

## SITE DESCRIPTION: JF2 – RESERVE 2145

**Boundary Definition:** Reserve boundary as per CAD Reserves 2006 Shapefile (DEC)

### **SECTION 1: LOCATION INFORMATION**

**Perth Biodiversity Project Site no.** JF2                      **Area (ha):** 27 ha (Percy Cullen Oval=11ha)

**Map no.** 2145, 1&2

**Other Names:** Percy Cullen Oval

**Local Authorities (Suburb):** City of Swan (Gidgegannup)

### **SECTION 2: REGIONAL INFORMATION**

#### **LANDFORMS AND SOILS**

Dwellingup (D) = Darling Plateau – Lateritic uplands

Yarragil (Yg) = Darling Plateau – Minor valleys

#### **VEGETATION AND FLORA**

##### **Vegetation Complexes**

Yarragil 1 (Yg1), Dwellingup 2 (D2)

##### **Ecological Vegetation Systems**

H16, JP4

#### **WETLANDS**

**Wetland Types:** Unlisted swampland on broad natural drainage line similar to Sw3 in description.

#### **THREATENED ECOLOGICAL COMMUNITIES**

N/A

### **SECTION 3: SPECIFIC SITE DETAIL**

**Landscape Features:** Mild slopes of a broad valley of a minor stream on the Darling Plateau

**Vegetation and Flora:** The vegetation comprises Jarrah – Marri Forest in the west grading to Wandoo and Marri Woodlands in the east with Powder bark wandoo on the breakaways. Extensive but localized Banksia Low Woodlands occur on sand sheets with heaths on shallow soils over granite rocks and as a common understorey in the Forest and Woodlands to the north and east.

#### **Structural Units**

H16= Minor valleys shallowly incised into the humid zone of the northern Darling Plateau with soils ranging from orange earths and humus podzols on the valley floor to red and yellow gravely duplex soils. Vegetation ranges from open woodland of *Eucalyptus marginata* subsp. *thalassica*, *E. calophylla* over a dense low shrub understorey through to wetlands dominated by *Melaleuca preissiana*, and *Banksia littoralis* and sedgeland dominated by *Meeboldina scariosa* and the introduced *Typha orientalis*.

JP4= Upland ridges and spurs in the subhumid zone with gravely duplex soils and lateritic outcrops. Open forest of *Eucalyptus marginata* subsp. *marginata* and *E. calophylla* with second storey of *Allocasuarina fraseriana*, *Banksia grandis* and *Persoonia elliptica*. Shrub and herb storey consists of *Adenanthos barbiger*, *Lechenaultia biloba*, *Hibbertia hypericoides* and *Nuerachne alopecurodea*.

**Vegetation Condition:** 20% very good 60% good 20% disturbed, Reserve is largely affected by dieback.

**Total Flora:** 174 taxa (Bennet 2006).

**Significant Flora:** *Tetralochea pilifera* (P3), *Templetonia drummondii* (P4), *Hibbertia Montana* (P4)

**Fauna:** Western Grey Kangaroos *Macropus fuliginosus* has been observed on site as have Echidnas *Tachyglossus aculeatus*, Chudich *Dasyurus geoffroyi* has found in the vicinity, Brush tailed possums *Trichosurus vulpecular* and Gould's Wattleed Bat *Chalinolobus gouldii* have been using nest boxes, Carnaby's Cockatoo *Calyptorhynchus latirostris*, and Baudin's Cockatoo site *Calyptorhynchus baudinii* (Both endangered Species) frequent this site. Western Brush Wallabies *Macropus Irma* were once plentiful in this area but have not been seen since the 60s

**Linkage:** Direct linkage to road reserves and remnants in surrounding private property. Links indirectly (landscape context) other regional reserves.

**Other Special Attributes:** Wetland is very unusual and warrants further investigation.

**SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE**

None listed.

**SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS**

**Criteria:** Strong community support including involvement from the local Primary School and the beginnings of a “Friends Group”. High fauna values especially in regard to both Species of endangered black cockatoo (this has been enhanced through the establishment and monitoring of nesting boxes. An excellent example of the transect D215 and an object lesson in the impacts and control of Jarrah dieback.

**Recommendation:** The development and implementation of a feral animal control program (fox) and a ongoing dieback control program.

**References**

Bennett, E., 2006, *Flora and Vegetation Reserve 2145 and Percy Cullen Oval Gidgegannup*. A report prepared for the City of Swan. Bennett Environmental Consulting Pty. Ltd., Kalamunda

Havel, J.J., and Mattiske, E.M., 2000, *Vegetation mapping of South West Forest Regions of Western Australia*. Department of Conservation and Land Management, Perth.