

## HARTFIELD PARK BUSHLAND, FORRESTFIELD

**Boundary Definition:** 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.)

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

**Bush Forever Site no.** 320

**Area (ha):** bushland 73.6

**Map no.** 49

**Map sheet series ref. no.** 2033–I NE, 2034–II SE, 2133–IV NW, 2134–III SW

**Other Names:** Submission Area 242; Location 68 (Keighery, BJ, and Trudgen 1992)

**Local Authorities (Suburb):** Shire of Kalamunda (Forrestfield, Wattle Grove)

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

#### **LANDFORMS AND SOILS**

##### **Pinjarra Plain**

Guildford Formation (Qpa: Mgs1) (Qha: Ms4)

##### **Bassendean Dunes**

Bassendean Sands (Qpb: S8)

##### **Bassendean Dunes/Pinjarra Plain**

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

#### **VEGETATION AND FLORA**

##### **Vegetation Complexes**

###### **Combinations of Bassendean Dunes/Pinjarra Plain**

Southern River Complex

##### **Floristic Community Types**

###### **Supergroup 2: Seasonal Wetlands**

S2 Northern *Pericalymma ellipticum* dense low shrublands (most southern representation)

###### **Supergroup 3: Uplands centred on Bassendean Dunes and Dandaragan Plateau**

20a *Banksia attenuata* woodlands over species-rich dense shrublands (in area of most southern representation)

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

#### **WETLANDS**

**Wetland Types:** palusplain, creek, artificial channel

##### **Natural Wetland Groups**

###### **Darling Plateau**

Walyunga (D.1)

###### **Bassendean—Pinjarra transition OR Bassendean with fluvial features**

Mungala (B/P.2)

**Wetland Management Objectives:** Conservation (68.4ha), Resource Enhancement, Multiple Use

**Swan Coastal Plain Lakes EPP:** none identified

#### **THREATENED ECOLOGICAL COMMUNITIES**

Not assessed, Not determined, Endangered (floristic community type 20a)

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

**Landscape Features:** vegetated wetland, vegetated uplands

**Vegetation and Flora:** limited survey (DEP 1996 (Hart 01–04), Keighery, BJ, and Trudgen 1992, Shire of Kalamunda 1996)

**Structural Units:** mapping (Keighery, BJ, and Trudgen 1992, Shire of Kalamunda 1996)

Uplands: *Eucalyptus calophylla* and *E. marginata* Low Forest; *Eucalyptus calophylla* Low

Woodland; Low Woodlands dominated by *Eucalyptus marginata*, *Banksia attenuata*, *B. menziesii* and *Allocasuarina fraseriana* and combinations of these; *Banksia attenuata* and *B. menziesii* Low Woodland

Wetlands: *Eucalyptus rudis* and *E. calophylla* Low Woodland; *Melaleuca preissiana* Open Low Woodland; Closed to Open Low Heath dominated by *Hypocalymma angustifolium*, *Pericalymma ellipticum*, *Hakea sulcata* and combinations of these with scattered clumps of *Actinostrobilus pyramidalis* and *Beaufortia squarrosa*; scattered clumps of *Melaleuca viminea* over *Meeboldinia coangustatus* Closed Sedgeland

**Vegetation Condition:** >75% Excellent to Very Good, <25% Good to Degraded, with areas of severe localised disturbance (Shire of Kalamunda 1996)

**Total Flora:** 119 native taxa, 8 weeds (plot-generated list only) (DEP 1996)

**Significant Flora:** *Conospermum undulatum* (R); *Isopogon drummondii* (3), *Lambertia multiflora* var. *darlingensis* (3), *Stachystemon axillaris* (4), *Verticordia lindleyi* subsp. *lindleyi* (4); *Beaufortia squarrosa*, *Dasyopogon obliquifolius*, *Hakea conchifolia*, *Xanthorrhoea drummondii*

**Fauna:** structured survey for birds (25 species), native mammals (1 species), reptiles (11 species) and amphibians (3 species) (Harvey *et al.* 1997). Significant bird species: category 4 (3). Significant mammal species: Quenda (Friend 1996 D)

**Linkage:** adjacent bushland to the south (canopy across road to Site 387) and west; part of Greenways 101, 102, 98 (Tingay, Alan & Associates 1998a); part of a regionally significant fragmented bushland/wetland linkage (Part A, Map 7)

**Other Special Attributes:** recommended to be managed as a flora conservation (Keighery, BJ, and Trudgen 1992); Threatened or Poorly Reserved Plant Community (EPA 1994 GIS); majority Site Category One Area Middle Canning Catchment Study (Evangelisti & Associates *et al.* 1995); contains plant communities representative of the eastern side of the Swan Coastal Plain

#### ***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

**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).