

CONTI ROAD BUSHLAND, WANNEROO

Boundary Definition: bushland (part taken to cadastre)/management boundary (Boundary adjusted after vegetation survey and negotiations with the land owner(s) in response to a submission to draft *Perth's Bushplan*.)

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 164

Area (ha): bushland 27.2

Map no. 28

Map sheet series ref. no. 2034-I SW

Other Names: not known

Local Authorities (Suburb): Shire of Wanneroo (Ashby)

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

Spearwood Dunes

Sands derived from Tamala Limestone (Qts: S7)

VEGETATION AND FLORA

Vegetation Complexes

Spearwood Dunes

Karrakatta Complex — Central and South

Floristic Community Types

Supergroup 4: Uplands centred on Spearwood and Quindalup Dunes

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

WETLANDS

No wetlands mapped

THREATENED ECOLOGICAL COMMUNITIES

Not assessed

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: vegetated uplands

Vegetation and Flora: limited survey (DEP 1999, Gibson *et al.* 1994 (Depot 01); Mattiske Consulting Pty Ltd 1997)

Structural Units

Uplands: Mixed *Banksia attenuata*, *B. menziesii* and *Eucalyptus marginata* Woodland; *Eucalyptus calophylla* Woodland; *Eucalyptus gomphocephala* Woodland

Scattered Native Plants: *Eucalyptus marginata* Woodland

Vegetation Condition: >60% Very Good (Excellent) to Good, <10% Good to Degraded, with areas of severe localised disturbance (DEP 1999, Mattiske Consulting Pty Ltd 1997)

Total Flora: 38 native taxa (Gibson *et al.* 1994 (Depot 01); Mattiske Consulting Pty Ltd 1997) (estimated >20% expected flora)

Significant Flora: none recorded

Fauna: not known

Linkage: adjacent bushland/canopy to the north and west (Site 299, across road); part of Greenway 2 (Tingay, Alan & Associates 1998a); part of a regionally significant contiguous bushland/wetland linkage (Part A, Map 7)

Other Special Attributes: 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

Recommendation: Part A: Proposed Parks and Recreation Reservation. Part B: Strategic Negotiated Planning Solution (see Table 3, Volume 1).

CONTI ROAD BUSHLAND, WANNEROO

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

SECTION 1: CADASTRAL INFORMATION

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

Bushplan Site no. 164 **Map no.** 32 **Map sheet series ref. no.** 2034-I SW

Other Names: not known

Area (ha): total 32.9; bushland 30.9

Local Authorities (Suburb)

Zoning

Shire of Wanneroo (Ashby)

MRS: Urban, Urban Deferred

TPS: Rural

Ownership Categories

Private, Local Government, State Government

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

9, 8027, 10668 Wanneroo Rd; 8121 Conti Rd; 7746
Ashley Rd; 500 Carosa Rd; Closed
Crown Reserve

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

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WETLANDS

No wetlands mapped

THREATENED ECOLOGICAL COMMUNITIES

Not assessed

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: vegetated uplands

Vegetation and Flora: limited survey (Gibson *et al.* 1994 (Depot 01); Matiske Consulting Pty. Ltd. 1997)

Structural Units

Uplands: Mixed *Banksia attenuata*, *B. menziesii* and *Eucalyptus marginata* Woodland; *Eucalyptus calophylla* Woodland

Scattered Native Plants: *Eucalyptus marginata* Woodland

Vegetation Condition: Excellent to Good (Matiske Consulting Pty. Ltd. 1997)

Total Flora: 38 native taxa (Gibson *et al.* 1994 (Depot 01); Matiske Consulting Pty. Ltd. 1997) (estimated >20% expected flora)

Significant Flora: none recorded

Fauna: no known information

Linkage: adjacent bushland/canopy to the north, south and west (BS299, across road); part of proposed Greenway 2 (Tingay, Alan & Associates 1997a); part of a regionally significant contiguous bushland/wetland linkage (Volume 2A, Map 8)

Other Special Attributes: recommended for protection in the 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

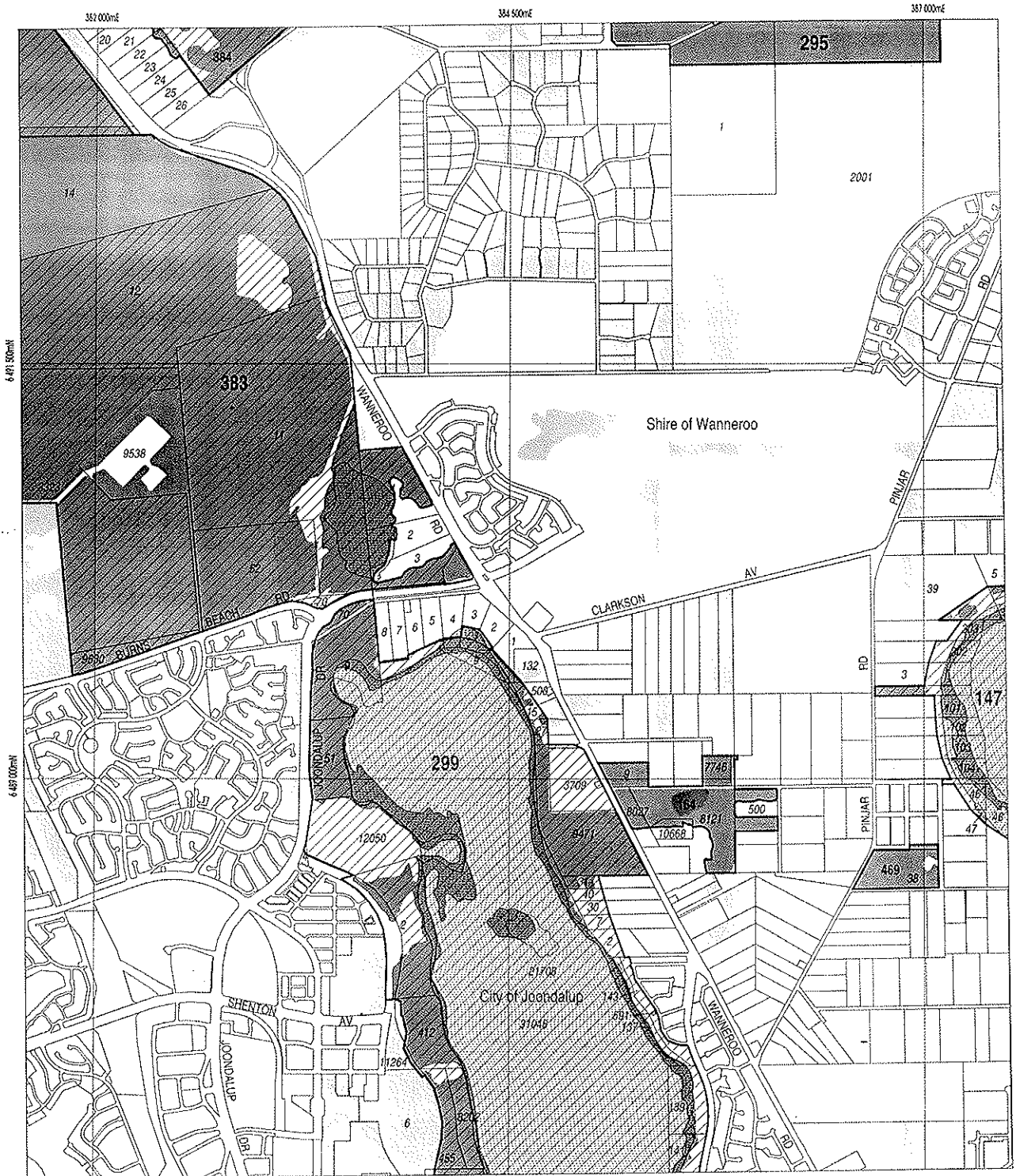
Opportunities and/or Constraints

Opportunities: Bushplan Site/part Bushplan Site under Crown Reserve

Constraints: private land; under MRS Urban Zoning and Urban Deferred Zoning, General Mineral Resource Area (sand)

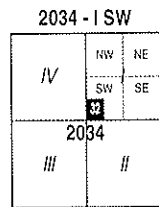
Recommendation: The most appropriate mechanism for the protection of this Bushplan Site be considered through the public comment period in consultation with the land owner(s). For existing crown reserve part of Bushplan Site: The existing care, control and management of the reserve is endorsed. Long-term security and support for conservation management of the Bushplan Site to be enhanced by: amending the purpose of the reserve to include conservation; and applying appropriate mechanisms in consultation with the reserve management body.





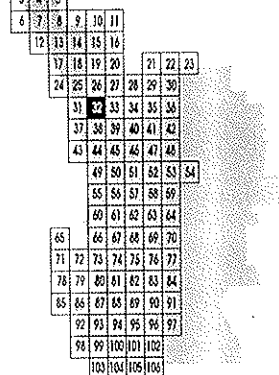
LEGEND

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

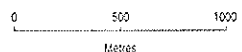


1 : 25 000 AMG Reference Grid showing Perth's Bushplan Map Sheet Breakdown

PERTH'S BUSHPLAN MAP INDEX



SCALE



Produced by Project Mapping Section
 Land Information Branch, Ministry for
 Planning, Perth W.A. November 1998
 ntw-map11/enviro/bushplan/bushv2_32.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

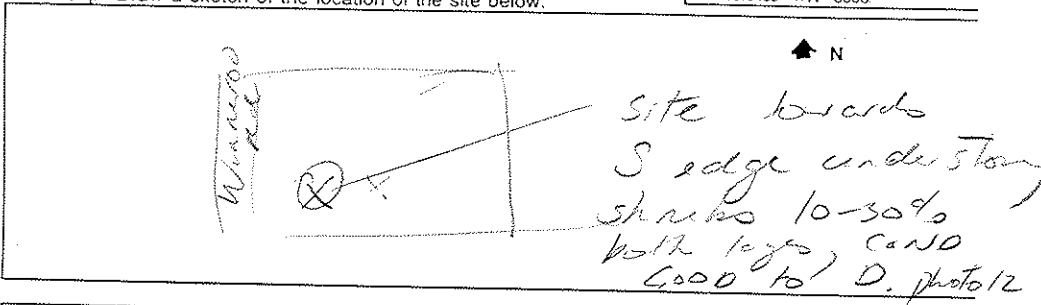
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA BS 164 SITE NUMBER Lot 9
 DATE TRIP 6/8/99 RECORDERS BJK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

From 'Busland Plant Survey' written
 B. Keighery (1994) and published by
 Wildflower Society of WA (Inc.), PO 1
 64 Nedlands WA 6008.

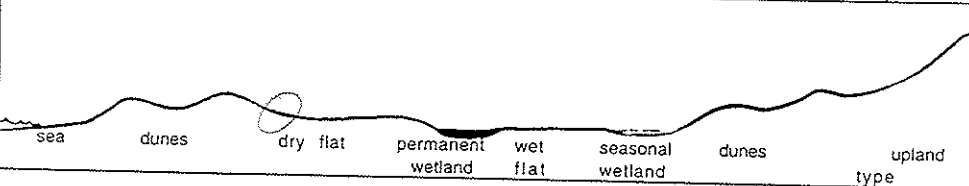
Mud Map Draw a sketch of the location of the site below.



Road Location Wanneroo Road
 Geographic Location Latitude _____ S Longitude _____ E Altitude _____
 Reference Map _____

Photograph Photographer's Name BJK Photo No 11

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope flat gentle steep Aspect N NE E SE S SW W NW

Surface Soil sand Colour grey
 Exposed rock type _____ % surface _____

Sub-surface Soil sand Colour yellow
 Rock type _____ depth to rock _____

Drainage well mod poor depth water _____ cm Wet all year winter/spring

Litter _____ % cover _____
 Depth _____ cm Bare Ground _____ % cover _____

LIFE FORM	TREES			MALLEES	
	over 30m	10-30m	under 10m	over 8m	under 8m
			<i>Tack, skm</i> <i>Tack base</i> <i>acc</i> <i>bank</i> <i>off</i>		
COVER CLASS (%)					
DOMINANT SPECIES			<i>Tack</i> <i>Heath</i> <i>Al. trees</i>		
LIFE FORM	SHRUBS over 2m		2m - 1m	SHRUBS under 1m	
	over 2m	2m - 1m	2m - 1m	under 1m	under 1m
COVER CLASS (%)			<u>2-10%</u>	<u>2-10%</u>	
DOMINANT SPECIES			<i>Xanth. pra</i>	<i>W. b. long</i> <i>Gom. p. l. l. l.</i> <i>H. b. v. l. m.</i>	
LIFE FORM	GRASSES	HERBS	SEDGES	OTHER	
	GRASSES	HERBS	SEDGES	OTHER	OTHER
COVER CLASS (%)	<u>30-70%</u>	<u>10-30%</u>			
DOMINANT SPECIES	<i>*H. edg.</i>	<i>C. no. acul.</i> <i>*O. s. can.</i> <i>*Hyp. glab.</i>			

4. VEGETATION CONDITION

1	'PRISTINE'	COMMENTS <i>Cleared at same point,</i> <i>logwood</i> <i>Dec. pine, Rabbits</i>
2	EXCELLENT	
3	VERY GOOD	
4	GOOD	
5	DEGRADED <input checked="" type="checkbox"/>	

Note: Reserve in BS 164 not
 cleared some areas Ekt. edg. to 30-70%
 others 2-10%.

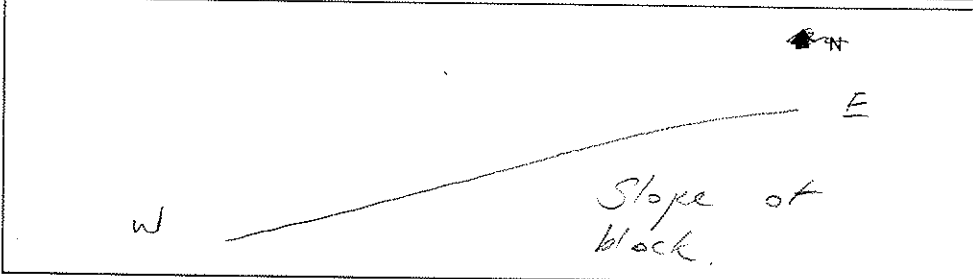
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA BS 164 SITE NUMBER LOT 500
 DATE TRIP 6/8/99 RECORDERS BJK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

From 'Bushtand Plant Survey' written B. Keighery (1994) and published by Wildflower Society of WA (Inc.), PO F 64 Nedlands WA 6008

Mud Map Draw a sketch of the location of the site below.

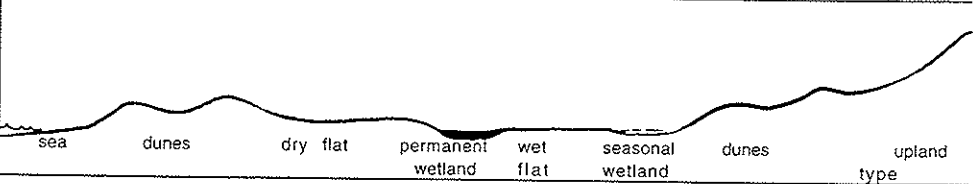


Road Location _____

Geographic Location Latitude _____ S Longitude _____ E Altitude _____
 Reference Map _____

Photograph Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope flat gentle steep Aspect N NE E SE S SW W NW

Surface Soil sand Colour light brown
 Exposed rock type limestone % surface 1%

Sub-surface Soil sand Colour yellow
 Rock _____ type _____ depth to rock _____

Drainage well mod poor depth water _____ cm Wet all year winter/spring

Litter _____ % cover _____
 Depth _____ cm Bare Ground _____ % cover _____

LIFE FORM	TRF			MALLEES		30m 10m
	over 30m	20-30m	under 10m	over 8m	under 8m	
		 to 20-70% 10-30%	 logged structures			
COVER CLASS (%)						
DOMINANT SPECIES		<u>Tuart</u>				
		<u>Marr</u>				
		<u>Tardaks</u>				
LIFE FORM	SHRUBS over 2m		2m - 1m	SHRUBS under 1m		2m 1m
COVER CLASS (%)	10-30%					
DOMINANT SPECIES	<u>Dryandrea sessilis</u>					
LIFE FORM	GRASSES	HERBS	SEDGES	OTHER		1m
COVER CLASS (%)	30-70%					
DOMINANT SPECIES	<u>Veldt</u>					

4. VEGETATION CONDITION

		COMMENTS
1	'PRISTINE'	
2	EXCELLENT	
3	VERY GOOD	
4	GOOD	
5	DEGRADED	<input checked="" type="checkbox"/> <u>Petargonium capitatum</u>

to 10
 Southern band
 Northern band - as above but not Banksia
 clear most of this area
 COND - Good scattered to
 shrub layer < 1m 10-30%

164

BUSHPLAN SITES CORRECTED

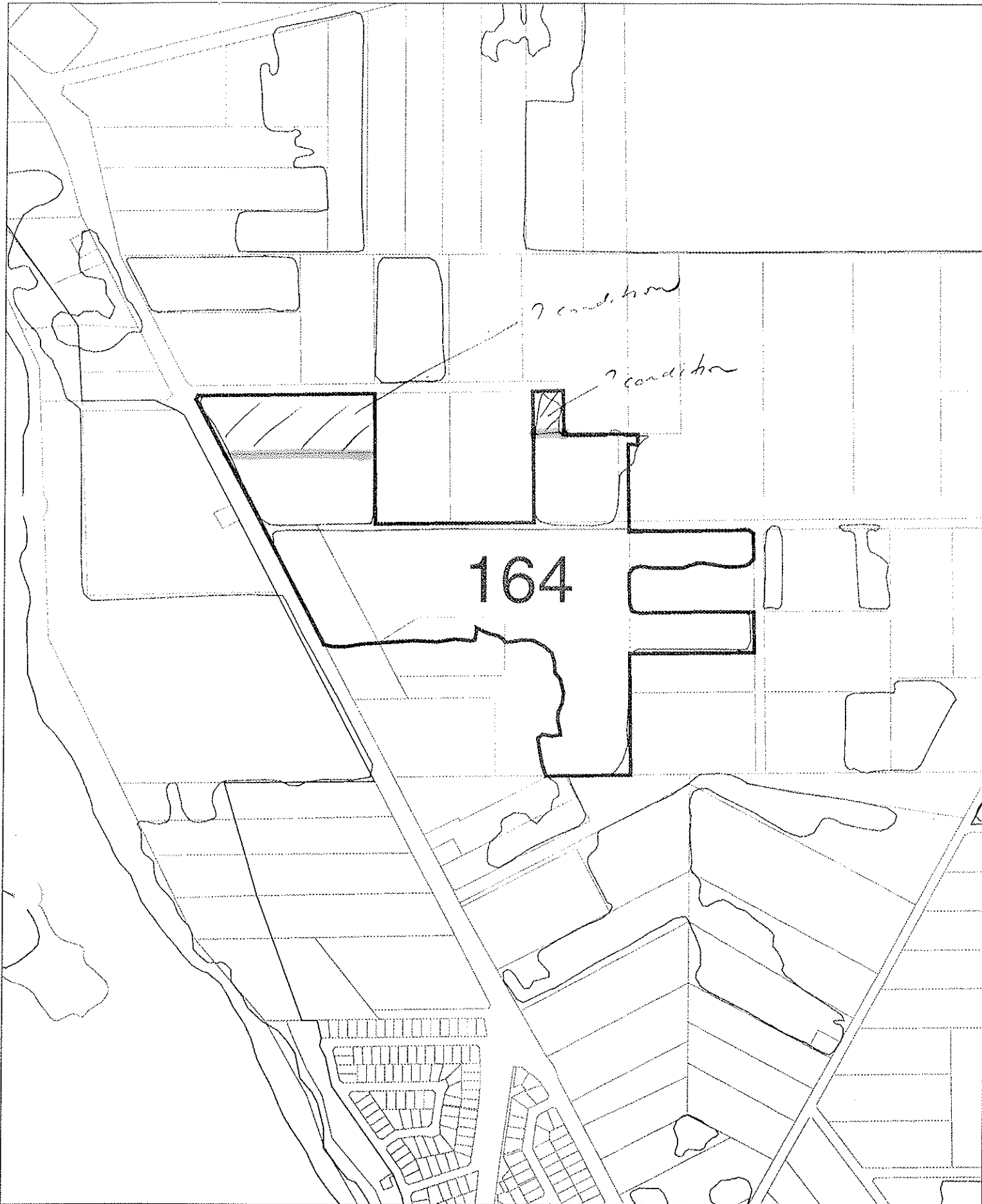


WESTERN
AUSTRALIAN
PLANNING
COMMISSION



✓ NT 15/9
B BK/MG 21/10/78





BUSHPLAN SITES CORRECTED

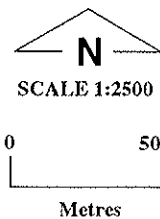


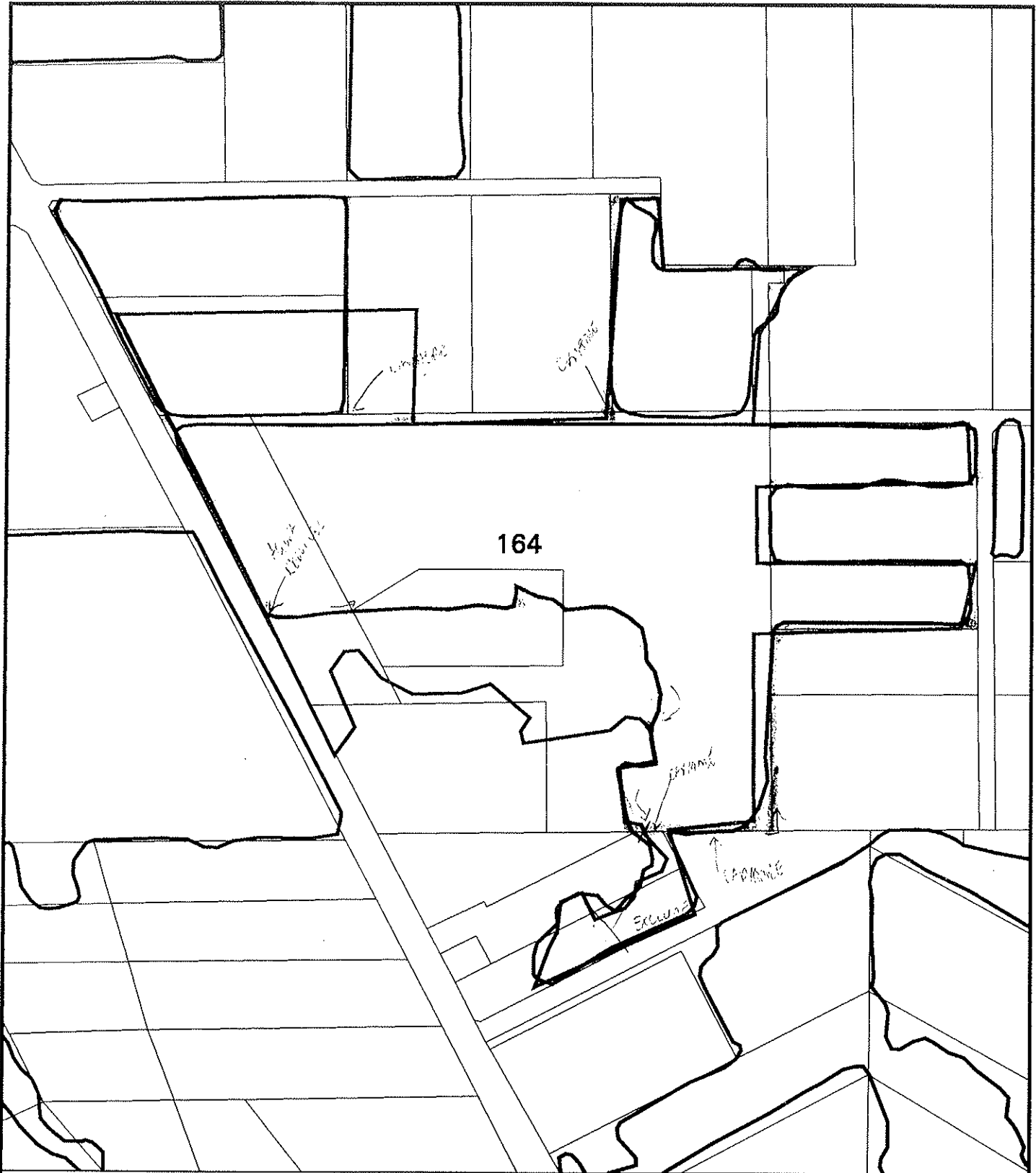
WESTERN
AUSTRALIAN
PLANNING
COMMISSION






CUSTOMER
FOCUS
WESTERN AUSTRALIA

*— BJK boundary
12/8
R DELETE*



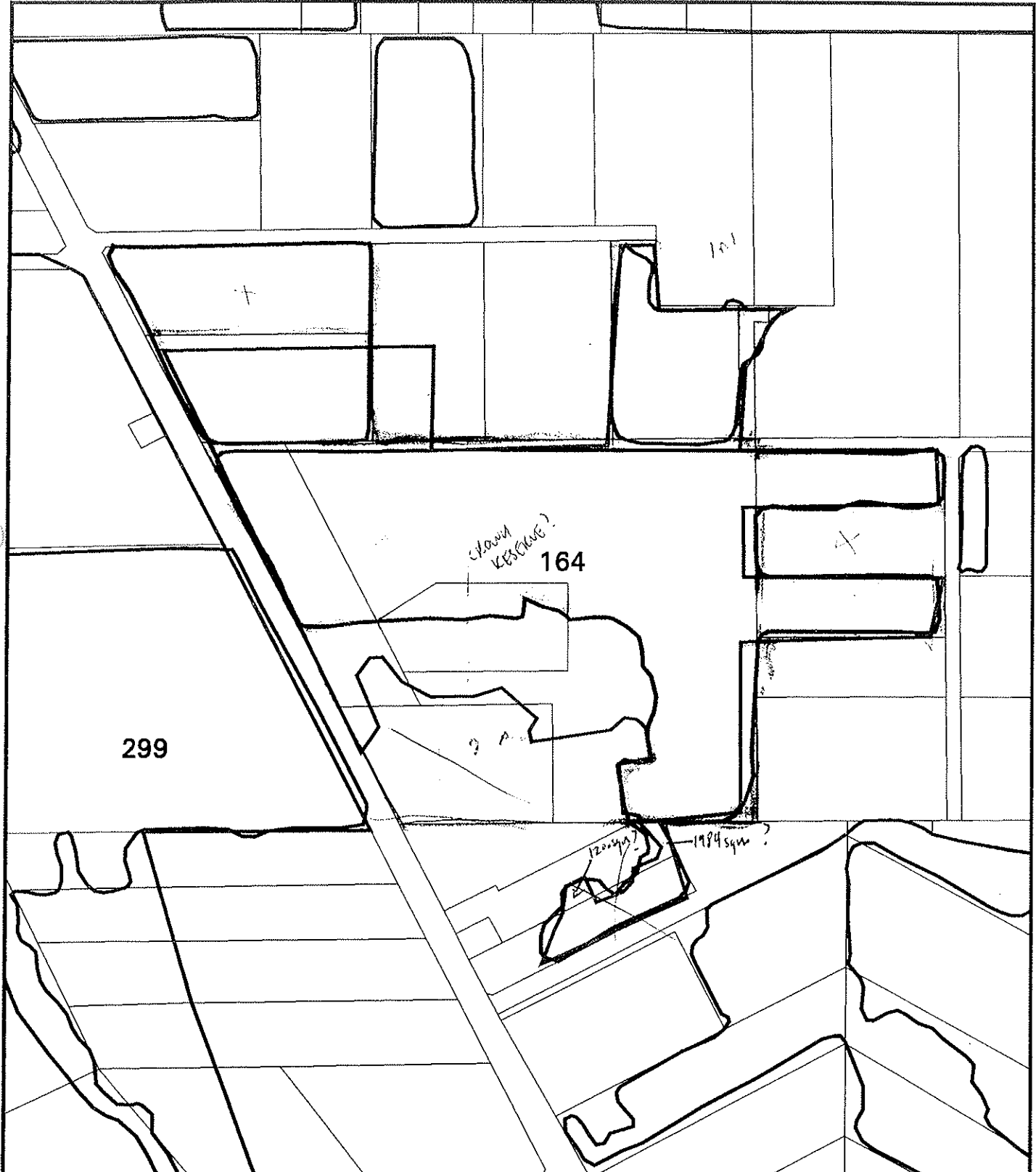


bp site 164

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

MFP INTERNAL USE ONLY
 Prepared By: Andrea Zappacosta
 Prepared For:
 Map Ident: plot980602_1
 Date: 02 Jun 98
 Scale 1:6785

Street Scales

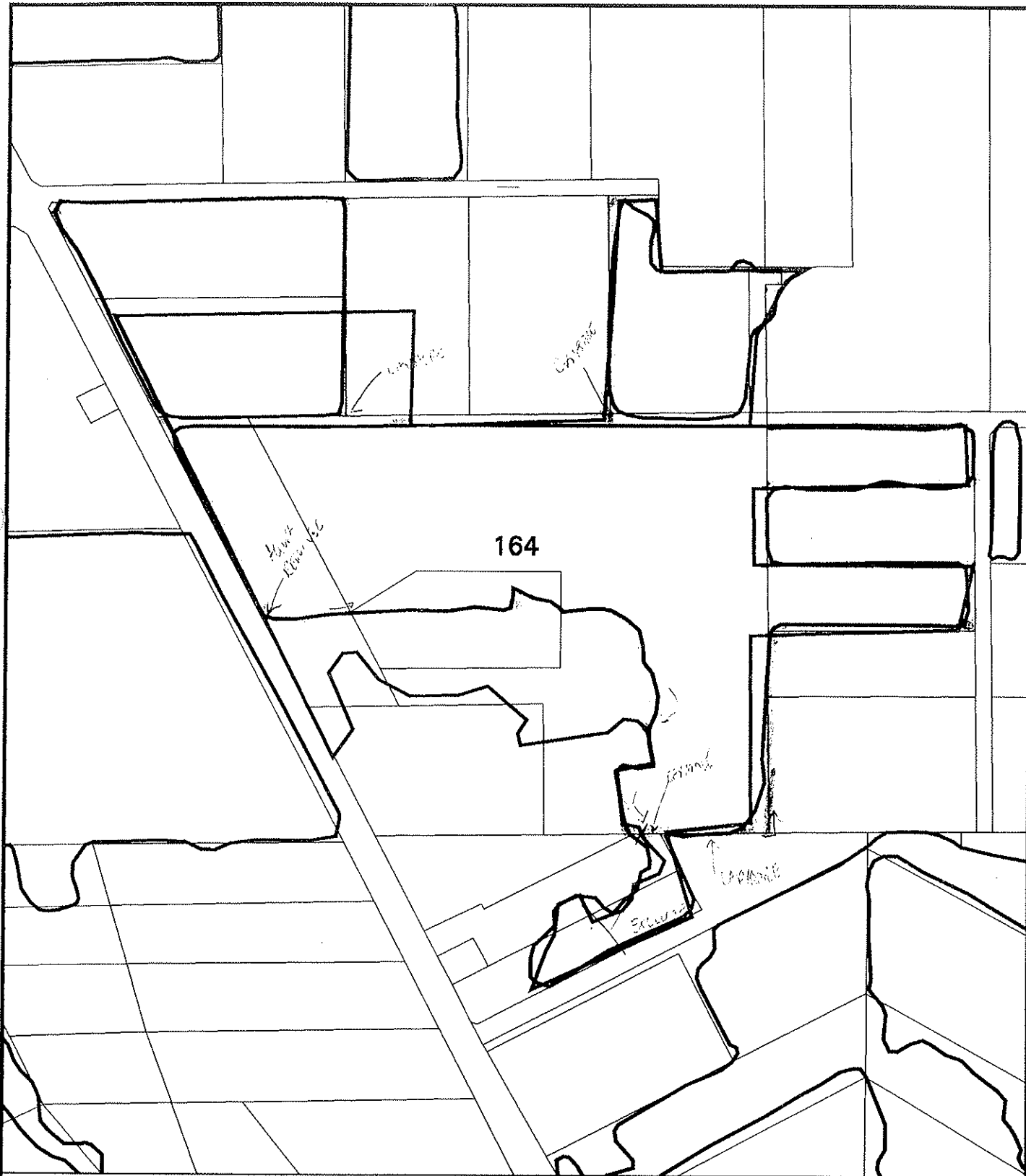


bp site 164




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

* TPS REZONING (ASSESSED BY DEP)
 * STRUCTURE PLANNING.

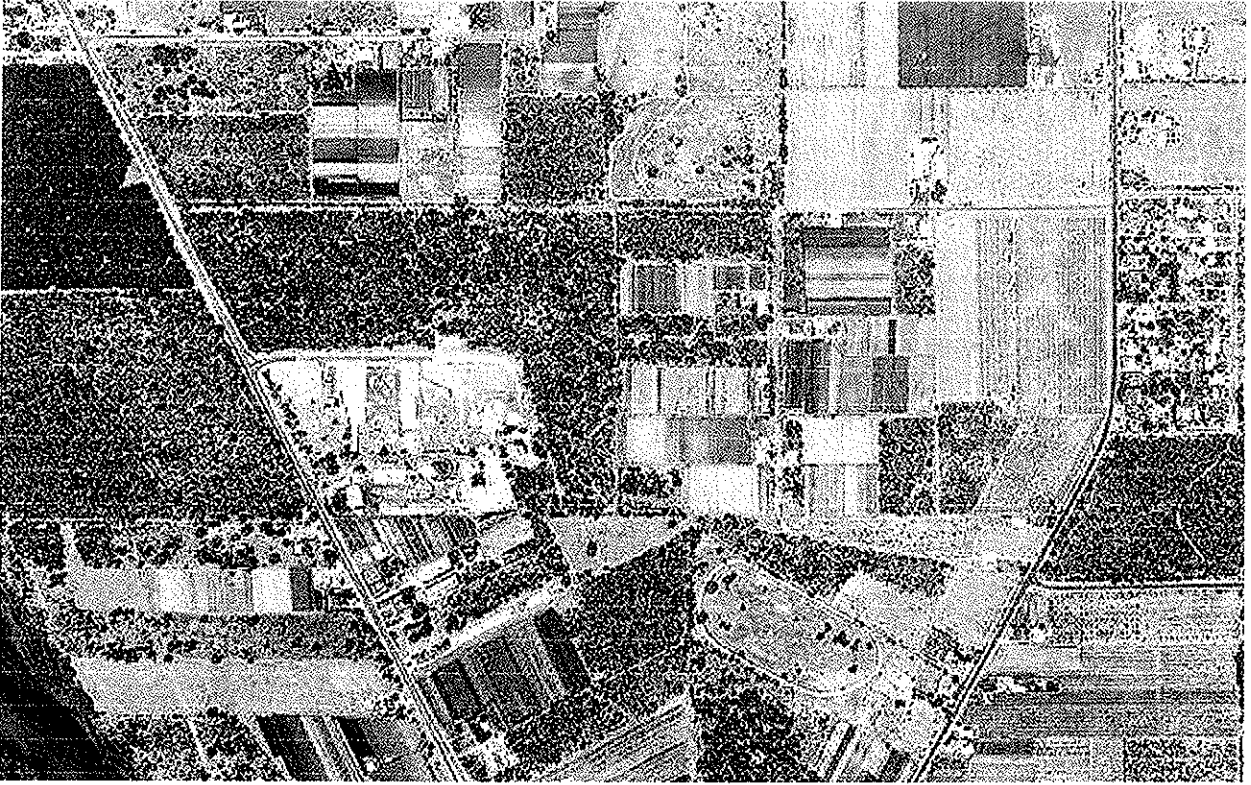
MFP INTERNAL USE ONLY
 Prepared By: Andrea Zappacosta
 Prepared For:
 Map Ident: plot980526_1
 Date: 26 May 98
 Scale 1:7483



bp site 164

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

MFP INTERNAL USE ONLY
 Prepared By: Andrea Zappacosta
 Prepared For:
 Map Ident: plot980602_1
 Date: 02 Jun 98
 Scale 1:6785



1997

BS 164

Panairama

Coalition for Wanneroo's Environment

31 August 1995

The System 6 Study Team
Department of Environmental Protection
141 St. George's Terrace
PERTH WA 6000

Dear Madam / Sir

SYSTEM 6 UPDATE

The Coalition for Wanneroo's Environment is a community based conservation body working in the city of Wanneroo. The protection of bushland and wetlands has been a focus of our work over the past six years.

We support the System 6 Update as a way of identifying and protecting natural areas of regional conservation value. It should aim to secure a system of conservation areas to protect biological and landscape diversity for the long-term. Following are our comments towards the update including nomination of local areas.

The 1983 System 6 report recognised many important areas, but several of the recommendations have not been implemented and many other significant areas were not included. Increased community concern for the environment, especially remnant bushland, and additional information on the ecosystems of the Swan Coastal Plain and their conservation status must be taken note of. The present system of reserves is inadequate; opportunities to add to the conservation estate and connect reserves diminish as land use decisions are made and development occurs.

The map of remnant vegetation within the Perth metropolitan region in the state government's Urban Bushland Strategy shows that the coastal plain has been extensively cleared. Much of that remaining is within the city of Wanneroo, which has about 46% of its bushland intact. This includes vegetation types and landforms which are poorly represented in reserves, for example Quindalup dune system, Karrakatta central and south vegetation complex and Pinjar vegetation complex.

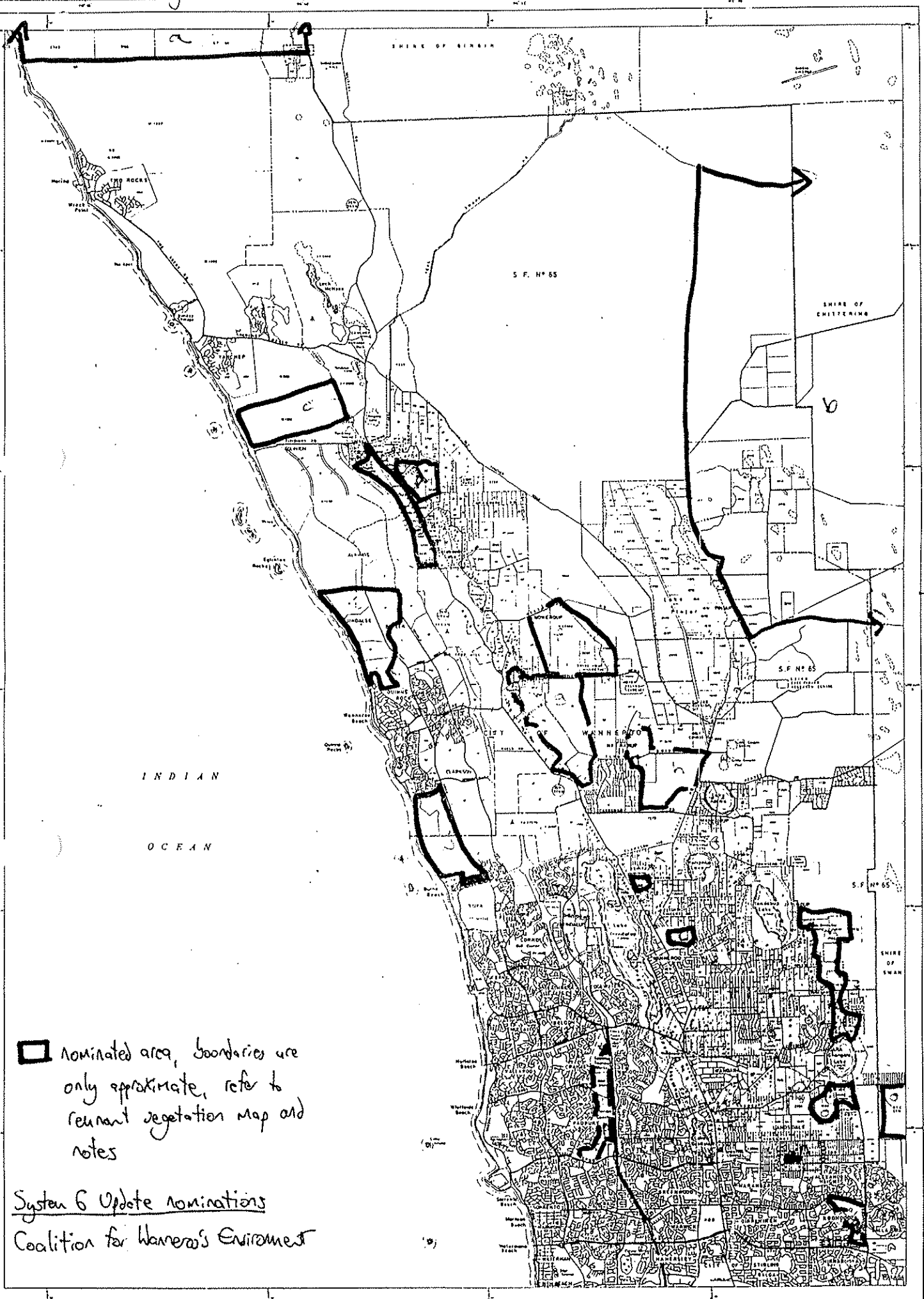
The diversity, condition, size and location of remnant bushland in Wanneroo offers an opportunity to consolidate existing conservation reserves, set aside additional areas for protection and link reserves with bushland corridors. The importance of some areas has been recognised in the Swan Coastal Plain floristics survey, the East Wanneroo wetlands study and other studies.

However, population growth in Wanneroo is rapid and associated development, especially clearing of land for housing, rural-residential subdivisions and infrastructure, threatens the existence or condition of significant bushland and wetlands. Action is needed to protect these areas; in the interim to allow conservation assessment and in the long-term as part of the conservation estate.

We nominate the following areas for consideration in the System 6 Update. These areas include significant bushland and landscapes which warrant inclusion in a regional conservation network. The areas, shown on the attached maps, are noted below.

- (a) • Moore River estuary and land to the south including Wilbinga and Caraban MPA. This covers vegetation and landforms of the Quindalup and Spearwood dunes and could be a large coastal conservation reserve forming a greenbelt north of the metropolitan region. It should link with Wabbling MPA and Yeal Nature Reserve to form an east-west greenbelt across a number of soil and vegetation types on the coastal plain.
- (b) • Bombing Range wetlands and Banksia woodlands north east of Pinjar, which includes RAAF Pearce Air Weapons Range and State Forest. Large, intact area of Banksia woodlands on Bassendean dunes with perched Paperbark damplands. Could form part of a major reserve network linking Yeal Nature Reserve and Melaleuca Park; the proposed Gngangara biological corridor. Situated on recharge area of the Gngangara groundwater mound.
- ✓ (c) • Coastal bushland south of Yanchep townsite, in Yanchep/Eglington. Quindalup dune vegetation that could link the coastal reserve and Yanchep National Park. An east-west belt of open space has been proposed in this area.
- (d) • Limestone heathlands and Tuart-Banksia woodlands near Bernard Road, Carabooda. Cottesloe central and south complex vegetation in excellent to very good condition. Situated near Coogee Spring. Part of potential link between Yanchep National Park, western chain wetlands and Neerabup National Park. Historically important cave.
- ✓ (e) • Remnant bushland between Yanchep and Neerabup National Parks; west of Wanneroo Road, north of Romeo Road. Includes Tuart, Jarrah and Banksia woodlands and limestone heathlands in excellent to very good condition. Forms a link between these conservation reserves. Limestone ridge is landscape feature.
- ✓ (f) • Bushland between Wesco Road and Wattle Avenue including Shire View Hill. Diverse limestone heathlands including rare and uncommon mallee eucalypts (Yanchep Mallee, Rock Mallee and Fremantle Mallee). Limestone Marlock woodlands and merges to Marri-Banksia woodland. Number of vegetation types in very good condition. Carpet python seen near Shire View Hill, suggesting fauna habitat value. Includes high limestone ridges, important landscape feature.
- (g) • Lake Neerabup and adjacent bushland. Linear sumpland including sedgeland; limestone ridge along eastern edge with Tuart and Cheesewood. Large, intact area of bushland to east including limestone heathlands and Tuart and Marri woodlands. Karst features include Orchestra Shell Cave; important Aboriginal heritage site. Adjacent Neerabup National Park and connects with Shire View Hill bushland.
- ✓ (h) • Flynn Drive bushland, Neerabup. Large, intact remnant of Karrakatta central and south complex vegetation. Includes Banksia woodlands in pristine-excellent condition. Occurs between Neerabup National Park and eastern wetland chain and State Forest.
- ✓ (i) • Coastal bushland north of Quinns Rocks. Vegetation in excellent to very good condition, associated with series of parabolic Quindalup dunes. Parrotbush heathland and Banksia woodlands on Cottesloe soils in swales. Recognised in North West Corridor environmental audit.
- ✓ (j) • Coastal bushland between Burns Beach and Mindarie Keys. Significant Quindalup dune landforms and vegetation, includes cusped foreland, parabolic dune and sandsheets. Addition of land north and south would consolidate existing System 6 area and add to vegetation types represented. Part of link between coast and Neerabup National Park. Recognised in several studies as an important area.
- ✓ (k) • Jarrah-Banksia woodland north of Wanneroo Road works depot. Bushland in fair to good condition, with adjoining land west of Wanneroo Road it covers a transect of remnant vegetation from Lake Joondalup inland. Includes mature trees with hollows for birds, adds to bushland habitat in Yellagonga Regional Park.

Moore River - Wilbinge to north



Nominated area, boundaries are only approximate, refer to remnant vegetation map and notes

System 6 Update Nominations
 Coalition for Wanneroo's Environment

LEGEND
 State Forest 000
 Council Rural Area 000
 Council Urban Area 000
 Major Road 000
 Minor Road 000
 Road Reserve 000
 Watercourse 000

Scale 1:125,000



CITY OF WANNEROO
 REGIONAL PLAN

WILD 1574 UA6A
Nr 13037 152.72

100069

-5022-1 267 -57 100 0200 0300 56-

000000 003129 200125 601936