

KOONDOOLA REGIONAL BUSHLAND

Boundary Definition: protected area boundary

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 201

Area (ha): bushland 123.5

Map no. 35

Map sheet series ref. no. 2034–II NE, 2034–II

NW

Other Names: Koondoola Open Space

Local Authorities (Suburb): Shire of Wanneroo (Koondoola)

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

Bassendean Dunes

Bassendean Sands (Qpb: S8)

Spearwood Dunes

Sands derived from Tamala Limestone (Qts: S7)

Wetlands (within the Spearwood Dunes)

Holocene Swamp Deposits (Qhw: Cps)

VEGETATION AND FLORA

Vegetation Complexes

Spearwood Dunes

Karrakatta Complex — Central and South

Floristic Community Types: *not sampled, type inferred

Supergroup 2: Seasonal Wetlands

*11 Wet forests and woodlands

Supergroup 3: Uplands centred on Bassendean Dunes and Dandaragan Plateau

20a *Banksia attenuata* woodlands over species-rich dense shrublands

WETLANDS

Wetland Types: sumpland

Natural Wetland Groups

Bassendean—Pinjarra transition OR Bassendean with fluvial features

Bennet Brook (B/P.4)

Bassendean Dunes

Jandakot (B.3)

Wetland Management Objectives: Conservation (2.3ha), Resource Enhancement

Swan Coastal Plain Lakes EPP: none identified

THREATENED ECOLOGICAL COMMUNITIES

Not assessed, Endangered (floristic community type 20a)

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: tall dune, vegetated wetland, vegetated uplands

Vegetation and Flora: limited survey (City of Wanneroo 1995b, Coalition for Wanneroo's Environment 1993, Gibson *et al.* 1994 (Koon 01–02), Wake 1995)

Structural Units: mapping (City of Wanneroo 1995b)

Uplands: *Banksia attenuata*, *B. menziesii* and *Allocasuarina fraseriana* Low Woodland to Low Open Woodland with scattered emergent *Eucalyptus marginata*; *Eremaea pauciflora*, *Melaleuca scabra* and *Leocopogon conostephioides* Shrubland

Wetlands: *Eucalyptus rudis* and *Melaleuca preissiana* Woodland; *Astartea* aff. *fascicularis* Heath over *Baumea articulata* and *Juncus pallidus* Sedgeland

Scattered Native Plants: not assessed

Vegetation Condition: mapping (City of Wanneroo 1995b)

>75% Excellent to Very Good, <25% Good to Degraded, with areas of severe localised disturbance

Total Flora: 175 native taxa, 17 weed taxa (Wake 1995) (estimated >70% expected flora)

Significant Flora: *Jacksonia sericea* (3); *Verticordia drummondii* (poorly conserved in the PMR, E. George pers. comm.), *Verticordia nitens* (most western occurrence in the PMR)

Fauna: structured survey for birds (34 species), native mammals (2 species), reptiles (21 species) and amphibians (Crypto Environmental Surveyors 1996). Significant bird species: category 1 (1) i.e.

Carnaby's Cockatoo, category 3 (2) i.e. Western Thornbill and Splendid Fairy-wren, and category 4 (6). Significant mammal species: Quenda and Western Brush Wallaby. Important site for Western Jewel Butterfly and Sciron Skipper (Williams *et al.* pers. comm. 1996).

Linkage: adjacent bushland to the south (Site 385, across road) and west; part of Greenways 12, 13 (Tingay, Alan & Associates 1998a); part of a regionally significant fragmented bushland/wetland linkage (Part A, Map 7)

Other Special Attributes: recommended to be declared as an A-class Nature Reserve for the protection of flora and fauna in Gibson *et al.* (1994); recommended for protection in study of City of Wanneroo (Trudgen 1996); Threatened or Poorly Reserved Plant Community (EPA 1994 GIS); National Trust of Australia (WA) Classification

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Not listed; Indicative place (AHC 2000 D); subject to protection under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, Diversity, Rarity, Scientific or evolutionary importance, General criteria for the protection of wetland, streamline and estuarine fringing and coastal vegetation

Recommendation: Site with Some Existing Protection; the existing care, control and management intent of the reserve is endorsed. The purpose of the reserve should be amended to include conservation and appropriate mechanisms applied in consultation with the management body (see Table 3, Volume 1).