

WHITEMAN PARK, WHITEMAN/WEST SWAN

Boundary Definition: protected area/proposed protected area boundary (Areas of bushland within the boundaries of the Site are not accurately mapped. The boundary has been drawn to include any unmapped bushland. Boundary adjusted from that in draft *Perth's Bushplan*.)

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 304

Area (ha): bushland 1547.9

Map no. 35, 36, 37, 42

Map sheet series ref. no. 2034-II NE

Other Names: Mussel Pool

Local Authorities (Suburb): Shire of Swan (Whiteman, West Swan)

System 6 (1983): M13, part M41 part System area bushland, only bushland described

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

Pinjarra Plain

Guildford Formation (Qpa: Mgs1) (Qha: Mc1)

Bassendean Dunes

Bassendean Sands (Qpb: S8)

Bassendean Dunes/Pinjarra Plain

Bassendean Sands over Guildford Formation (Qpb/Qpa: S10)

Wetlands (within the Bassendean Dunes/Pinjarra Plain)

Holocene Swamp Deposits (Qhw: Cps)

VEGETATION AND FLORA

Vegetation Complexes

Bassendean Dunes

Bassendean Complex — Central and South

Combinations of Bassendean Dunes/Pinjarra Plain

Southern River Complex

Floristic Community Types

Supergroup 2: Seasonal Wetlands

4 *Melaleuca preissiana* damplands

S17 *Eucalyptus rudis*/*Agonis linearifolia* wetlands in Bassendean Dunes

Supergroup 3: Uplands centred on Bassendean Dunes and Dandaragan Plateau

21c Low-lying *Banksia attenuata* woodlands or shrublands

22 *Banksia ilicifolia* woodlands

23a Central *Banksia attenuata* — *B. menziesii* woodlands

WETLANDS

Wetland Types: dampland, floodplain, palusplain, sumpland, artificial channel, creek

Natural Wetland Groups

Bassendean—Pinjarra transition OR Bassendean with fluvial features

Bennett Brook (B/P.4)

Wetland Management Objectives: Conservation (336.5ha), Resource Enhancement, Multiple Use

Swan Coastal Plain Lakes EPP: none identified

THREATENED ECOLOGICAL COMMUNITIES

Not assessed. Not determined

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: vegetated wetland, creek, vegetated uplands

Vegetation and Flora: limited survey (DEP 1996 (White 03–08), Gibson *et al.* 1994 (White 01–02), Griffin 1994 (WIS 01–02)); detailed survey (part Site — Arnold *et al.* 1991, Jackson *et al.* 1975, Mattiske & Associates 1989)

Structural Units: mapping (part Site — Arnold *et al.* 1991, Jackson *et al.* 1975, Mattiske & Associates 1989)

Uplands (mainly Bassendean Sands): *Eucalyptus calophylla* Woodland to Low Open Woodland, often with *E. marginata*, *Melaleuca preissiana*, *Banksia ilicifolia* or *B. grandis* and combinations of these, and generally over *Verticordia nitens* or mixed Open Low Heath to Low Shrubland; Low Open Forest to Low Open Woodland dominated by *Banksia attenuata*, *B. menziesii*, *B. ilicifolia*, *Allocasuarina fraseriana* or *Eucalyptus todtiana* and combinations of these

Wetlands: Open Forest to Low Open Forest of *Eucalyptus rudis*, *Melaleuca preissiana*, *M. raphiophylla* or *Banksia littoralis* and combinations; Heaths and Shrublands of *Melaleuca lateritia*, *Astartea aff. fascicularis*, *Pericalymma ellipticum* and others; Sedgeland of *Baumea ?vaginata*, *Lepidosperma longitudinale*, *Cyathochaeta teretifolia* and other species

Scattered Native Plants: not assessed

Vegetation Condition: >70% Very Good to Excellent, <30% Good to Degraded, with areas of severe localised disturbance

Total Flora: 340 native taxa, 76 weed taxa (Mattiske & Associates 1989; with additions from DEP 1996 (White 03–08), Gibson *et al.* 1994 (WHITE 01–02) and pers. comm. D. Bright, H. Gratte, J. Wann, T. Comber, A. Brown, WA Native Orchid Study and Conservation Group, Wildflower Society of WA) (estimated >85% expected flora)

Significant Flora: *Cyathochaeta teretifolia* (3), *Aotus cordifolia* (3), *Isopogon drummondii* (3) (Mattiske & Associates 1989), *Stachystemon axillaris* (4), *Conostephium minus* (4), *Verticordia lindleyi* subsp. *lindleyi* (4); *Astroloma xerophyllum*, *Eremaea fimbriata*, *Verticordia nitens*, *Conospermum triplinervium*, *Boronia purdieana*, *Burchardia bairdiae*, *Drosera macrantha* (swamp form)

Fauna: structured survey for birds (103 species), native mammals (6 species), reptiles (30 species) and amphibians (8 species) (Jackson *et al.* 1975 and Arnold *et al.* 1991). Rich assemblage of insectivorous and nectarivorous birds. Significant bird species: category 1 (2), category 3 (13) and category 4 (13). Significant mammal species: Ash Grey Mouse, Honey Possum, Quenda and Western Brush Wallaby. Rich reptile assemblage including a dragon (*Tympanocryptis adelaidensis*), Black-headed Snake (*Parasuta gouldii*), a gecko (*Diplodactylus alboguttatus*), skink lizards (*Acritoscincus trilineatum* and *Ctenotus gemmula*), Rosenberg's Monitor (*Varanus rosenbergi*) and Black-striped Snake (*Simoselaps calonotos*)

Linkage: adjacent native vegetation to the south (Site 305) and west (Site 198 across road); part of Greenways 32, 39, 21, 40, 38 (Tingay, Alan & Associates 1998a); part of a regionally significant fragmented bushland/wetland linkage (Part A, Map 7)

Other Special Attributes: rich and diverse flora and fauna, with a relatively large number of significant species, including the largest known stands of the significant sedge *Cyathochaeta teretifolia*; contains part of the channel (Bennett Brook) recommended for conservation by Semeniuk, V&C Research Group (1992); contains area of significant undeveloped remnant vegetation and/or regional open space identified by Semeniuk, V&C Research Group (1992); contains 956m of regionally significant river (WRC 1996a GIS)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

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 vegetation and coastal vegetation, Criteria not relevant to determination of regional significance, but which may be applied when evaluating areas having similar values

Recommendation: Part A: Site with Some Existing Protection; the existing purpose, care, control and management of this Site is endorsed. Part B: Proposed Parks and Recreation Reservation (see Table 3, Volume 1).