
<i>Johnsonia lupulina</i>	
<b>Family: Apiaceae</b>	
<i>Trachymene pilosa</i>	
<i>Xanthosia huegelii</i>	
<b>Family: Asteraceae</b>	
* <i>Arctotheca calendula</i>	
<i>Cotula coronopifolia</i>	
<i>Hyalosperma pusillum</i>	
* <i>Hypochaeris glabra</i>	
<i>Siloxerus humifusus</i>	
<b>Family: Casuarinaceae</b>	
<i>Allocauarina fraseriana</i>	
<b>Family: Centrolepidaceae</b>	
<i>Aphelia brizula</i>	
<b>Family: Colchicaceae</b>	
<i>Burchardia umbellata</i>	
<b>Family: Cyperaceae</b>	
<i>Cyathochaeta avenacea</i>	
* <i>Isolepis marginata</i>	
<i>Lepidosperma longitudinale</i>	
<i>Mesomelaena tetragona</i>	
<i>Tetragonia octandra</i>	
<b>Family: Dasyopogonaceae</b>	
<i>Baxteria australis</i>	
<i>Lomandra sonderi</i>	
<b>Family: Dilleniaceae</b>	
<i>Hibbertia rhadinopoda</i>	
<i>Hibbertia stellaris</i>	
<b>Family: Droseraceae</b>	
<i>Drosera gigantea</i>	
<i>Drosera glanduligera</i>	
<i>Drosera sp.</i>	sterile rosette
<b>Family: Epacridaceae</b>	
<i>Conostephium pendulum</i>	
<b>Family: Gentianaceae</b>	
* <i>Cicendia filiformis</i>	
<b>Family: Goodeniaceae</b>	
<i>Scaevola calliptera</i>	
<b>Family: Haemodoraceae</b>	
<i>Conostylis aculeata</i>	
<i>Tribonanthes violacea</i>	
<b>Family: Iridaceae</b>	
* <i>Romulea rosea</i>	
* <i>Sparaxis bulbifera</i>	
<b>Family: Juncaceae</b>	
<i>Juncus pallidus</i>	
<b>Family: Lauraceae</b>	
<i>Cassytha racemosa</i>	
<b>Family: Lentibulariaceae</b>	
<i>Utricularia multifida</i>	
<b>Family: Lindsaeaceae</b>	
<i>Lindsaea linearis</i>	
<b>Family: Loranthaceae</b>	
<i>Nuytsia floribunda</i>	

- Family: Menyanthaceae**  
*Villarsia parnassifolia*
- Family: Mimosaceae**  
*Acacia pulchella*  
*Acacia stenoptera*
- Family: Myrtaceae**  
*Agonis sp. Coarse Agonis*(J.R.Wheeler 2939)  
*Astartea fascicularis* aff.  
*Beaufortia sparsa*  
*Calothamnus lateralis*  
*Eucalyptus calophylla*  
*Eucalyptus marginata*  
*Hypocalymma angustifolium*  
*Hypocalymma ericifolium*  
*Kunzea ericifolia*  
*Kunzea micrantha*  
*Melaleuca lateritia*  
*Melaleuca pauciflora*  
*Melaleuca preissiana*  
*Melaleuca raphiophylla*  
*Melaleuca teretifolia*  
*Pericalymma ellipticum*  
*Regelia ciliata*
- Family: Orchidaceae**  
*Elythranthera brunonis*
- Family: Papilionaceae**  
*Aotus gracillima*  
*Eutaxia virgata*  
*Pultenaea ochreatea*  
*Sphaerolobium drummondii*
- \* *Trifolium cernuum*
- Family: Phylodraceae**  
*Philydrella pygmaea*
- Family: Poaceae**  
*Amphipogon turbinatus*  
*Poaceae sp.* numerous annual weed spp.
- Family: Proteaceae**  
*Hakea ruscifolia*  
*Hakea varia*  
*Isopogon formosus subsp. dasylepis* P3
- Family: Restionaceae**  
*Anarthria laevis*  
*Anarthria prolifera*  
*Desmocladius fasciculatus*  
*Leptocarpus sp.* ? maybe Meeboldina
- Family: Thymelaeaceae**  
*Pimelea preissii*
- Family: Xanthorrhoeaceae**  
*Xanthorrhoea brunonis*  
*Xanthorrhoea gracilis*  
*Xanthorrhoea preissii*

\* = Alien species