

## SICKLEMORE ROAD BUSHLAND, PARMELIA/CASUARINA

**Boundary Definition:** protected area/bushland part taken to cadastre/bushland group boundary (Boundary adjusted in response to a submission to draft *Perth's Bushplan*.)

### SECTION 1: LOCATION INFORMATION

**Bush Forever Site no.** 272

**Area (ha):** bushland 84.6

**Map no.** 64, 65, 71

**Map sheet series ref. no.** 2033-I SW, 2033-II NW

**Other Names:** Bushland between Barney Swamp and Freeway, part of Beeliar Regional Park

**Local Authorities (Suburb):** Town of Kwinana (Casuarina, Orelia, Parmelia)

### 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)

##### Spearwood Dunes

Sands derived from Tamala Limestone (Qts: S7)

##### Wetlands (within the Bassendean Dunes)

Holocene Swamp Deposits (Qhw: Ms5)

#### VEGETATION AND FLORA

##### Vegetation Complexes

###### Bassendean Dunes

Bassendean Complex — Central and South

###### Spearwood Dunes

Karrakatta Complex — Central and South

###### Wetlands

Herdsmen Complex

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

##### Supergroup 2: Seasonal Wetlands

\*5 Mixed shrub damplands

\*11 Wet forests and woodlands

##### Supergroup 4: Uplands centred on Spearwood and Quindalup Dunes

\*28 Spearwood *Banksia attenuata* or *B. attenuata* — *Eucalyptus* woodlands

#### WETLANDS

**Wetland Types:** sumpland, artificial channel

##### Natural Wetland Groups

###### Bassendean Dunes

Jandakot (B.3)

###### Spearwood—Bassendean interface

Bibra (S/B.1)

**Wetland Management Objectives:** Conservation (2.4ha), Resource Enhancement

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

#### THREATENED ECOLOGICAL COMMUNITIES

Not assessed

### SECTION 3: SPECIFIC SITE DETAIL

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

**Vegetation and Flora:** limited survey (DEP 1998 survey from roadside, DEP 1999)

##### Structural Units

Uplands: Mixed *Banksia attenuata*, *B. menziesii* and *Allocasuarina fraseriana* Low Woodland with emergent *Eucalyptus marginata*

Wetlands: *Eucalyptus rudis* Woodland; *Melaleuca raphiophylla* Low Open Forest; *Melaleuca preissiana* Low Woodland to Low Open Forest over *Agonis linearifolia* Closed Tall Scrub; *Banksia ilicifolia*, *B. attenuata*, *B. menziesii* Low Woodland over patches of *Kunzea ericifolia*; *Melaleuca viminea* Tall Open Scrub; *Lepidosperma longitudinale* Closed Sedgeland

**Vegetation Condition:** <40% Excellent, >30% Very Good, >30% Good to Degraded, with areas of severe localised disturbance

**Total Flora:** not known

**Significant Flora:** *Diuris micrantha* (R), *Caladenia huegelii* (R); *Aponogeton hexatepalus* (4)

**Fauna:** not known

**Linkage:** adjacent bushland to the north (Site 269, across road) and east (across road); part of Greenways 78, 97 (Tingay, Alan & Associates 1998a); part of a regionally significant contiguous bushland/wetland linkage (Part A, Map 7)

**Other Special Attributes:** part Site to be included in Beeliar Regional Park (State Government Cabinet Minute 5 May 1997)

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

Subject to protection under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*, Entered in the Interim List of the Register of the National Estate

#### ***SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS***

**Criteria:** Representation of ecological communities, Rarity, General criteria for the protection of wetland, streamline and estuarine fringing 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 care, control and management of this portion of this Site for conservation purposes within Beeliar Regional Park is endorsed. Part B: Proposed Parks and Recreation Reservation (see Table 3, Volume 1).

**SICKLEMORE ROAD BUSHLAND, PARMELIA/CASUARINA**

**Boundary Definition:** protected area/bushland part taken to cadastre/bushland group boundary

**SECTION 1: CADASTRAL INFORMATION**

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

**Bushplan Site no.** 272    **Map no.** 81, 88    **Map sheet series ref. no.** 2033-I SW, 2033-II NW

**Other Names**

Bushland between Barney Swamp and Freeway

**Local Authorities (Suburb)**

Town of Kwinana (Casuarina, Orelia, Parmelia)

**Area (ha):** total 103.7; bushland 84.8

**Zoning**

**MRS:** Parks and Recreation, Urban, Railways, Important Regional Roads

**TPS:** Landscape, No Zone, Park Recreation and Drainage, Residential, Rural

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

**Street name**

1134, 1136, 1137, 1200, 1346, 1347 Thomas Rd; 27, 1202 Sicklemore Rd; 1205, 1217 Johnson Rd; 7 Bertram Rd; 1403 Nottingham Pwy; 1135 street not identified  
Crown Reserve

**Ownership Categories**

Private, State Government, Local Government, Not identified

**SECTION 2: REGIONAL INFORMATION**

**LANDFORMS AND SOILS**

**Bassendean Dunes**

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**VEGETATION AND FLORA**

**Vegetation Complexes**

**Bassendean Dunes**

Bassendean Complex — Central and South

**Spearwood Dunes**

Karrakatta Complex — Central and South

**Wetlands**

Herdsmen Complex

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**Wetland Management Objectives:** Conservation (2.4ha), Resource Enhancement

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

**THREATENED ECOLOGICAL COMMUNITIES**

Not assessed

**SECTION 3: SPECIFIC SITE DETAIL**

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

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**Structural Units**

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**Significant Flora:** *Diuris micrantha* (R), *Caladenia huegelii* (R); *Aponogeton hexatepalus* (4)

**Fauna:** no known information

**Linkage:** adjacent bushland to the north (BS269, across road) and east; part of proposed Greenway 93 (Tingay, Alan & Associates 1997a); part of a regionally significant contiguous bushland/wetland linkage (Volume 2A, Map 8)

**Other Special Attributes:** part Bushplan Site to be included in Beeliar Regional Park (State Government Cabinet Minute 5 May 1997)

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

Not listed

#### **SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS**

**Criteria:** Representation of ecological communities, Rarity, 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 Peel-Harvey Estuary EPP/SPP; location of Declared Rare Flora, conservation category wetland; under MRS Parks and Recreation Reservation, TPS Landscape Zoning, Park Recreation and Draining Zoning, Crown Reserve

**Constraints:** private land; under MRS Urban Zoning, MRD regional road requirements

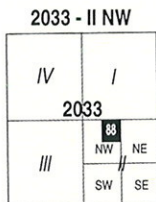
**Recommendation:** The care, control and management of parts of this Bushplan Site for conservation purposes within Beeliar Regional Park is endorsed. The most appropriate mechanism for the protection of the remainder of this Bushplan Site be considered through the public comment period in consultation with the land owner(s).



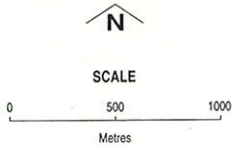
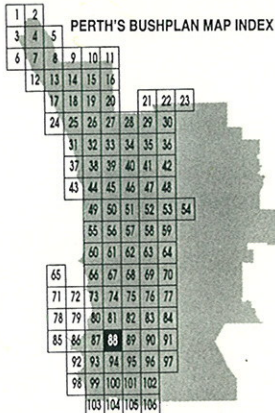


**LEGEND**

- 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

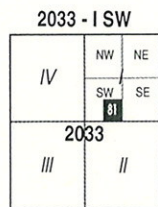


Produced by Project Mapping Section  
 Land Information Branch, Ministry for  
 Planning, Perth W.A. November 1998  
[ntw-map9/environ/bushplan/bushv2\\_88.dgn](http://ntw-map9/environ/bushplan/bushv2_88.dgn)  
 Cadastral Data supplied by Department  
 of Land Administration, W.A.  
 Wetlands Data supplied by  
 Water and Rivers Commission  
 Native Vegetation Extent for Study Area  
 supplied by Agriculture Western Australia



**LEGEND**

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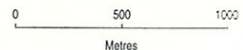
1 : 25 000 AMG Reference Grid showing Perth's Bushplan Map Sheet Breakdown

**PERTH'S BUSHPLAN MAP INDEX**

1	2												
3	4	5											
6	7	8	9	10	11								
12	13	14	15	16									
17	18	19	20	21	22	23							
24	25	26	27	28	29	30							
31	32	33	34	35	36								
37	38	39	40	41	42								
43	44	45	46	47	48								
49	50	51	52	53	54								
55	56	57	58	59									
60	61	62	63	64									
65													
71	72	73	74	75	76	77							
78	79	80	81	82	83	84							
85	86	87	88	89	90	91							
92	93	94	95	96	97								
98	99	100	101	102									
103	104	105	106										



**SCALE**



Produced by Project Mapping Section  
 Land Information Branch, Ministry for  
 Planning, Perth W.A. November 1998  
 ntw-map9/envirom/bushplan/bushv2\_81.dgn  
 Cadastral Data supplied by Department  
 of Land Administration, W.A.  
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 Native Vegetation Extent for Study Area  
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**BUSHPLAN SITES CORRECTED**

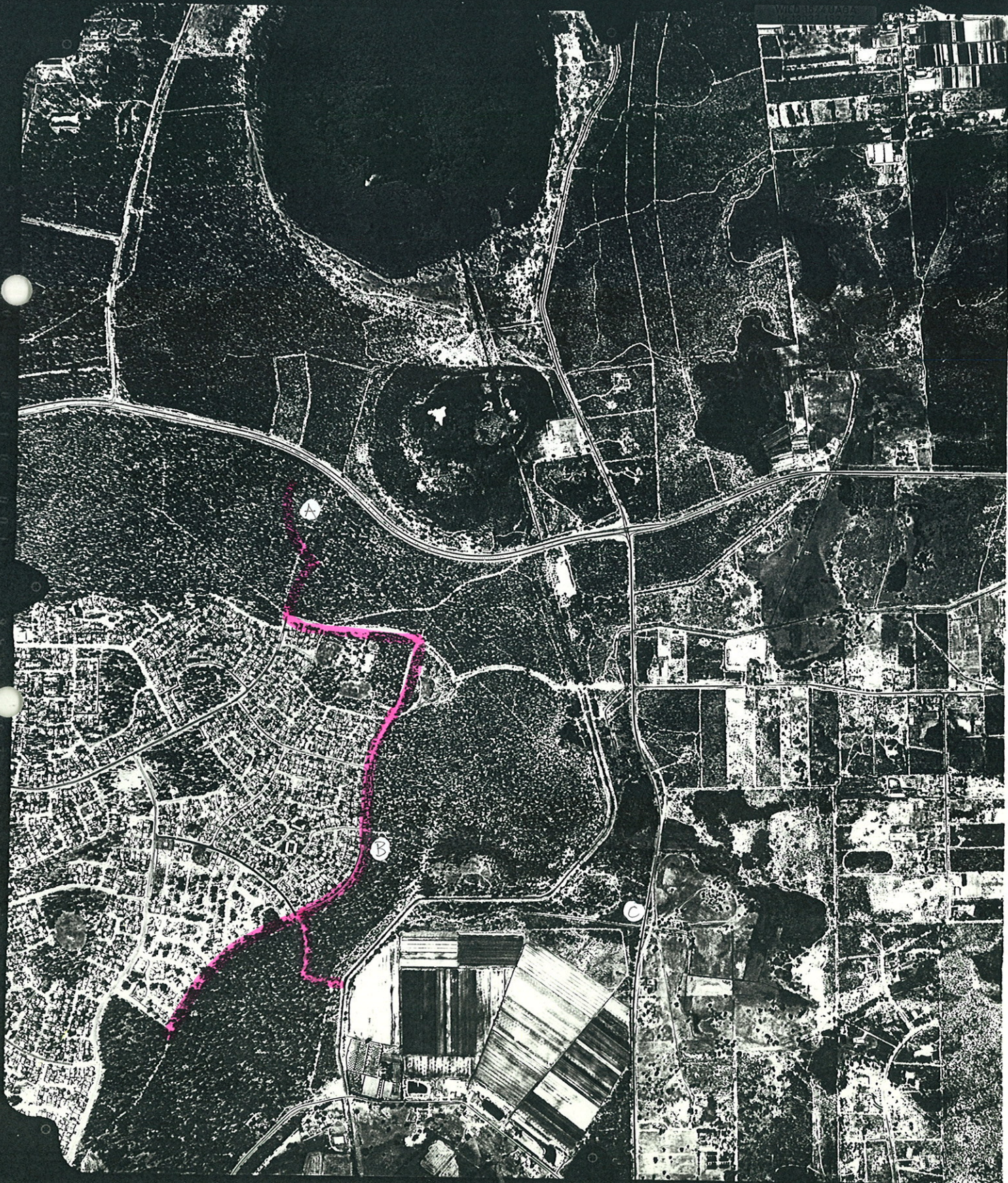


**WESTERN  
AUSTRALIAN  
PLANNING  
COMMISSION**



B T628/10/98





Specimens

Vol 2 Description Updated

DEP SYSTEM 6 UPDATE SUBMISSION SURVEY SHEET

B.J. KEIGHERY 2/96

BUSHLAND AREA PLOT B5272 SITES YES/NO

DATE 9/1/98 RECORDERS COWIE + EDWARDS

Observations edge transects

Geographic Location Latitude S Longitude E

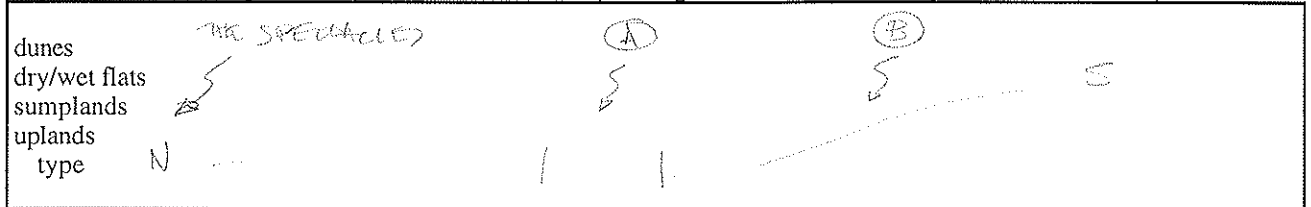
Reference Map

A = 3 + 4

Photograph Photographer's Name EDWARDS Photo No (2) = (3)

C =

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



Soil - surface grey, loose sands sub-soil Exposed rock type % 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. todtiana</i>	<i>E. rudis</i>
	<i>E. decipiens</i>	<i>E. drummondii</i>	<i>E. haematoxylon</i>	<i>E. lanepoolei</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	<i>B. attenuata</i>	<i>B. menziesii</i>	<i>B. prionotes</i>	<i>B. illicifolia</i>	<i>B. grandis</i> <i>B. littoralis</i>
Melaleuca	<i>M. preissii</i>	<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

*Mandomia keidleyi*  
*acc. Xylomelum occidentale*  
*Melaleuca viminea*  
*Burmea diacoma*

(see over for vegetation descriptions)

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

1 = 'Pristine' (Excellent)
2 = Excellent (Very Good)
3 = Very Good (Good) <u>60% Excellent</u>
4 = Good (Poor) <u>30% VG - G</u>
5 = Degraded (Very Poor) <u>10% Degraded - Poor</u>
6 = Completely Degraded

Specific aspects of disturbance

partial clearing

weeds (list): Wedge grass

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

NOTE: CHECK ECOLOGICAL TRANSPARENT STUDY REPORT FOR (C)

LIFE FORM/HEIGHT CLASS	CANOPY COVER			
	DENSE 70-100%	MID-DENSE 30-70%	SPARSE 10-30%	VERY SPARSE 2-10%
Trees >10m 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)

(A)  
PHOTO 3+4

occ *Euc. macrocarpa* (>10m) < 2 (logged)  
*Banksia alternata* (6-7m)  
 " *menziesii* (6m) / mixed = 15-20%  
*Alo. heterophylla* (5-7m)  
 occ *Marrubium*  
*Lamandra nemoralis*  
*Crossula aculeata*  
*Lomandra* sp.  
*Schoenus nardoides* (10-15) 5%  
*Polygonum lactuca-hairy*  
*Burchardia*  
*Scaevola canaliculata*  
*Dianella ser.* (6cm) < 1  
*Doronicum occidentale*  
 CONDITION = GOOD (Adjacent = DEGRADED)

(B)

Bm + Ba + Af 4-6m 10%  
 - *Taxia* v. patchy - scattered to clumped  
*Stylidium falcatum* 50cm  
 - *Woodsia Adiantum* (1.1-1.7m)  
*Nepenthes alata* 10cm 2-5%  
 occ *Scylocladus acid.*  
*Mesochloa* (1.0-6.0m) 2%  
*Marrubium* (1.5-1.7) < 2%  
*Xanthorrhoea*  
 CONDITION = VERY GOOD to GOOD w/ degraded patches

**Fauna comments**

**Adjacent bushland** (refer to aerial photograph)

HOMEBWEST SIGNS "Future Reserve Purpose"

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

(C1) - tall shrubland

- Euc. rudis 10-30%  
 mel rhamn. ?  
 Mel. viminea } 30-70%

Baumea stipitata 70%

[ Edge = Euc rudis, mel & Feligna ]

[ exaltat  
 nudica ]

Uffery = weeds

(C2) - shrublands + flats

Euc rudis  
 Banksia littoralis  
 \* patches of mel (rare)

ALBERT  
 CONDOR = 6000  
 in  
 disjunct

(C3) Wapiti longitudinal swamp (77% cover)

is? Euc gamon to wet  
 Between above swamp from N to  
 N - Bank ill (large) Bank all Bank men 2  
 Low Woodland over patches Kan. etc. clumps  
 occ Tarrels S patches Moss

Fauna comments

Adjacent bushland (refer to aerial photograph)

OTHER COMMENTS

(C4) Mel. premissura Low Woodland to Forest  
 over Agonis line 72m 77%  
 odd patches of 77% Broken

Euc rudis Forest to Woodland  
 over Broken

??  
 N. maring  
 broken fern?

654 973

BUSHLAND AREA

APT 272 SITES

YES/NO

DATE

RECORDERS

Observations edge transects

Geographic Location	Latitude	S Longitude	E
Reference Map			

Photograph	Photographer's Name	Photo No
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Transect of landscape units (draw in transect incorporating features listed and any other relevant unit)

dunes	
dry/wet flats	
sumplands	
uplands	
type	

Soil - surface		sub -soil
Exposed rock	type	% area

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

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SIGNIFICANT SPECIES / DOMINANT SPECIES					
(see over for vegetaion descriptions)					

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Specific aspects of disturbance

partial clearing						
weeds (list):						
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						

Bushplan Site 272

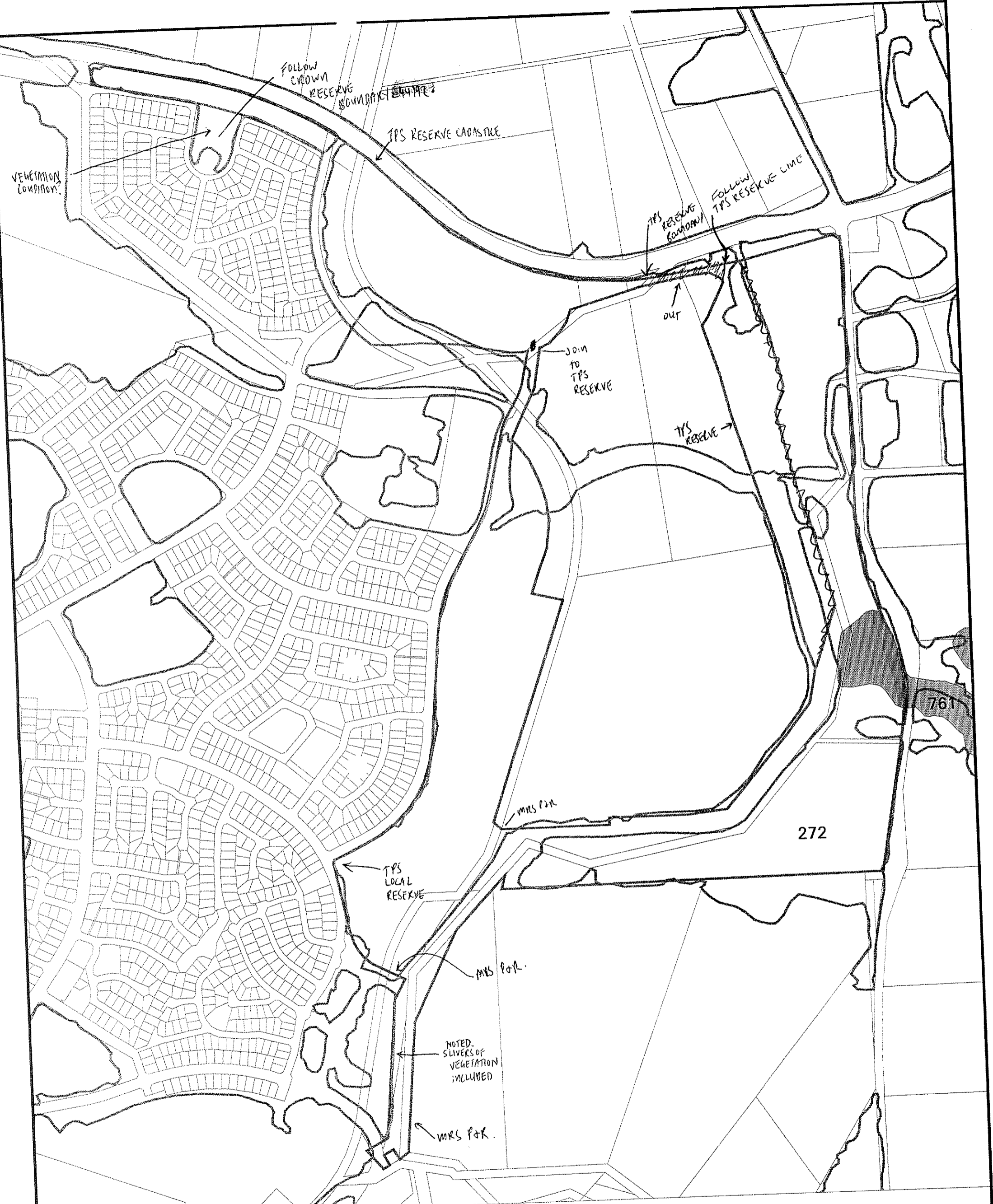
9-1-98









Area A

Area B





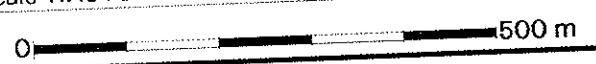
**bp site 272**

-  Cadastre
-  Bushplan sites refno 1-500 SCP BOUNDARY THEME
-  cons category wetlands
-  Verified CCWs
-  AG VEG 1998 BOUNDARY THEME
-  ? RAILWAY RESERVE

VCLW 761 → NOT INCLUDED.  
 - URBAN (MRS) RESIDENTIALS  
 - CONTROLLED ACCESS HIGHWAY  
 - EXISTING ROAD SEPARATES IT FROM 272.  
 - BACKGROUND COMMON → SOUTH NOT CURRENT  
 - MUST APPROPRIATELY DECT WITH THROUGH EPP.

MAPS FOR RELEVANT BACKGROUND THEMES ATTACHED.







Map Ident: plot980707_1	DATE: 07 Jul 98
Prepared By: Andrea Zappacosta	Prepared For:
Scale 1:AUTO	MFP INTERNAL USE ONLY







**bp site 272  
with Crown Reserves**

-  Cadastre
-  Bushplan sites refno 1-500 SCP BOUNDARY THEME
-  AG VEG 1998 BOUNDARY THEME
-  Crown Reserves @ June/97
-  cons category wetlands
-  Verified CCWs

Map Ident: plot980706_1	DATE: 06 Jul 98
Prepared By: Andrea Zappacosta	Prepared For:
Scale 1:AUTO	MFP INTERNAL USE ONLY

0 500 m









**bp site 272  
with MRS P&R**

Map Ident: plot980706\_1  
 Prepared By: Andrea Zappacosta  
 Scale 1:AUTO

DATE: 06 Jul 98  
 Prepared For:  
 MFP INTERNAL USE ONLY



-  Cadastre
-  Bushplan sites refno 1-500 SCP BOUNDARY THEME
-  AG VEG 1998 BOUNDARY THEME
-  MRS - Parks & Recreation
-  cons category wetlands
-  Verified CCWs



WILD 15740AGA  
Nr 13037 15272

100086

5022 - 1 268 - 56 100 0180 0300 56 -

00000 00255 0200 2560 1997