

CARDUP NATURE RESERVE AND ADJACENT BUSHLAND CARDUP

Boundary Definition: protected area/bushland (part taken to cadastre) boundary

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 352

Area (ha): bushland 86.2

Map no. 67, 73

Map sheet series ref. no. 2033–I SE, 2033–II NE

Other Names: Reserve C2457 Mundijong; Location 11 (Keighery, BJ, and Trudgen 1992)

Local Authorities (Suburb): Shire of Serpentine-Jarrahdale (Cardup)

Includes CALM Managed Land: Reserve 2457 (Conservation of Flora and Fauna)

System 6 (1983): M83 area of bushland goes beyond System area boundaries, all bushland described

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

Foothills

Colluvial Deposits (Qc: Csg)

Pinjarra Plain

Guildford Formation (Qpa: Cs)

Bassendean Dunes

Bassendean Sands (Qpb: S8)

VEGETATION AND FLORA

Vegetation Complexes

Pinjarra Plain

Guildford Complex

Floristic Community Types

Supergroup 1: Foothills/Pinjarra Plain

3b *Eucalyptus calophylla* — *E. marginata* woodlands on sandy clay soils

Supergroup 2: Seasonal Wetlands

6 Weed dominated wetlands on heavy soils

Supergroup 3: Uplands centred on Bassendean Dunes and Dandaragan Plateau

20b Eastern *Banksia attenuata* and/or *Eucalyptus marginata* woodlands

21a Central *Banksia attenuata* — *Eucalyptus marginata* woodlands

WETLANDS

Wetland Types: palusplain, creek, sumpland (wetland not previously described, Keighery, GJ, and Keighery 1993a)

Natural Wetland Groups

Pinjarra Plain

Keysbrook (P.1)

Wetland Management Objectives: Multiple Use, Conservation (Keighery, GJ, and Keighery 1993a), not assessed

Swan Coastal Plain Lakes EPP: none identified

THREATENED ECOLOGICAL COMMUNITIES

Not assessed, Endangered (floristic community type 20b), Vulnerable (floristic community type 3b)

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: vegetated upland, vegetated wetland, creek

Vegetation and Flora: limited survey (Gibson *et al.* 1994 (Card 01–13), Keighery, BJ, and Trudgen 1992); detailed survey (part Site — Keighery, GJ, and Keighery 1993a (Cardup Nature Reserve))

Structural Units: mapping (Keighery, GJ, and Keighery 1993a, Keighery, BJ, and Trudgen 1992)

Uplands: Woodlands dominated by *Eucalyptus calophylla* and/or *E. marginata*; *Banksia attenuata*, *B. menziesii* and *B. grandis* Woodland to Open Forest with scattered to co-dominant *Xylomelum occidentale* and *Nuytsia floribunda*; *Allocasuarina humilis*, *Hakea ruscifolia*, *Hibbertia hypericoides* Low Shrubland

Wetlands: *Melaleuca preissiana* Low Woodland; *Mesomelaena tetragona* and *Hypolaena exsulca* Sedgeland

Scattered Native Plants: not assessed

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

Total Flora: 253 native taxa, 47 weeds (Keighery, GJ, and Keighery 1993b) (estimated >90% expected flora)

Significant Flora

Eryngium pinnatifidum subsp. *palustre* ms (2), *Lambertia multiflora* var. *darlingensis* (3), *Drosera macrantha* (BJK and NG 228), *Johnsonia pubescens* subsp. *cygnorum* (known from only two other bushland areas), *Dasyogon obliquifolius* (most southern record), *Dasyogon obliquifolius*, *D. bromeliifolius* (co-occurrence of these two *Dasyogon* species is not common on the eastern side of the Swan Coastal Plain)

Fauna: structured survey for birds (37 species), native mammals (1 species), reptiles (14 species) and amphibians (4 species) (Harvey *et al.* 1997). Significant bird species: category 1 (1), category 3 (6) and category 4 (6). Significant mammal species: Quenda

Linkage: adjacent canopy to the north and bushland east (Site 350); part of Greenways 61, 106 (Tingay, Alan & Associates 1998a); part of a regionally significant fragmented bushland/wetland linkage (Part A, Map 7)

Other Special Attributes: Threatened or Poorly Reserved Plant Community (EPA 1994 GIS); contains plant communities representative of the eastern side of the Swan Coastal Plain; National Trust of Australia (WA) Classification

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Entered in the Register of the National Estate

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: Part A: Sites with Some Existing Protection; the existing purpose, care, control and management of Reserve 2457 is endorsed. Part B: Rural Complementary Mechanism (see Table 3, Volume 1).