

SITE DESCRIPTION: JF4 – F. R. BERRY RESERVE

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

SECTION 1: LOCATION INFORMATION

Perth Regional Plant Biodiversity Jarrah Forest Reference Site no. JF4 Area (ha): 214

Map no. JF4, 1, 2 and 3

Other Names: N/A

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

SECTION 2: REGIONAL INFORMATION

LANDFORMS (HAVEL AND MATTISKE 2000)

Helena (H) = Darling Plateau - Major valleys combining slopes and floors

Dwellingup (D) = Darling Plateau - Lateritic uplands

Murray (My) = Darling Plateau – Major valleys combining slopes and floors

VEGETATION AND FLORA (HAVEL AND MATTISKE 2000)

Vegetation Complexes (JF 4 Map 1)

Murray 2 (My2), Helena 2 (He2) and Dwellingup 2 (D2)

Ecological Vegetation Systems (Havel and Mattiske 2000)

WS2, WM2 and JP4

WETLANDS

Wetland Types: Wooroloo Brook

THREATENED ECOLOGICAL COMMUNITIES

None listed in TEC GIS Shapefile (DEC 2006)

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: Deeply incised valley surrounding Wooroloo Brook with significant granite outcrops, scattered minor granite outcrops on hillsides, lateritic soils on well defined hills with some underlying grey clay under wandoo and on lower drainage lines

Vegetation and Flora: Open woodlands of Wandoo and Powderbark Wandoo grading through to Closed Woodlands of Jarrah and Marri on D2. Lithic herblands on granite outcrops grading through to closed shrublands. Open woodland of Blackbutt, Flooded gum and Melaleuca in riparian vegetation over a tall and diverse shrub layer. Limited vegetation mapping available (JF4 Map 2) (Woodman 2004).

Structural Units

Uplands - Granite outcrop communities (Lithic complex) of *Borya sphaerocephala*, *Chelianthes austrotenuifolia*, *Stylidiup spp.* *Nuerachne alopecuroidea* and low shrubland of *Hypocalymma angustifolia*, *Luecopogon pulchellus*, *Grevillia bipinnatifida* and *Phyllanthus calycinus*. Medium to tall shrublands dominated by *Hakea undulata*, *H. trifurcata*, *Calothamnus quadrifidus*, *Acacia pulchella* and *Trymalium ledifolium*. Medium open woodland of *Eucalyptus wandoo*, *E. accedens*, *E. calophylla* and occasional *E. marginata subsp. thalassica*. Wetland - creeklines of *E. rudis*, *E. calophylla* and *Melaleuca raphiophylla* over *H. trifurcata*, *Calothamnus quadrifidus*, *C. rupestris* and *Grevillea manglesii subsp. manglesii* (Woodman 2004).

Vegetation Condition: 50% excellent 40% very good 10% disturbed (Woodman 2004).

Total Flora: 125 native species and 11 weed species were recorded by Woodman (2004). Actual number of species will probably be much higher (Molloy 2007). General species list attached.

Significant Flora: There are two DRF recorded on this reserve, *Grevillea flexuosa* and *Thelymitra maniniorum*. *Calothamnus rupestris* a priority 4 species was also observed during site inspections (Molloy 2007).

Fauna: Evidence of Western Grey Kangaroo *Macropus fuliginosis*, and Echidna *Tachyglossus aculeatus* as well as introduced mammals Fox *Vulpes vulpes* and Rabbit *Oryctolagus cuniculus* was found during the site inspection. High levels of passerine activity were observed during the site inspection (Molloy 2007)

Linkage: Included in the City of Swan Assessment of Corridor Plan links to adjoining remnant vegetation and Wooroloo Brook riparian vegetation (Woodman 2004).

Other Special Attributes: Of local significance as a recreational reserve. Signage and facilities enhance public engagement and education values of this reserve. Close proximity to the Paruna

Sanctuary and the Walyunga and Avon Valley National Parks further enhance the value of this reserve from a regional biodiversity conservation perspective.

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

None listed.

References

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.

Molloy, S., (2007) Jarrah forest reference site field notes. Northern Transect. Unpublished.

Woodman Environmental Consulting Pty. Ltd. (2004), City of Swan Local Biodiversity and Green Plan, Flora and Fauna Assessment, Assessment of Corridor Plan, and Assessment of Priorities for further Investigation, RFQ Q22/03/TA. A report for the City of Swan.