

LIGHTNING SWAMP AND ADJACENT BUSHLAND, NORANDA

Boundary Definition: protected area/bushland boundary

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 307

Area (ha): bushland 72.6

Map no. 41, 42

Map sheet series ref. no. 2034–II NE

Other Names: Submission Area 178

Local Authorities (Suburb): Shire of Swan (Noranda), City of Bayswater (Noranda)

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

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

Supergroup 3: Uplands centred on Bassendean Dunes and Dandaragan Plateau

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

REGIONAL WETLANDS

Wetland Types: sumpland, dampland, artificial channel

Natural Wetland Groups

Bassendean Dunes

Jandakot (B.3)

Wetland Management Objectives: Conservation (0.7ha), Resource Enhancement

Swan Coastal Plain Lakes EPP: none identified

THREATENED ECOLOGICAL COMMUNITIES

Not assessed

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: open water, vegetated wetland, vegetated uplands

Vegetation and Flora: limited survey (DEP 1996 (Light 01–04))

Structural Units

Uplands: *Banksia attenuata* and *B. menziesii* Low Woodland with scattered *Eucalyptus tottiana*; Low Open Forest to Low Woodland dominated by *Banksia attenuata*, *B. menziesii*, *B. ilicifolia* or *Nuytsia floribunda* and combinations of these; *Phlebocarya ciliata* Herblands

Wetland: *Eucalyptus rudis* Woodland to Open Forest; *Melaleuca preissiana* Low Open Woodland

Vegetation Condition: >80% Very Good to Excellent, <20% Good to Degraded, with areas of severe localised disturbance

Total Flora: 112 native taxa, 13 weed taxa (plot-generated list, DEP 1996)

Significant Flora: *Macarthuria apetala*, *Astroloma xerophyllum*

Fauna: limited survey for birds (29 species), reptiles (5 species) and amphibians (4 species) (Murdoch University 1996). Significant bird species: category 3 (4) and category 4 (3)

Linkage: no adjacent native vegetation; part of Greenway 38 (Tingay, Alan & Associates 1998a); part of a regionally significant fragmented bushland/wetland linkage (Part A, Map 7)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Not listed

Bush Forever Site Description (from *Bush Forever* Volume 2 Government of WA 2000),
for the Maps see Volume 1

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, 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 (see Table 3, Volume 1).