

## NUMBAT ROAD BUSHLAND, MARIGINIUP

**Boundary Definition:** protected area with bushland (Site 14); protected area with bushland/conservation wetland boundary (Site 146) (remnants in pine plantation)

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

**Bush Forever Site no.** 141, 146

**Area (ha):** bushland 64.4

**Map no.** 29

**Map sheet series ref. no.** 2034-I SW

**Other Names:** part of proposed Gngangara Park

**Local Authorities (Suburb):** Shire of Wanneroo (Mariginiup, Jandabup)

**Includes CALM Managed Land:** State Forest 65

### **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 — North

Bassendean Complex — North Transition

**Floristic Community Types:** not sampled, types not inferred

#### **WETLANDS**

**Wetland Types:** dampland, artificial channel

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

###### **Bassendean Dunes**

Jandakot (B.3)

**Wetland Management Objectives:** Conservation (4.4ha), Resource Enhancement

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

#### **THREATENED ECOLOGICAL COMMUNITIES**

Not determined

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

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

**Vegetation and Flora:** limited survey (DEP 1998, McArthur and Mattiske 1985, Trudgen 1996)

##### **Structural Units**

Uplands: *Banksia attenuata*, *B. ilicifolia*, *B. menziesii* Low Woodland; *Banksia menziesii*, *B. attenuata* Low Open Woodland

Wetlands: *Melaleuca preissiana* Low Open Forest over *Astartea* aff. *fascicularis* Open Shrubland; *Melaleuca preissiana* Low Open Woodland

**Scattered Native Plants:** not assessed

**Vegetation Condition:** >40% Excellent, >40% Very Good, <15% Good, with areas of severe localised disturbance

**Total Flora:** not known

**Significant Flora:** none recorded

**Fauna:** not known

**Linkage:** no adjacent native vegetation

**Other Special Attributes:** included in Gngangara Park proposal (Bailey 1997); majority recommended for protection in study of City of Wanneroo bushland (Trudgen 1996)

### **SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE**

Not listed

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

**Recommendation:** Sites with Some Existing Protection; the existing care, control and management of these Sites is endorsed (Proposed 'Gnangara Park' - Cabinet 1996) (see Table 3, Volume 1).

## NUMBAT ROAD BUSHLAND, MARIGINIUP

**Boundary Definition:** protected area with bushland (BS14); protected area with bushland/conservation wetland boundary (BS146) (remnants in pine plantation)

### SECTION 1: CADASTRAL INFORMATION

(Lots, locations and derived information to be updated in the public submission period)

**Bushplan Site no.** 141, 146    **Map no.** 33    **Map sheet series ref. no.** 2034-I SW

**Other Names:** not known

**Area (ha):** total 66.6; bushland 64.4

**Local Authorities (Suburb)**

**Zoning**

Shire of Wanneroo (Mariginiup, Jandabup)

**MRS:** State Forests

**TPS:** Landscape

### Ownership Categories

**Lot/Location/Reserve numbers (Purpose),**

State Government

**Street name**

65 street not identified

CALM Managed Land

State Forest 65

### 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 — North

Bassendean Complex — North Transition

**Floristic Community Types:** not sampled, types not inferred

#### WETLANDS

**Wetland Types:** dampland, artificial channel

##### Natural Wetland Groups

###### Bassendean Dunes

Jandakot (B.3)

**Wetland Management Objectives:** Conservation (4.4ha), Resource Enhancement

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

#### THREATENED ECOLOGICAL COMMUNITIES

Not determined

### SECTION 3: SPECIFIC SITE DETAIL

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

**Vegetation and Flora:** limited survey (DEP 1998, McArthur and Mattiske 1985, Trudgen 1996)

##### Structural Units

Uplands: *Banksia attenuata*, *B. ilicifolia*, *B. menziesii* Low Woodland; *Banksia menziesii*, *B. attenuata* Low Open Woodland

Wetlands: *Melaleuca preissiana* Low Open Forest over *Astartea* aff. *fascicularis* Open Shrubland; *Melaleuca preissiana* Low Open Woodland

**Scattered Native Plants:** not assessed

**Vegetation Condition:** >40% Excellent, >40% Very Good, <15% Good, with areas of severe localised disturbance

**Total Flora:** not known

**Significant Flora:** none recorded

**Fauna:** no known information

**Linkage:** no adjacent native vegetation

**Other Special Attributes:** included in Gnangara Park proposal (Bailey 1997); majority recommended for protection in study of City of Wanneroo bushland (Trudgen 1996)

### SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Not listed



**SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS**

**Criteria:** Representation of ecological communities, General criteria for the protection of wetland, streamline and estuarine fringing and coastal vegetation, Criteria not relevant to determination of conservation value, but which may be applied when evaluating areas having similar values

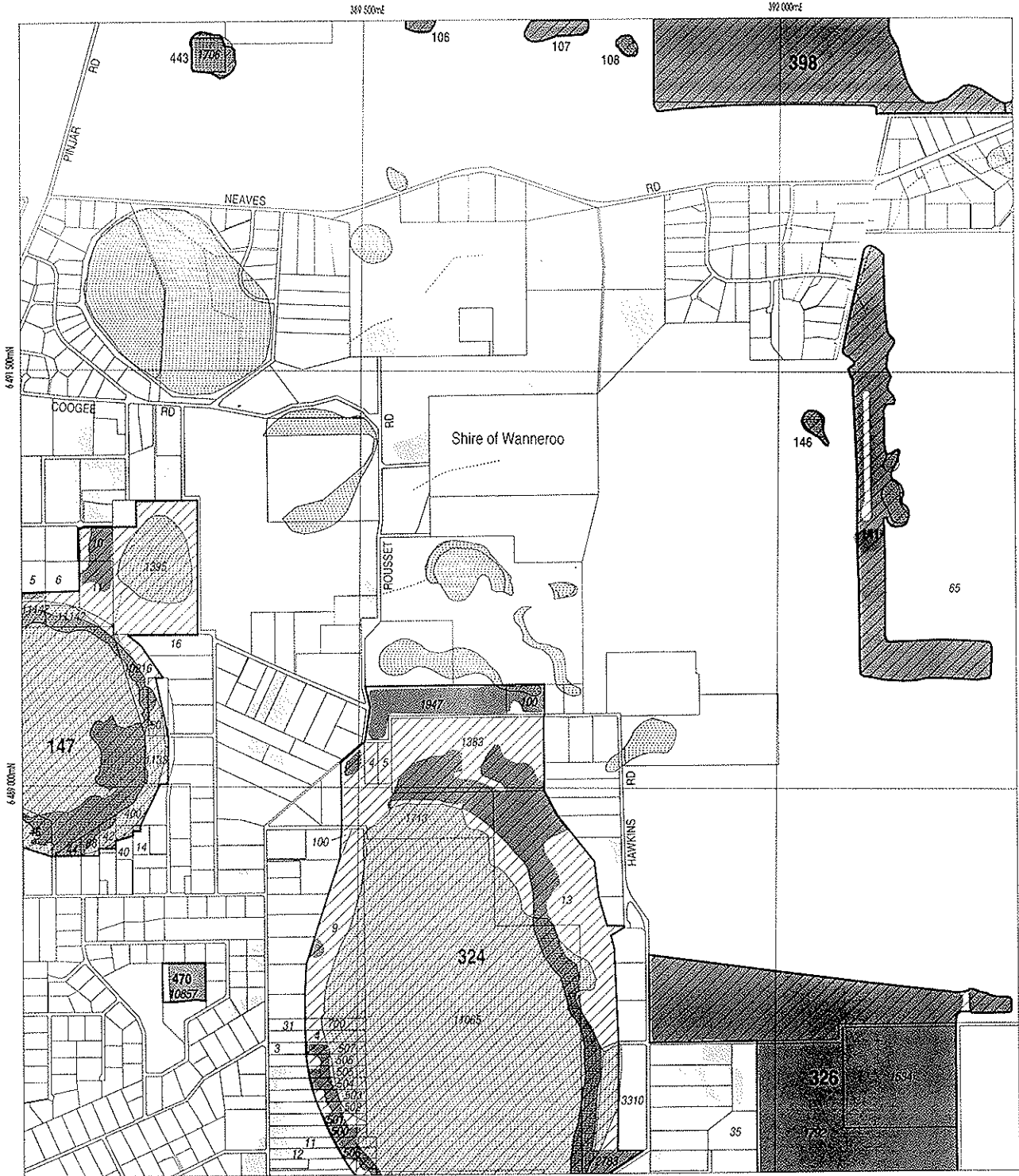
**Opportunities and/or Constraints**

Opportunities: Bushplan Site/part Bushplan Site subject to Gnangara Mound Crown Land EPP; location of conservation category wetlands; under TPS Landscape Zoning

Constraints: under General Mineral Resource Area (sand)

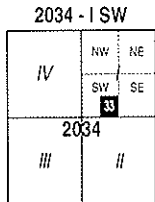
**Recommendation:** The existing care, control and management of this Bushplan Site is endorsed. This site lies within the proposed 'Gnangara Park' (concept announced by Cabinet in 1996) within which areas of remnant native vegetation, such as this Bushplan Site, should be managed in the future to retain and enhance their conservation values.



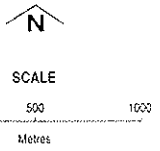
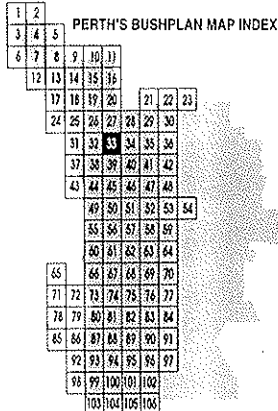


LEGEND

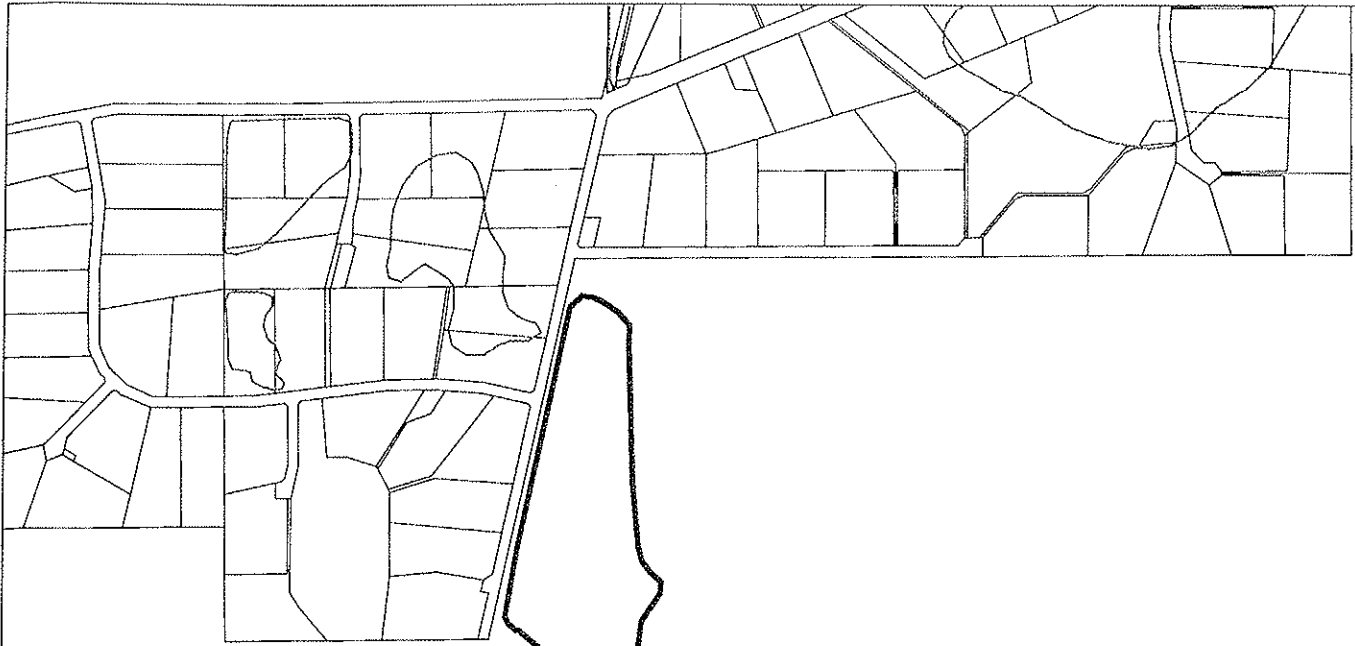
- Bushplan Sites With Regionally Significant Bushland
- Other Native Vegetation
- Conservation Category Wetlands
- Bushplan Sites With Some Existing Protection
- Lot Number, Location Number
- Channel Wetlands
- Local Government Boundary



1 : 25 000 AMG Reference Grid showing Perth's Bushplan Map Sheet Breakdown



Produced by Project Mapping Section  
 Land Information Branch, Ministry for  
 Planning, Perth W.A. November 1998  
 ntw-map11\environ\bushplan\bushv2\_33.dgn  
 Cadastral Data supplied by Department  
 of Land Administration, W.A.  
 Wetlands Data supplied by  
 Water and Rivers Commission  
 Native Vegetation Extent for Study Area  
 supplied by Agriculture Western Australia



146



141

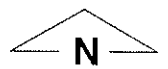
**BUSHPLAN SITES CORRECTED**



WESTERN  
AUSTRALIAN  
PLANNING  
COMMISSION



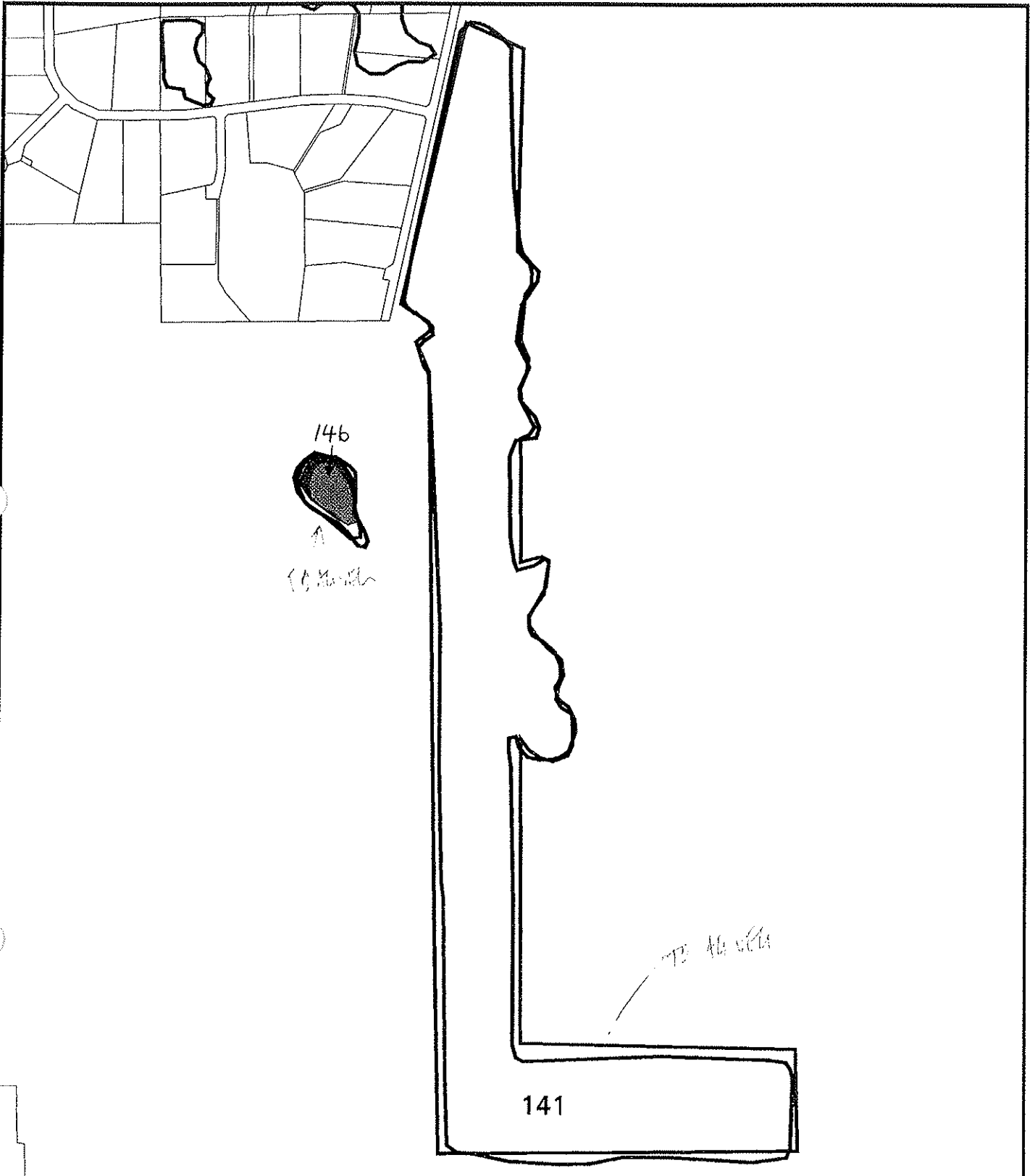
CUSTOMER  
FOCUS  
WESTERN AUSTRALIA



SCALE 1:2500







Metres



**bp site 141 & 146**

*LEGEND SITE 141 & 146*

-  AG VEG 1998 BOUNDARY THEME
-  Cadastre
-  Bushplan sites refno 1-500 SCP BOUNDARY THEME
-  cons category wetlands

MFP INTERNAL USE ONLY

Prepared By: Andrea Zappacosta

Prepared For:

Map Ident: plot980526\_1

Date: 26 May 98

Scale 1:12522

(UPDATED)

BUSHLAND AREA B2 K11 BOMB SITES Natalie + John YES/NO

DATE 6/5/99 RECORDERS Natalie + John

Observations MEMORIALS TO BUSHLAND / NIMBATT ROAD

edge transects 22 = black rocks

Geographic Location Latitude S Longitude E

Reference Map (1) (3) (C) (D)

Photograph Photographer's Name NT Photo No 20 21 - 23

Transect of landscape units (draw in transect incorporating features listed and any other relevant unit)

dunes (A)  
 dry/wet flats  
 sumplands  
 uplands  
 type W

Soil - surface (A) pale grey and brown - (ants brought down subsoil) sub-soil  
 Exposed rock type (B) - patches of yellow sand % area

**FLORA/VEGETATION** (list dominant and significant plants below, see over for vege association descriptions)

Eucalypts	<i>E. calophylla</i>	<i>E. wandoo</i>	<i>E. marginata</i>	<i>E. todtianna</i>	<i>E. rudis</i>
	<i>E. decipiens</i>	<i>E. drummondii</i>	<i>E. haematoxylon</i>	<i>E. lanepolei</i>	<i>E. gomphocephala</i>
	<i>E. accedens</i>	<i>E. patens</i>	<i>E. laeliae</i>	<i>E. megacarpa</i>	
Sheoaks	<i>Allocasuarina fraserana</i>		<i>Casuarina obesa</i>		
Banksia	<del><i>B. attenuata</i></del>	<del><i>B. menziesii</i></del>	<i>B. prionotes</i>	<del><i>B. illicifolia</i></del>	<i>B. grandis</i> <i>B. littoralis</i>
Melaleuca	<del><i>M. preissii</i></del>	<i>M. raphiophylla</i>	<i>M. lanceolata</i>	<i>M. cuticularis</i>	
Others	<i>Callitris preissii</i>				
Mallees	Eucalypts	<i>E. argutifolia</i>	<i>E. petrensis</i>	<i>E. decurva</i>	<i>E. foecunda</i> <i>E. latens</i>

SIGNIFICANT SPECIES  
 (see over for vegetation descriptions)

**Vegetation Condition** - Keighery 1994 (Trudgen 1993) (show range and indicate predominant class)

- 1 = 'Pristine' (Excellent) (A) been cleared at one time
- 2 = Excellent (Very Good)
- 3 = Very Good (Good) (A) Vg → Excellent
- 4 = Good (Poor) (B) = excellent (except for fire - keep)
- 5 = Degraded (Very Poor) (C) = Vg
- 6 = Completely Degraded (D) = degraded

**Specific aspects of disturbance**

partial clearing  
cleared + regenerating - structure retaining

weeds (list): (L) (C)

selective removal of species: timber cutting mowing fire grazing dieback %area

fire frequency:

'enrichment plantings' (list)

animal impact: horse foxes rabbits cats dogs goats pigs overgrazing by native mammals

soil movement: mining dumping rubbish dumping roadworks

changes in water regimes: flooding drainage watering nutrient influx

Tracks: fire breaks walk trails off road vehicle use animal tracks

Service corridors: SEC Main Roads Water Authority. Telecom

Other

BLACK ROCKS - LOTS + LOTS

IF NO USE FOR LINES...  
 RE - COLLECTIVE +  
 CLOSE BY TREES

LIFE FORM/HEIGHT CLASS	CANOPY COVER			
	DENSE 70-100%	MID-DENSE 30-70%	SPARSE 10-30%	VERY SPARSE 1-10%
Trees >30m Trees 15-30m Trees 5-15m Trees <5m	Dense Tall Forest Dense Forest Dense Low Forest A Dense Low Forest B	Tall Forest Forest Low Forest A Low Forest B	Tall Woodland Woodland Low Woodland A Low Woodland B	Open Tall Woodland Open Woodland Open Low Woodland A Open Low Woodland B
Mallee tree form Mallee shrub form	Dense Tree Mallee Dense Shrub Mallee	Tree Mallee Shrub Mallee	Open Tree Mallee Open Shrub Mallee	Very Open Tree Mallee Very Open Shrub Mallee
Shrubs >2m Shrubs 1.5-2.0m Shrubs 1.0-1.5m Shrubs 0.5-1.0m Shrubs 0.0-0.5m	Dense Thicket Dense Heath A Dense Heath B Dense Low Heath C Dense Low Heath D	Thicket Heath A Heath B Low Heath C Low Heath D	Scrub Low Scrub A Low Scrub B Dwarf Scrub C Dwarf Scrub D	Open Scrub Open Low Scrub A Open Low Scrub B Open Dwarf Scrub C Open Dwarf Scrub D
Mat plants Hummock Grass  Bunch grass >0.5m Bunch grass <0.5m Herbaceous spp.	Dense Mat Plants Dense Hummock Grass  Dense Tall Grass Dense Low Grass Dense Herbs	Mat Plants Mid-Dense Hummock Grass  Tall Grass Low Grass Herbs	Open Mat Plants Hummock Grass  Open Tall Grass Open Low Grass Open Herbs	Very Open Mat Plants Open Hummock Grass  Very Open Tall Grass Very Open Low Grass Very Open Herbs
Sedges >0.5m Sedges <0.5m	Dense Tall Sedges Dense Low Sedges	Tall Sedges Low Sedges	Open Tall Sedges Open Low Sedges	Very Open Tall Sedges Very Open Low Sedges
Ferns Mosses, liverwort	Dense Ferns Dense Mosses	Ferns Mosses	Open Ferns Open Mosses	Very Open Ferns Very Open Mosses

**VEGETATION** (describe each unit of vegetation using dominants and life form/height class and canopy cover according to the Muir codes above)

(110 airfield + wet meadow)  
 (A)  
 (B)  
 TREE - 2 years

<i>Banksia menziesii</i>	} 3-4m	20%
<i>Banksia alternata</i>		
<i>Banksia ilicifolia</i>		
occ <i>Wickhamia</i>		
<i>Xyris</i> spp.	60cm	10%
<i>Fest. Jackmanii</i>		2%
<i>Lyonia bairdii</i>	15	15%
<i>Dalmanella occidentalis</i>		
<i>Adiantum decoratum</i>		
<i>Metelasma acutum</i>		
<i>Peltandra linearis</i>		
<i>Dryopteris bismellii</i>		
<i>Metelasma scitula</i>		
<i>Schizanthus invidiosus</i>		
<i>Lomandra</i>		
⊗ <i>Carex</i> sedge	10cm	2%
<i>B. menziesii</i>	} >10m	>10%
<i>B. alternata</i>		
<i>Shilimia latifolia</i>	50-1m	20%
<i>Xyris</i>		
<i>Macrorhiza</i>		
<i>Calystegia sepium</i>	5m	
<i>Adiantum</i>		
<i>Amphibolus</i>		
<i>Bostrychia eriopoda</i>		
<i>Corostylis setigera</i>		
<b>Fauna comments</b>		
<i>Metelasma</i>		
<i>Peltandra linearis</i>		
<i>Amphibolus</i>		
<b>Adjacent bushland</b> (refer to aerial photograph)		

Macrorhiza

BS 141 + BS 146

Number food (in JT)

② WETLAND AREA - note only (no photo)

Melaleuca preissiana tall to 12m (some dead)  
" " 3-4m ≈ 70%

③ VERY DISTURBED - RABBIT  
- cleared / buried one

Melaleuca preiss.	2-4m	35-40%
Astilbe sub. frutic	1.5m	10% v. dead!
xp 1.2m	2%	
Chorizandra didsonii	ALL DEAD - 1m	
Melogramma v. v. line	15cm	25%
Fury Sedge	1.2m	10%
Kunzea erubescens	0.8-1.2	< 2%
Hypocalymma		
Regelia mps		

WILD 1574 UAGA  
Nr 13037 152.72

000166



-5022-1269-571000200028056-

000000003165200125601908