

PHOEBE STREET BUSHLAND, SOUTHERN RIVER

Boundary Definition: bushland (part taken to cadastre) boundary (Boundary adjusted after vegetation survey in response to a submission to draft *Perth's Bushplan*.)

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 340

Area (ha): bushland 7.3

Map no. 61

Map sheet series ref. no. 2033-INE

Other Names: Part Gosnells remnant bushland area 47 (Trudgen and Keighery 1995)

Local Authorities (Suburb): City of Gosnells (Southern River)

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)

VEGETATION AND FLORA

Vegetation Complexes

Combinations of Bassendean Dunes/Pinjarra Plain/Spearwood Dunes

Southern River Complex

Floristic Community Types: *not sampled, types inferred (Trudgen and Keighery 1995)

Supergroup 2: Seasonal Wetlands

*4 *Melaleuca preissiana* damplands

*5 Mixed shrub damplands

Supergroup 3: Uplands centred on Bassendean Dunes and Dandaragan Plateau

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

WETLANDS

Wetland Types: dampland

Natural Wetland Groups

Bassendean — Pinjarra transition OR Bassendean with fluvial features

Bennet Brook (B/P.4)

Wetland Management Objectives: Conservation (3.5ha), 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 (Trudgen and Keighery 1995, part Site — DEP 1999)

Structural Units: mapping (Trudgen and Keighery 1995)

Uplands: Low Open Woodland dominated by *Banksia attenuata*, *B. menziesii*, *B. ilicifolia* and/or *Allocasuarina fraseriana* with scattered *Eucalyptus todtiana* and *Nuytsia floribunda*; *Xanthorrhoea preissii* and *Eremaea pauciflora* Open Heath; *Adenanthos cygnorum* Tall Open Shrubland to Tall Shrubland

Wetlands: *Melaleuca preissiana* and *Nuytsia floribunda* Low Open Woodland; *Regelia ciliata* Heath; *Verticordia densiflora* Low Heath; *Evandra pauciflora* Sedgeland

Vegetation Condition: >70% Very Good to Excellent, <30% Good to Degraded, with areas of severe localised disturbance

Total Flora: not known

Significant Flora: *Jacksonia gracilis*, *Evandra pauciflora*

Fauna: not known

Linkage: no adjacent bushland; part of Greenway 126 (Tingay, Alan & Associates 1998a); part of a regionally significant fragmented bushland/wetland linkage (Part A, Map 7)

Other Special Attributes: bushland recommended to be protected with the purpose of conservation of nature and recreation compatible with the conservation of nature in study of bushland in the City of Gosnells (Trudgen and Keighery 1995); majority Site Category Two Area, Middle Canning Catchment Study (Evangelisti & Associates *et al.* 1995)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Not listed

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, Diversity, General criteria for the protection of wetland, streamline and estuarine fringing vegetation and coastal vegetation,

Recommendation: Strategic Negotiated Planning Solution (see Table 3, Volume 1).

PHOEBE STREET BUSHLAND, SOUTHERN RIVER

Boundary Definition: bushland (part taken to cadastre) boundary

SECTION 1: CADASTRAL INFORMATION

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

Bushplan Site no. 340 **Map no.** 69 **Map sheet series ref. no.** 2033-I NE

Other Names **Area (ha):** total 8.2; bushland 8.2

Part Gosnells remnant bushland area 47 (Trudgen and Keighery 1995)

Local Authorities (Suburb)
City of Gosnells (Southern River)

Zoning
MRS: Urban Deferred, Rural

TPS: Landscape, Rural

Ownership Categories

Private, Not identified

Lot/Location/Reserve numbers (Purpose),

Street name

1 Phoebe St; 2, 3, 4, 5 Matison St

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

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Bassendean Dunes/Pinjarra Plain

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VEGETATION AND FLORA

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Floristic Community Types: *not sampled, types inferred (Trudgen and Keighery 1995)

Supergroup 2: Seasonal Wetlands

*4 *Melaleuca preissiana* damplands

*5 Mixed shrub damplands

Supergroup 3: Uplands centred on Bassendean Dunes and Dandaragan Plateau

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WETLANDS

Wetland Types: dampland

Natural Wetland Groups

Bassendean — Pinjarra transition OR Bassendean with fluvial features
Bennet Brook (B/P.4)

Wetland Management Objectives: Conservation (3.5ha), 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 (Trudgen and Keighery 1995)

Structural Units: mapping (Trudgen and Keighery 1995)

Uplands: *Allocasuarina fraseriana*, *Eucalyptus todtiana* and *Nuytsia floribunda* Low Open Woodland; *Eucalyptus decipiens* Open Mallee Woodland; *Eucalyptus calophylla* Open to Tall Open Woodland; *Xanthorrhoea preissii* and *Eremaea pauciflora* Open Heath; *Adenanthos cygnorum* Tall Open Shrubland to Tall Shrubland

Wetlands: *Melaleuca preissiana* and *Nuytsia floribunda* Low Open Woodland; *Evandra pauciflora* Sedgeland

Vegetation Condition: >50% Excellent to Very Good, <50% Good to Degraded, with areas of severe localised disturbance

Total Flora: not known

Significant Flora: *Jacksonia gracilis*

Fauna: no known information

Linkage: adjacent bushland to the west part of proposed Greenway 142 (Tingay, Alan & Associates 1997a); part of a regionally significant fragmented bushland/wetland linkage (Volume 2A, Map 8)

Other Special Attributes: bushland recommended to be protected with the purpose of conservation of nature and recreation compatible with the conservation of nature in study of bushland in the City of Gosnells (Trudgen and Keighery 1995); majority Bushplan Site Category Two Area Middle Canning Catchment Study (Evangelisti & Associates *et al.* 1995)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Not listed

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, Diversity, General criteria for the protection of wetland, streamline and estuarine fringing and coastal vegetation,

Opportunities and/or Constraints

Opportunities: Bushplan Site/part Bushplan Site subject to Swan and Canning Rivers EPP, Swan Coastal Plain Lakes EPP; location of conservation category wetlands; under TPS Landscape Zoning

Constraints: private land; under MRS Urban Deferred Zoning

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).





3
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340
food
reserve.

BUSHPLAN SITES CORRECTED



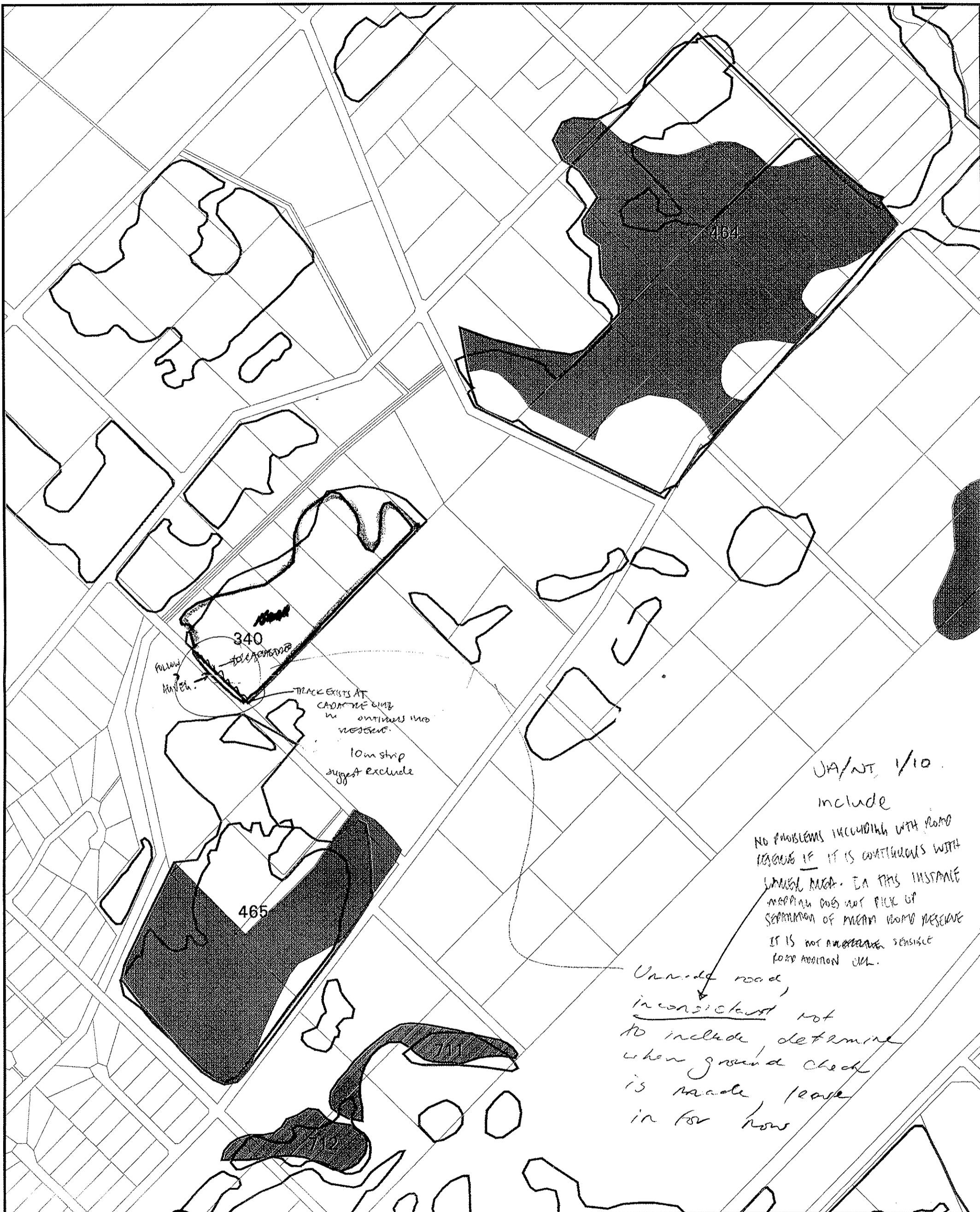
**WESTERN
AUSTRALIAN
PLANNING
COMMISSION**








**CUSTOMER
FOCUS
WESTERN AUSTRALIA**



B BK 28/19



bp site 340, 464-465

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

| | |
|--------------------------------|-----------------------|
| Map Ident: plot980602_1 | DATE: 02 Jun 98 |
| Prepared By: Andrea Zappacosta | Prepared For: |
| Scale 1:AUTO | MFP INTERNAL USE ONLY |

0 500 m

Very OK d.H. Hult
to map exactly, could
be veg to SE
BJK 23/9
This area needs detailed
on ground checks for
boundaries



LEGEND

- BUSHPLAN NATIVE VEGETATION
- CONSERVATION CATEGORY WETLANDS
- BUSHPLAN SITE



SCALE 1:2500



BUSHPLAN SITE 465

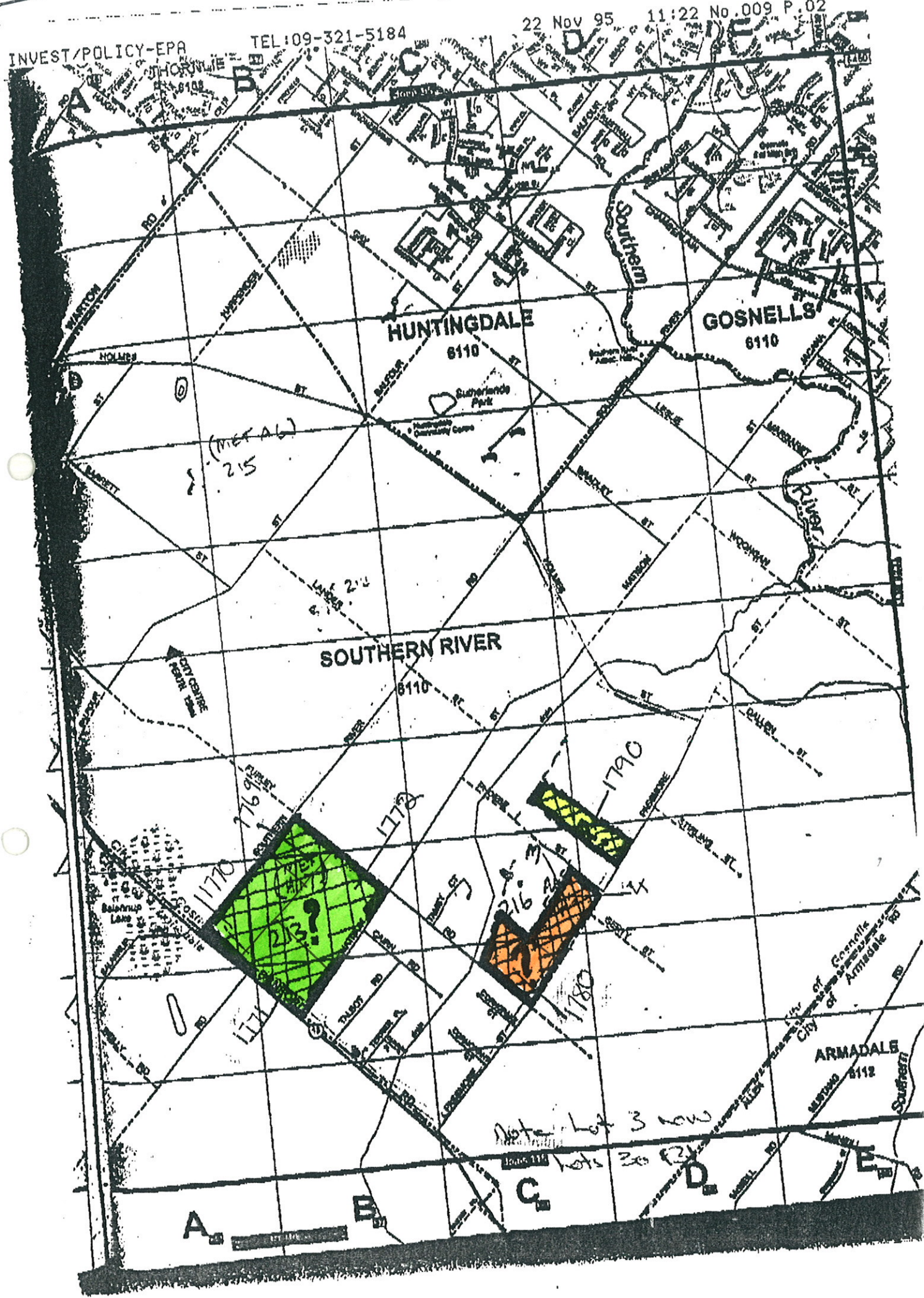
AERIAL PHOTOGRAPHY - ORTHO-RECTIFIED
 ORIGINAL PHOTOGRAPHY - JANUARY 1998 SCALE 1:20000
 POSITIONAL ACCURACY + or - 10 metres



22 Nov 95 11:22 No.009 P.02

INVEST/POLICY-EPA

TEL:09-321-5184



SYSTEM 6 BUSHLAND SUBMISSION FORM FOR CONSIDERATION IN THE UPDATE PROGRAMME

see 57

If you wish to submit more than one area for consideration in the System 6 update, please use a separate form for each area.

Please fill in each section giving as much information as possible.

LOCATION, OWNERSHIP AND ZONING OF THE AREA

1. Location

Please give as accurate and detailed a description as possible of the site location Please include either a hand drawn or copied map showing the area of the area

a) Bordering Roads: Passmore - Furley

b) Nearest Corner: " "

c) Lot Number: 2/1780 Street Number:

d) Town/Suburb/Location: Southern River

e) Local Council: Gosnells

f) Site Name (if any): Passmore - Furley Wetland

g) Approximate size of the area (ha): 12 ha. ?

h) Please locate the area on a map and give us map references if possible:

i) Map: Streetsmart/UBD/Other:

j) Map no.: 105

k) Grid Ref: 38 x 12-13

l) Please give any other information that may help us to find the location:

Map attached

m) Are you aware of any development proposals that are likely to affect the area?

No. - (not at moment)

NOTE: Areas that have already been given development APPROVAL should not be nominated

Please fill out those questions that you can answer

2. Who owns the area? (If owned by the person/s making the nomination please indicate)

3. If you own the area, and may be interested in participating in conservation on private land initiatives please indicate (and leave your name and address at the end of this submission form)

4. What is the area zoned? (please indicate whether zoning is Town Planning Scheme or Metropolitan Region Scheme)

CAN YOU TELL US A LITTLE ABOUT THE PHYSICAL CHARACTERISTICS OF THE AREA

5. Why do you consider this area important? (Refer to Guiding Issues paper)

Botanically rich - poorly represented in reserves
on East side of Swan Coastal Plain

6. What is/are the soil type/s and colours? 10 species of Melaleuca are recorded here.

Type: Sand/Clay/Gravel/Loam/Silt

Colour: White/Grey/Brown/Orange/Yellow/Red/Black

7. Does the area have any special features such as unusual landforms / landscapes that still retain their natural vegetation? Yes/No

If yes, what are they? Wetland vegetation surrounding margin of plants such as Black Gins.

8. Is the area a wetland or does it include a wetland? Yes.

If yes, what kind of a wetlands is it?

a) lake

b) river

c) stream

(d) swamp

e) estuary

(f) seasonally wet

g) other

What percent
CAN YOU TELL US
NOMINATED ARE
10. What per
11. If th
for th

What percentage of the wetland is open water in summer?

CAN YOU TELL US A LITTLE ABOUT THE VEGETATION /FAUNA ON THE NOMINATED AREA.

10. What percentage of the area is indigenous vegetation? 95%

11. If the area includes regions cleared of native bushland please indicate reasons for the inclusion.

12. Has any previous flora or fauna survey work been done on the area?

...yes... Limited Some photos attached

If yes, please give details of the work I've done a basic survey of Flora - attached also area noted in booklet. Wetlands in the "City of Gosnells"

13. How would you rate the condition of the native bushland? (see attached table)

- a) pristine
- b) excellent
- c) very good
- d) good
- e) degraded
- f) completely degraded
- g) don't know

14. Please indicate the disturbances affecting the area and where appropriate the percentage of the area disturbed.

- a) Partial clearing along drain area W side
- b) fragmentation
- c) Selective removal of species: timber cutting, wildflower picking, mowing dieback and other plant diseases
- d) Fire regime, including intensity, season and frequency Completely burnt last summer.
- e) 'Enrichment plantings' that is plantings of species not found in that community
- f) Weed invasion W side near drain.
- g) Animal impact: horses, foxes, rabbits, cats, dogs, camels, goats etc
- h) Soil movement, both removal and dumping
- i) Changes in water regimes; flooding, drainage and watering
- j) Salinity
- k) Fertiliser drift and along waterways nutrient influx
- l) Mining, including that for road works

Thank you for
outcome of
Should w
to have
This

- m) Grazing: stock, overgrazing by feral or native mammals
 - n) Proliferation of tracks, fire breaks and walk trails
 - o) Off-road vehicle use
 - p) Use as service corridors by the SEC, Main Roads, Water Authority.
- (Source: B Keighery. Bushland Plant Survey, September 1994)

15. Does the area contain any plant species of special interest that you know of?
(eg. declared rare flora, priority taxa, outlier populations)

Do you know what they are? *I don't know. This area needs a professional Botanical survey done*

16. Do you know of any native animals that use the area?

Can you list those you know of? (birds, mammals, reptiles, amphibians etc)

17. Is the area used by any native animals of special interest? (eg. endangered species, large/important populations).....

If yes, please name them and indicate source of information

CAN YOU TELL US A LITTLE ABOUT THE SURROUNDING AREA

18. Are there any bushland areas (including wetlands) near to this area?
yes

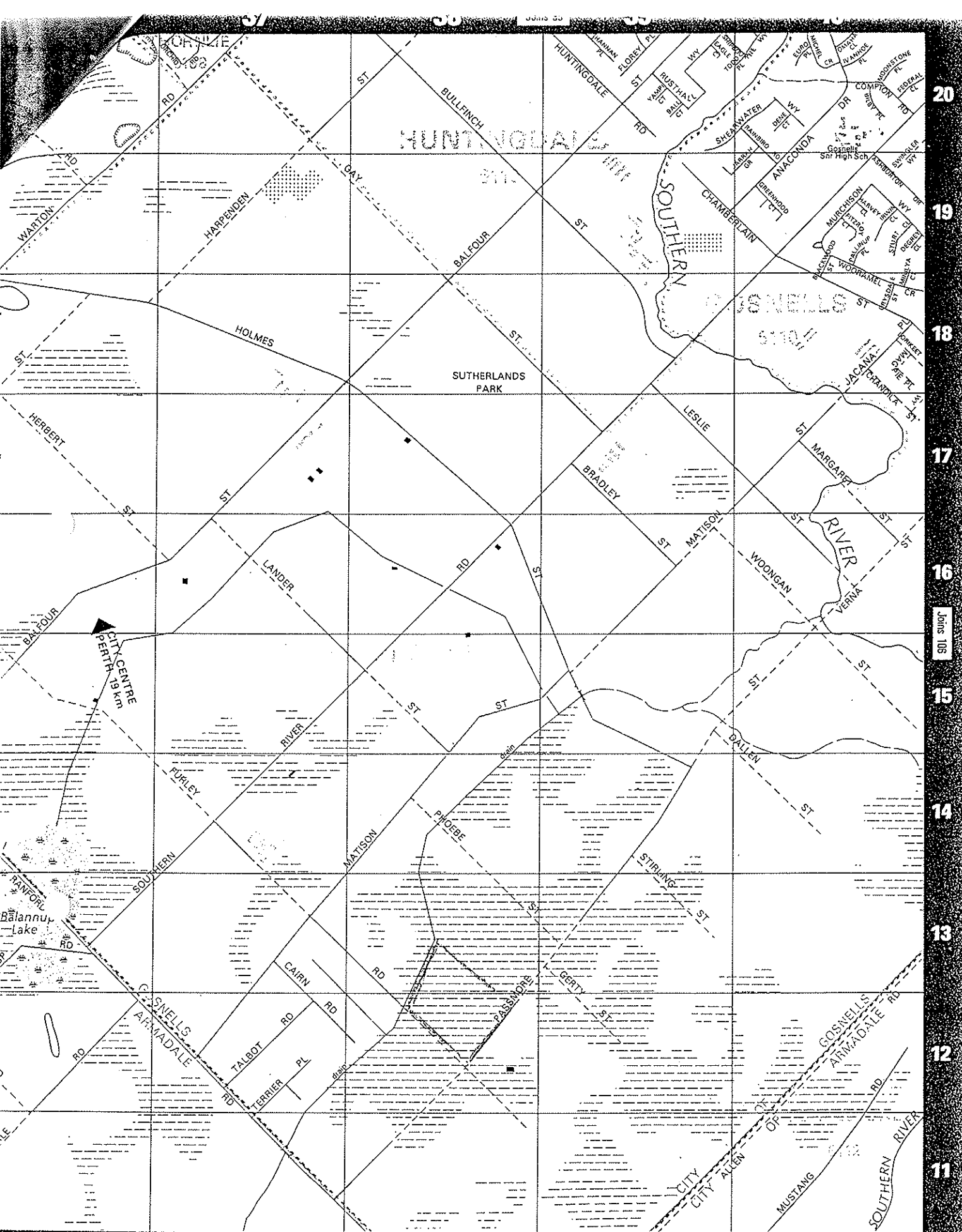
If yes, how close are they? *immediately adjacent (N side)*

Are they already conservation reserves? *No.*

What is their approximate size? *10 ha x.*

19. Does the submitted area link other bushland areas? *yes.*

Please attach any additional information about the area which may be of use when assessing it.



36 37 38 Joins 115 39 40

- POLICE STATION Pol
- HOSPITAL
- POST OFFICE
- PUBLIC TELEPHONE
- TRAFFIC FLOW
- TRAFFIC LIGHTS

FOR COMPREHENSIVE LEGEND, SEE PAGE 3

Map 105

SYSTEM 6 BUSHLAND SUBMISSION FORM FOR CONSIDERATION IN THE UPDATE PROGRAMME

14/5/07

If you wish to submit more than one area for consideration in the System 6 update, please use a separate form for each area.

Please fill in each section giving as much information as possible.

LOCATION, OWNERSHIP AND ZONING OF THE AREA

1. Location

Please give as accurate and detailed a description as possible of the site location Please include either a hand drawn or copied map showing the area of the area

a) Bordering Roads: LASSMORE, FURLEY AND FROBER STREETS

b) Nearest Corner: AS ABOVE

c) Lot Number: 2 AND 1780 Street Number:

d) Town/Suburb/Location: SOUTHERN RIVER

e) Local Council: CITY OF COSMOLE

f) Site Name (if any):

g) Approximate size of the area (ha): APPROXIMATELY 8 HECTARES

h) Please locate the area on a map and give us map references if possible:

i) Map: 4.6 Streetsmart /UBD/Other: 100

j) Map no.: 46

k) Grid Ref: 1 J

l) Please give any other information that may help us to find the location:

m) Are you aware of any development proposals that are likely to affect the area?

NOTE: Areas that have already been given development APPROVAL should not be nominated

Please fill out those questions that you can answer

2. Who owns the area? (If owned by the person/s making the nomination please indicate) PRIVATE

3. If you own the area, and may be interested in participating in conservation on private land initiatives please indicate (and leave your name and address at the end of this submission form)

4. What is the area zoned? (please indicate whether zoning is Town Planning Scheme or Metropolitan Region Scheme)

CAN YOU TELL US A LITTLE ABOUT THE PHYSICAL CHARACTERISTICS OF THE AREA

5. Why do you consider this area important? (Refer to Guiding Issues paper) SITE HAS HIGH BIODIVERSITY VALUES. SOIL WETLAND HABITAT AND USED BY WATERBIRDS FOR BREEDING. BANDICOOTS PRESENT.

6. What is/are the soil type/s and colours ? SAND SILT CLAY

Type: Sand/Clay/Gravel/Loam/Silt
Colour: White/Grey/Brown/Orange/Yellow/Red/Black

7. Does the area have any special features such as unusual landforms / landscapes that still retain their natural vegetation? Yes/No

If yes, what are they? WETLAND

8. Is the area a wetland or does it include a wetland? YES

If yes, what kind of a wetlands is it?

- a) lake
b) river
c) stream
d) swamp SWAMP
e) estuary
f) seasonally wet
g) other

9. What percentage of the wetland is open water in summer? 10%

CAN YOU TELL US A LITTLE ABOUT THE VEGETATION /FAUNA ON THE NOMINATED AREA.

10. What percentage of the area is indigenous vegetation? 50%

11. If the area includes regions cleared of native bushland please indicate reasons for the inclusion.

12. Has any previous flora or fauna survey work been done on the area? NOT OFFICIALLY

If yes, please give details of the work

13. How would you rate the condition of the native bushland? (see attached table)

- a) pristine
- b) excellent EXCELLENT
- c) very good
- d) good
- e) degraded
- f) completely degraded
- g) don't know

14. Please indicate the disturbances affecting the area and where appropriate the percentage of the area disturbed.

- a) Partial clearing
- b) fragmentation
- c) Selective removal of species: timber cutting, wildflower picking, mowing dieback and other plant diseases
- d) Fire regime, including intensity, season and frequency BURNT REGULARITY
- e) 'Enrichment plantings' that is plantings of species not found in that community
- f) Weed invasion
- g) Animal impact: horses, foxes, rabbits, cats, dogs, camels, goats etc
- h) Soil movement, both removal and dumping
- i) Changes in water regimes; flooding, drainage and watering
- j) Salinity
- k) Fertiliser drift and along waterways nutrient influx
- l) Mining, including that for road works

- m) Grazing: stock, overgrazing by feral or native mammals
- n) Proliferation of tracks, fire breaks and walk trails
- o) Off-road vehicle use
- p) Use as service corridors by the SEC, Main Roads, Water Authority.

(Source: B Keighery. Bushland Plant Survey, September 1994)

15. Does the area contain any plant species of special interest that you know of?
 (eg. declared rare flora, priority taxa, outlier populations)

Do you know what they are? THE FLORA HAS VERY HIGH DIVERSITY

16. Do you know of any native animals that use the area? MARLBOROUGH

Can you list those you know of? (birds, mammals, reptiles, amphibians etc)

BIRDS, MARLBOROUGH, REPTILES, AMPHIBIANS,

17. Is the area used by any native animals of special interest? (eg. endangered species, large/important populations).....THE AREA HAS MARLBOROUGH BIRDS

If yes, please name them and indicate source of information

CAN YOU TELL US A LITTLE ABOUT THE SURROUNDING AREA

18. Are there any bushland areas (including wetlands) near to this area?

If yes, how close are they ?500 METERS

Are they already conservation reserves?NO

What is their approximate size?

19. Does the submitted area link other bushland areas?YES

Please attach any additional information about the area which may be of use when assessing it.

see attached. Pd 2. d.

SYSTEM 6 BUSHLAND SUBMISSION FORM
FOR CONSIDERATION IN THE UPDATE PROGRAMME

Same submit as
157

If you wish to submit more than one area for consideration in the System 6 update, please use a separate form for each area.

Please fill in each section giving as much information as possible.

LOCATION, OWNERSHIP AND ZONING OF THE AREA

1. Location *Phoebe St / Finley Rd / Passmore St.*

Please give as accurate and detailed a description as possible of the site location
Please include either a hand drawn or copied map showing the area of the area

a) Bordering Roads:

b) Nearest Corner:

2 + 1780'

c) Lot Number: Street Number:

d) Town/Suburb/Location: *Southern River*

e) Local Council: *Garrick*

f) Site Name (if any):

g) Approximate size of the area (ha):

h) Please locate the area on a map and give us map references if possible:

.....

i) Map: Streetsmart /UBD/Other:

j) Map no.:

k) Grid Ref:

l) Please give any other information that may help us to find the location:

.....

m) Are you aware of any development proposals that are likely to affect the area?

*Common area may be cleared to
create bush local protection measures.*

NOTE: Areas that have already been given development APPROVAL should not be nominated

Please fill out those questions that you can answer

2. Who owns the area? (If owned by the person/s making the nomination please indicate) *Private*

3. If you own the area, and may be interested in participating in conservation on private land initiatives please indicate (and leave your name and address at the end of this submission form)

4. What is the area zoned? (please indicate whether zoning is Town Planning Scheme or Metropolitan Region Scheme) *Rural * Not rezoned to Urban - looking at area because of cons values -*

CAN YOU TELL US A LITTLE ABOUT THE PHYSICAL CHARACTERISTICS OF THE AREA *MFP*

5. Why do you consider this area important? (Refer to Guiding Issues paper) *Diversity, habitat - likely important botanical values recognised by local heritage authorities in the area - see also MFP Bulletin 7/17.*

6. What is/are the soil type/s and colours?

Type: Sand/Clay/Gravel/Loam/Silt
Colour: White/Grey/Brown/Orange/Yellow/Red/Black

7. Does the area have any special features such as unusual landforms / landscapes that still retain their natural vegetation? Yes/No

If yes, what are they?

8. Is the area a wetland or does it include a wetland?

If yes, what kind of a wetlands is it?

- a) lake
- b) river
- c) stream
- d) swamp
- e) estuary
- f) seasonally wet
- g) other

9. What percentage of the wetland is open water in summer?

CAN YOU TELL US A LITTLE ABOUT THE VEGETATION /FAUNA ON THE NOMINATED AREA.

10. What percentage of the area is indigenous vegetation?

11. If the area includes regions cleared of native bushland please indicate reasons for the inclusion.

12. Has any previous flora or fauna survey work been done on the area?

If yes, please give details of the work

13. How would you rate the condition of the native bushland? (see attached table)

a) pristine

Practically undisturbed but some

b) excellent

c) very good

d) good

e) degraded

f) completely degraded

g) don't know

14. Please indicate the disturbances affecting the area and where appropriate the percentage of the area disturbed.

a) Partial clearing

b) fragmentation

c) Selective removal of species: timber cutting, wildflower picking, mowing dieback and other plant diseases

d) Fire regime, including intensity, season and frequency

e) 'Enrichment plantings' that is plantings of species not found in that community

f) Weed invasion

g) Animal impact: horses, foxes, rabbits, cats, dogs, camels, goats etc

h) Soil movement, both removal and dumping

i) Changes in water regimes; flooding, drainage and watering

j) Salinity

k) Fertiliser drift and along waterways nutrient influx

l) Mining, including that for road works

- m) Grazing: stock, overgrazing by feral or native mammals
- n) Proliferation of tracks, fire breaks and walk trails
- o) Off-road vehicle use
- p) Use as service corridors by the SEC, Main Roads, Water Authority.

(Source: B Keighery. Bushland Plant Survey, September 1994)

15. Does the area contain any plant species of special interest that you know of?
(eg. declared rare flora, priority taxa, outlier populations) *C. ...*

Do you know what they are? *... certainty.*

16. Do you know of any native animals that use the area?

Can you list those you know of? (birds, mammals, reptiles, amphibians etc)

17. Is the area used by any native animals of special interest? (eg. endangered species, large/important populations).....

If yes, please name them and indicate source of information

CAN YOU TELL US A LITTLE ABOUT THE SURROUNDING AREA

18. Are there any bushland areas (including wetlands) near to this area?

If yes, how close are they ?

Are they already conservation reserves?

What is their approximate size?

19. Does the submitted area link other bushland areas?

Please attach any additional information about the area which may be of use when assessing it.

10 species of Melaleuca.

Passmore

284 COMMERCIAL RD.
FORRESTDALE 5112

Myrtaceae.

Melaleuca incana

M. viminea

M. lateriflora

M. laterita

M. preissiana

M. raphiophylla

M. teretifolia

M. uncinata

M. thymoides

M. seriata

Astoriaea fascicularis

Beaufortia squarrosa

Calothamnus lateralis

Calytrix aurea

Verticallymma ellipticum

Verticordia densiflora

Regelia ciliata

Calytrix fraseri

Hypocalymma angustifolium

Eucalyptus todtiana

Dasygonaaceae

Kingia australis

Dasygona bromeliifolia

Grey Honeymyrtle - dense thickets.

Mohan . all over area.

Gorada - small area W side

Robin Red Breast Bush - common.

Modong Paperbark - several E side

Freshwater Paperbark - several

Banbar a few a mile W of overp

Broom Honeymyrtle . Montef

over E area.

several N side

Sand Bottlebrush

Swamp Teatree.

Pink Summer Calytrix

White Myrtle

Prickly Bark

Black Gin

Very tall.

Pineapple Bush

thorn hooaceae

preissii

Black boy

Vegetation of Passmore - Furley Cont. 2

FROM D.F. JAMES
284 COMMERCIAL RD
FORRESDALE 5112

Proteaceae

| | |
|--------------------------------|-----------------------|
| <i>Adenanthos cygnorum</i> | Woolly Bush |
| <i>Banksia telmatiaea</i> | Swamp Fox Banksia |
| <i>B. menziesii</i> | Firewood Banksia |
| <i>Dryandra nisea</i> | Couch Honeypot. |
| <i>Hakea varia</i> | Variable-leaved Hakea |
| <i>H. sulcata</i> | Furrowed Hakea |
| <u><i>Petrophile media</i></u> | |
| <u><i>P. seminuda</i></u> | |
| <i>Stirlingia latifolia</i> | Blue boy |

Fabaceae

| | |
|--------------------------------|------------------|
| <i>Borriera eriocarpa</i> | Common Brown Tea |
| <i>Eutaxia virgata</i> | |
| <i>Jacksonia sternbergiana</i> | |
| <i>Viminaria juncea</i> | Swishbush |
| <i>Jacksonia sericea</i> | |

Zamiaceae

| | |
|---------------------------|------------|
| <i>Macrozamia riedlei</i> | Zamia Palm |
|---------------------------|------------|

Anthericaceae

| | |
|------------------------------|--------------------|
| <i>Corynotheca micrantha</i> | Sand Lily |
| <i>Tricoryne elatior</i> | Yellow Autumn Lily |

Haemodoraceae

| | |
|-------------------------------|----------------------|
| <i>Anigozanthos manglesii</i> | Mangles kangaroo Paw |
| <i>Conostylis aurea</i> | Golden Conostylis |
| <i>C. festucacea</i> | |
| <i>C. canescens</i> | <u>Red Bugles</u> |

Vegetation of Passmore - Furley Cont.

FROM D.F. JAMES
284 COMMERCIAL RD
FORRESTDALE 5112

Mimosaceae

Acacia saligna

Golden Wreath Wattle

A. sp.

A. pulchella

Prickly Moses

Casuarinaceae

Allocasuarina fraseriana

Fraser's Sheoak

A. humilis

Dwarf Sheoak

Loranthaceae

Nuytsia floribunda

Christmas Tree

Iridaceae

Satersonia occidentalis

Purple Flag

Thymelaeaceae

Simalea lanata

Goodeniaceae

Dampiera linearis

Common Dampiera

Goodenia sp.

Restionaceae

Leptocarpus canus

Hoary Twine-rush

Loxocarya fasciculata

Cyperaceae

Mesomelaena tetragona

Semaphore Sedge

Lepidosperma sp.

Lauraceae

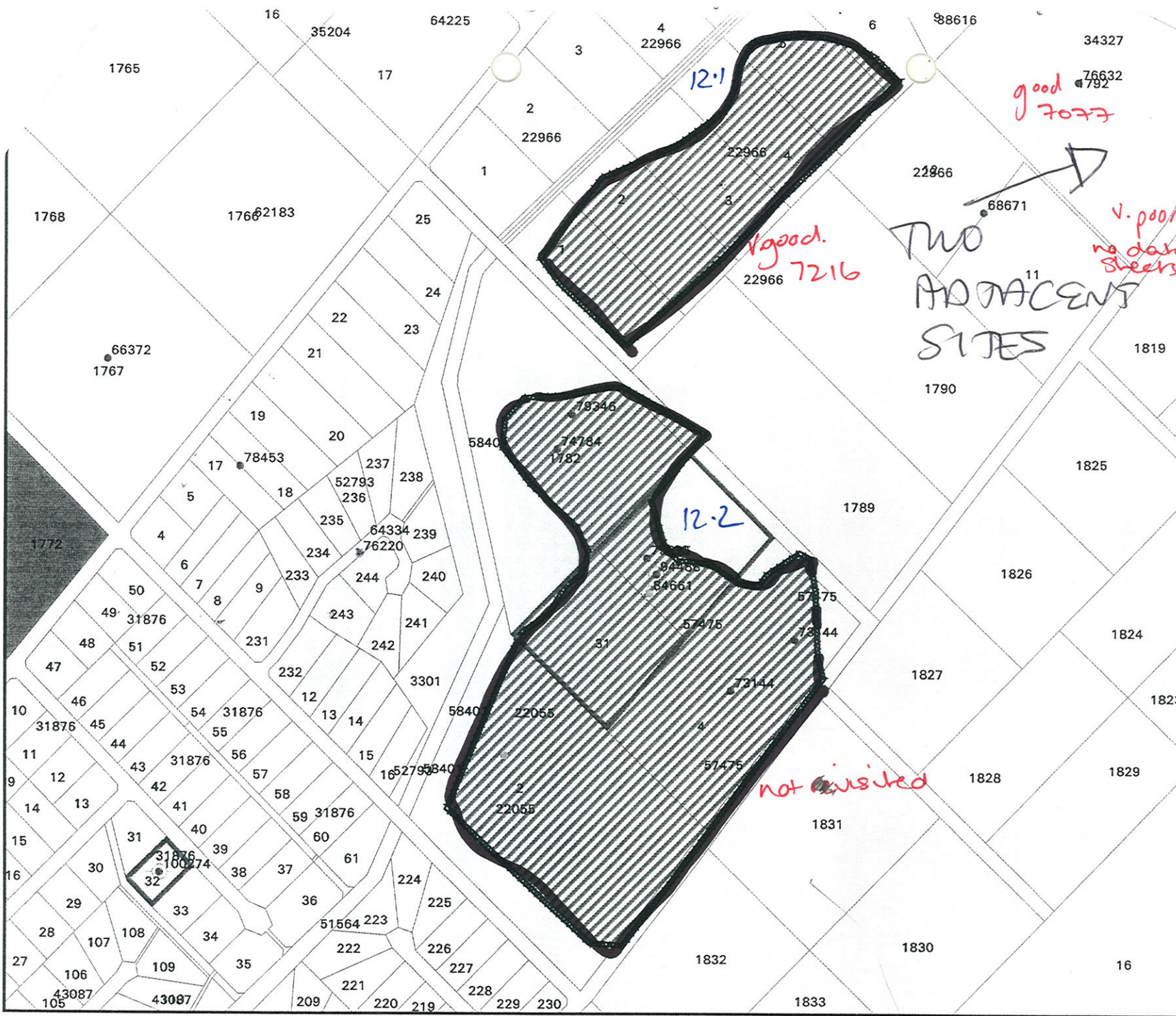
Cassytha racemosa

Dodder-laurel

Epacridaceae

Astroloma pallidum

Pale Heath



RSB Southern River 12 West

- REFUSED
- APPROVED
- REFUSED
- Appealed and decided
- URBAN DEFERRED
- RURAL
- PARKS & RECREATION
- WATER CATCHMENT
- Southern River Complex
- Priority three flora
- Priority four flora
- Cadastre with Lot Numbers

- Area to north currently Urban in MRS and South Rural
 - Proposed Urban in RSPlan for area

Map Ident: plot970429_1
 Prepared By: Kieron Beardmore
 Prepared For: Kieron Beardmore
 Date: 29 Apr 97
 Scale 1:4987
 0 125 m
 MFP INTERNAL USE ONLY

BUSHPLAN REVIEW AND FIELD CHECKING

Passmore Street along from (7077)

MFP Ref. No. 7216 UBD Ref. 105 Area ha Suburb. Gosnells

Film No. Photo No. Date 18/9/96 Surveyors EB/KD

Vegetation Complex: Southern River

Special Features

Association. 3. *Banksia ilicifolia*, *Banksia attenuata*, *Banksia menziesii*, *Eucalyptus todtiana*, mixed shrub understorey as (1)

.....

Percentage Weeds: <20% 20-40% 40-80% >80%

Common Weeds

.....

.....

Condition: V.Good; Good; Moderate; Poor; V.Poor

Association. 4. *Melaleuca preissiana* trees

.....

.....

Percentage Weeds: 40-80%

Common Weeds

.....

.....

Condition: Poor;

General Comments. Must preserve for variety and condition. Passmore Road - Swamps at road edge very degraded. Remainder good - very good. Several plant associations present.

.....

.....

BUSHPLAN REVIEW AND FIELD CHECKING

Matison Street

MFP Ref. No...7077.....UBD Ref...105.....Area.....ha Suburb. Westfield/Gosnells

Film No..... Photo No.....Date...12/9/96.....Surveyors.....EB / KD.....

Vegetation Complex: Southern River

Special Features: Swampy area

Association. 1. *Banksia menziesii, Banksia ilicifolia, Banksia attenuata, Eucalyptus marginata, Eucalyptus todtiana, Jacksonia sternbergiana, Hybanthus calycinus.* Association 5.

Percentage Weeds: 20-40%

Common Weeds. Annual weeds, Perennial veldt. Weeds mainly along firebreaks. Yellow sand.

.....

Condition: Good;

Association. 2. *Melaleuca preissiana, Regelia ciliata, Xanthorrhoea preissii, Juncus, Acacia saligna, few Eucalyptus todtiana* above. Association 4. Grey Moist Sand.

Percentage Weeds: 40-80%

Common Weeds. Annual weeds, main understorey, Kikuyu, *Leptospermum laevigatum*.

.....

.....

Condition: Moderate;

3. Marri Woodland

General Comments. Some parts excellent others degraded due to grazing.

.....

.....

BUSHPLAN REVIEW AND FIELD CHECKING

Moore Street

MFP Ref. No..7077.... UBD Ref.....Area.....ha Suburb Westfield/Gosnells.

Film No..... Photo No.....Date...18/9/96.....Surveyors...EB/KD.....

Vegetation Complex: Southern River

Special Features.....

Association. 1. *Blancoa canescens*, few Sheoaks, *Pimelea rosea*, *Hypolaena* sp. not flowering.

.....

.....

Percentage Weeds: <20%

Common Weeds. Mainly annuals

.....

.....

Condition: V.Good;

Association. 4. Sedgeland. *Phlebocarya ciliata*, *Tetraria octandra*, *Dasyogon bromeliifolius*, *Xanthorrhoea brunonis*, *Hypolaena exsulca*, *Schoenus curvifolius*, *Lyginea barbata*, *Adenanthos meisneri*, *Lepidosperma gladiatum*.

Percentage Weeds: <20%

Common Weeds. Mainly annual

.....

Condition: V.Good;

General Comments. 2. Bushland on Moore Street excellent road not through. Well worth retaining for the different vegetation associations and condition. Average good to very good. Very good area. Small areas of degradation but well worth preserving.

.....

URBAN BUSHLAND RESERVES

Matson Street

Reserve Number...7077.....UBD Ref...105.....Area.....ha Suburb. Westfield/Gosnells

Film No..... Photo No.....Date...12/9/96.....Surveyors.....EB / KD.....

Soil Complex. Southern River

Special Features. Swampy area

Association. 1. *Banksia menziesii*, *Banksia ilicifolia*, *Banksia attenuata*, *Eucalyptus marginata*, *Eucalyptus todtiana*, *Jacksonia sternbergiana*, *Hybanthus calycinus*. Association 5.

Percentage Weeds: 20-40%

Common Weeds. Annual weeds, Perennial veldt. Weeds mainly along firebreaks. Yellow sand.

.....

Condition: Good;

Association. 2. *Melaleuca preissiana*, *Regelia ciliata*, *Xanthorrhoea preissii*, *Juncus*, *Acacia saligna*, few *Eucalyptus todtiana* above. Association 4. Grey Moist Sand.

Percentage Weeds: 40-80%

Common Weeds. Annual weeds, main understorey, Kikuyu, *Leptospermum laevigatum*.

.....

.....

Condition: Moderate;

3. Marri Woodland

General Comments. Some parts excellent others degraded due to grazing.

.....

.....

URBAN BUSHLAND RESERVES

Moore Street

Reserve Number..7077.... UBD Ref.....Area.....ha Suburb Westfield/Gosnells.

Film No..... Photo No.....Date...18/9/96.....Surveyors...EB/KD.....

Soil Complex. Southern River

Special Features.....

Association. 1. *Blancoa canescens*, few Sheoaks, *Pimelea rosea*, *Hypolaena* not
flowering.

.....

.....

Percentage Weeds: <20%

Common Weeds. Mainly annuals

.....

.....

Condition: V.Good;

Association. 4. Sedgeland. *Phlebocarya ciliata*, *Tetraria octandra*, *Dasyogon*
bromeliifolius, *Xanthorrhoea brunonis*, *Hypolaena exsulca*, *Schoenus*
curvifolius, *Lyginea barbata*, *Adenanthos meisneri*, *Lepidosperma*
gladiatum.

Percentage Weeds: <20%

Common Weeds. Mainly annual

.....

Condition: V.Good;

General Comments. 2. Bushland on Moore Street excellent road not through. Well worth
retaining for the different vegetation associations and condition.
Average good to very good. Very good area. Small areas of
degradation but well worth preserving.

.....

BUSHPLAN REVIEW AND FIELD CHECKING

Passmore Street (along from 7077)

MFP Ref. No. 7216.....UBD Ref....105.....Area.....ha Suburb. Southern River..

Film No...1... Photo No 10,11,12,13 ..Date....18/9/96.....Surveyors....EB/KD.....

Vegetation Complex: Southern River

Special Features: Grey sand

Association. 1. Mainly Banksia woodland. *Eucalyptus marginata*, *Banksia menziesii*,
Banksia attenuata, *Blancoa canescens*, *Eucalyptus marginata*, *Hibbertia*
hypericoides, *Schoenus curvifolius*.

Percentage Weeds: 20-40%

Common Weeds. Annuals, *Gladiolus caryophyllaceus*, Perennial Veldt.

.....

.....

Condition: Good;

Association. 2. *Pericalymma ellipticum*, *Regelia ciliata*, *Melaleuca cuticularis*, Sedges,
Adenanthos obovatus, *Euchilopsis linearis*, *Hypocalymma angustifolium*.

.....

Percentage Weeds: <20%

Common Weeds. Cape tulip, perennial veldt.

.....

.....

Condition: V.Good;

General Comments Burnt about 2 years ago. Some sections degraded and should not be
considered for retaining.

.....

.....

.....

Taylor Burrell

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Email burrell@iinet.net.au

BS 340

124

PB152

Facsimile

| | |
|--------------------------------|------------------|
| Attention David Nunn | Date 30/4/99 |
| From Lex Barnett | Facsimile number |
| Subject Bushplan Submission | Total pages 9 |

Dear David,
Following is a submission on Bushplan on behalf of Southern River Landowners.
Original is following by courier.

Regards



LEX
Cc Adam Brown 9481 8908
Mike Bishaw

MINISTR OR
PLANN 3
03 MAY 1999
FILE 805-2-1-32P-12

SUBMISSION NO. 1803

Taylor Burrell

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123

30 April 1999

Our Ref: 95/050 LB/tjo

Ministry for Planning
 Albert Facey House
 469-489 Wellington Street
 PERTH WA 6000

**Attention: Mr David Nunn
 Manager Environmental Planning Branch**

Dear Sir

Re: Southern River Landowners Group - Submission on Perth's Bushplan

This office acts on behalf of the Southern River Landowners Group, a group of landowners within an area bounded by Matison, Woongan, Passmore and Phoebe Streets in Southern River. A plan showing the location of the group's landholding is attached (Figure 1) to this correspondence.

The owners have instructed this office, with the assistance of Bowman Bishaw Gorham, Environmental Management Consultants, to convey their opposition to the Bushplan, both in terms of the general principle, and the detailed proposals, as they affect their landholding.

Perth's Bushplan identifies two sites within the subject area;

1. Site No. [REDACTED] - Phoebe Street Bushland
2. Site No. [REDACTED] - Matison Street Bushland.

A plan showing the location of these bushland sites, relative to the boundaries of the subject area is also attached (refer Figure 2).

Prior to explaining the basis for the landowners objections to Bushplan, it is important to appreciate the history behind the initial formation of the landowners group, and the actions that the government (in the first instance) and the landowners (subsequently) have taken in recent times to pursue urban development.

1. Background

In May 1994, the government amended the Metropolitan Region Scheme (MRS) to rezone the subject land from Rural to Urban Deferred, sending an implicit message to the landowners that the government considered this and surrounding land in Southern River to be appropriate for urbanisation, subject to more detailed planning.

On the strength of this, a landowners group was formed in April 1995 to pursue a local authority rezoning consistent with the intent of the recent MRS amendment.

The fourteen landowners appointed town planning, engineering, environmental, hydrological, geotechnical and acoustic consultants to undertake the necessary investigations to support the rezoning proposal. With the input of these specialist disciplines, a local structure plan was prepared to support the rezoning application, and to show the development of approximately one thousand dwellings, a

Toddville Prospecting Pty Ltd DIRECTORS
 ACN 008 735 153 William M Burrell MIS Aust, LFRAPI • Lex Barnett MRAP
 SENIOR ASSOCIATE
 Peter Clements MRAP
 ASSOCIATES
 Samantha Montgomery • Karen Wright

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primary school, neighbourhood shopping centre, and a significant public open space and drainage system.

After several months of consultation with the local authority, the City of Gosnells in early 1997, resolved to advise the landowners that it would be prepared to initiate a rezoning amendment after the Ministry's draft District Structure Plan for Southern River was made available to Council. At that stage, it was anticipated that the Structure Plan would be released in about May of the same year.

It transpired that the Western Australian Planning Commission (WAPC) decided not to release the Structure Plan prior to the release of Bushplan. The main concern of the Commission was that, given the expected imminence of Bushplan, it should ensure that the District Structure Plan was not in conflict with that document. At that stage, Bushplan was expected to be released in approximately August 1997.

Essentially, the landowners efforts and initiatives were brought to a halt, as a result of the government's own planning initiatives which were seemingly imminent at the time, but were ultimately not so; in the case of Bushplan, it was a further 15 months before the initial document was ultimately released; and in the case of the District Structure Plan, this is still at least some months away from being presented to the public in any meaningful form.

The landowners have demonstrated a genuine intent to develop the land for urban purposes, but in an environmentally responsible manner. The landowners efforts were originally ignited by the government's own actions, and they have in the interim, expended considerable effort and expense to pursue the urbanisation path, whilst in the meantime a separate government initiative now threatens to cause those efforts and expenses to have been in vain.

2. Basis for Landowners Objection

In essence, the landowners object totally to the identification of any land within the subject area as regionally significant bushland, and the purpose of this submission is primarily to request that sites 340 and 464 are removed from Bushplan. There are a number of reasons to justify the landowners position, and these will be outlined in the balance of the submission; however, the essence of the objection may be summarised in the following points:

- The method of seeking to impose Bushplan is unjust and inequitable; sites such as those included within the subject area have been identified based on cursory and questionable research, and the onus, as well as the expense, now falls upon the landowner to prove that their land should not be included.
- The Bushplan strategy is fundamentally flawed and inadequate, in that it has not properly addressed important issues of compensation/acquisition and ongoing care and management of Bushplan areas.
- Bushplan appears to be fundamentally based on inequitable principles; it has essentially been produced as a measure to protect the quality of the environment for the broader community and yet, with the exception of a minor proportion of bushland areas which have been earmarked for acquisition, the burden has been primarily placed upon a small number individual landowners; this is a strategy which should be wholly and equally funded by the broader community.

2.1 Community Equity

The Bushplan strategy appears to have been developed around a principle of imposing the burden of environmental protection on a few landowners, for the benefit of the whole community.

It is important that it is understood that many of the landowners upon which the burden is placed, including landowners within the subject area, are not developers or property speculators. For many this land is their residence and their only asset.

For such people, the identification of their land in Bushplan, with no clear strategy for acquisition or compensation, will result in severe financial hardship.

Bushplan is clearly a strategy which has been produced for the benefit of the whole community, and will no doubt generate strong political appeal for this reason. It is, however, submitted that any such

strategy, from which the broader community will derive benefit, should also be funded by the community and not by the few unfortunate members of that community who happen to be directly affected by the strategic recommendations. Clearly, if the broader community is not prepared to accept the financial implications of the strategy, then the level of community support for such a strategy must be questioned.

2.2 Viability of Bushland Parcels

The principle behind selection of Bushplan sites is fundamentally flawed in that selection criteria does not include the long term viability of Bushplan parcels in the context of future urbanisation of its environs, and it does not consider the cost effectiveness or capability of land parcels to be effectively managed in a future urban context.

It is understood that small parcels of bush land, such as those identified within the subject area, are at risk of further degradation, which will ultimately have the potential to reduce their conservation values to negligible levels, unless continual active (ie expensive) management is maintained.

Bushplan does not address management strategies for small fragmented parcels such as these; from our discussions with government officers, it is apparent that management responsibilities and techniques have not been clearly resolved, however it is most likely that any management will only be on a minimal basis.

It would appear more logical, that the government focus its efforts upon creating larger, less fragmented bushland reserves, primarily building upon the existing bushland reserves already acquired by the government, which will be more likely to be environmentally sustainable into the long term, more cost effective to manage, and more likely to achieve the objective of true biodiversity.

For the Southern River vegetation complex, it is suggested that only the larger parcels of land are preferentially earmarked for long term protection within Perth's Bushplan. For example, the following nodes of conservation would be a useful baseline:

- Whiteman Park and environs (eg BS 198 and BS 200)
- Perth Airport and environs (eg BS 319)
- Forrestdale Lake and environs (eg BS 342, BS 472, BS 125).

2.3 Retention Target

The owners' acknowledge the fundamental importance and need to conserve some of our natural environment and are in general consensus regarding the target of 10% retention of ecosystems for conservation purposes as a desirable outcome; however, in subdividing the vegetation of the Metropolitan Region into so many different complexes and trying to achieve 10% protection of each complex, difficulties clearly arise because of the need to include large numbers of small parcels of vegetation.

It is understood that approximately 6.2% of Western Australia is protected in conservation reserves (1997 Draft State of the Environment Report) which is well below the accepted minimum 10% target. In contrast however, the Perth Metropolitan Region appears to be better off in that the proportion of remnant vegetation which is currently protected represents approximately 11.5% of the original vegetation (Appendix 6 Perth Bushplan). It is noted that Bushplan proposes to protect an additional 19,000 ha of vegetation which would give rise to protection of 18% of the original vegetated area.

In the context of an urban environment, it is submitted that it would be far more effective in terms of land use, environment and management resources, and more sustainable in the long term, to focus on the larger parcels of remnant bush land which are not yet protected. Given that the current level of protection is 11.5%, then the smaller parcels of bush land (which are in any case unlikely to survive without intensive management) maybe foregone and yet an overall retention of in the order of 15% of remnant vegetation may still be achieved in the Metropolitan Region.

2.4 Incomplete Database

The vegetation and flora characteristics of both sites are described from only limited survey; the floristic community types are inferred only (they have not been sampled) and there is no known information on fauna or total flora of each site. Despite the apparent cursory nature of the research, both sites are listed for total protection within Perth's Bushplan. This places the onus on individual owners to prove that remnants of vegetation on their land are not worthy of conservation by conducting the appropriate studies.

This is tantamount to being deemed guilty until proven innocent. It is inequitable and an unreasonable burden on individuals, many of whom cannot afford to engage the appropriate experts needed to mount a meaningful response.

In any event, the owners consider that it would be a waste of time and money to engage specialist experts to assess and accurately map the variations in vegetation condition (with a view to negotiating the extent of the proposed Bushplan areas) because it is apparent that the Bushplan nominations of their land are not influenced by vegetation quality (given that a large proportion of both sites are only rated as "good to degraded").

2.5 Bushplan Will Not Remove Uncertainty for Developers

There has been considerable emphasis placed on the argument that Bushplan will provide certainty for Landowners and Developers with respect to the availability of land for residential development. In this regard, Bushplan fails to achieve its objectives. Three aspects which would appear to have an impact on the amount of developable land are mentioned in Bushplan but not resolved;

- Conservation Category Wetlands
- Bushland with local conservation significance
- Greenways and linkages

Owners are expected to negotiate with the authorities through the public consultation period to resolve the most appropriate mechanism for protection of remnant bush land nominated in Bushplan. However, the landowners are understandably reluctant to negotiate and agree on a particular position in respect of land nominated in Bushplan, when there is the clear implicit threat of further constraints being placed on their land at a later stage.

2.6 Ongoing Ownership and Management

Given the immensity of the Bushplan proposal, in terms of overall land area, and the fragmented nature of the Bushplan areas, management is going to be a complex and costly responsibility which the government has avoided addressing at this stage.

Bushplan does not address the critical issues of ultimate ownership and management responsibilities. Clearly, in the case of areas which will attach to existing conservation reserves, management responsibilities will be assumed by those agencies already responsible for the existing reserves - principally CALM.

In the case of the smaller isolated bushland areas identified, our discussions with Ministry Officers indicate that there has been no agreement as to who will assume ownership or management responsibility in the future. It is highly unlikely that CALM will accept responsibility of the multitude of small fragmented areas, particularly if they require intensive active management; furthermore, our discussions with the local authority clearly indicates that Council has no intention of accepting any such responsibility.

The recommendation within Bushplan for site numbers 340 and 464, and indeed for the substantial bulk of the Bushplan sites, is that "the most appropriate mechanism for protection be considered through the public comment period in consultation with landowners".

In our discussions with Ministry Officers, it is clear that little consideration has been given to realistic mechanisms for acquiring and maintaining these areas. Essentially, the Ministry is unable to advise what

"appropriate mechanisms" are being considered for this land and the owners therefore do not have the complete story to respond to. The details are expected to be sorted out during the comment period, and it may be that the government and the land owners cannot reach mutual agreement on an appropriate course of action. Furthermore, even if agreement is reached with the landowners on an appropriate method to set aside the land, ongoing care and management is still an unresolved issue. It would be a travesty if landowners affected by Bushplan incur the personal and financial consequences of this strategy in the short term, only to find that the strategy ultimately fails as a result of the government's inability to manage the land.

In terms of acquisition and/or compensation of landowners, the Ministry Officers have suggested that local government may be able to coordinate the progressive acquisition of bush land areas through their own local structure planning processes. In our own consultations with the relevant local government, it appears that that authority has not agreed to any such process, and it has been suggested that local government will be reluctant to assume responsibility for acquiring these areas for what is essentially a regional (and therefore state government) purpose. This is a further demonstration of the presumptuous nature of Bushplan, and the superficial way in which the strategy has treated the issues of ownership and management issues which should be fundamental to its successful implementation.

It is reiterated that the government should be encouraged to change its strategy to one where it focuses on a reduced number of larger reserve areas containing the most significant vegetation and endeavouring to regenerate these areas to create more meaningful and affordable natural bush land resources.

3. Conclusion

In conclusion, we reiterate that the members of the Southern River Landowners Group acknowledge the importance of conserving a proportion of our natural environment in accordance with the government's local and regional (ie international) responsibilities. The owners are, however, opposed to the Bushplan Strategy in its current form, and consider that Bushplan does not meet the fundamental conservation objectives in an effective and sustainable manner. The principal problems with the Bushplan Strategy in its present form may be summarised as follows:

- The process is inequitable, placing a severe burden upon a few landowners, for the ultimate benefit of the whole community
- The long term viability of the small fragmented land sites is questionable, and will at least require intensive and costly management
- The identified sites have been based on relatively superficial research placing the onus upon the landowner to prove the findings to be wrong
- Bushplan fails to address the key issues of long term ownership and management of Bushplan sites, without which Bushplan can not be effectively implemented, and the community can not provide a fully informed response

Based on the current inadequacies of the Bushplan Strategy, and the severe impact of the strategy upon the South River Landowners Group, we request that the following actions be adopted:

- Remove sites numbers 340 and 464 from Bushplan, as they are too small and isolated to be effectively managed and protected as regional bush land
- That the Bushplan Strategy be subject to a complete review so that the issues of long term sustainability and management capability can be given proper recognition as an imperative element in the selection criteria
- That the government reconsider the principles of the Bushplan Strategy with a view to focusing on the creation of larger, more manageable and sustainable, conservation areas with greater levels of biodiversity, and forgoing the small fragmented parcels.
- That the government remove the inequity associated with the current strategy, by placing the financial responsibility for the implementation strategy onto the entire community for whom Bushplan has been produced (and not just the few landowners unfortunate enough to have been directly affected). This should be done through the introduction of a "green levy" the details of which should be released at the same time as the revised Bushplan Strategy, so that the whole community is presented with a complete package of, not only the benefits, but also the costs of the strategy.

...6

Perth Bushplan

30 April 1999

We trust that the preceding points provide you with a clear appreciation of our client's position and response in relation to Bushplan. We would be most pleased to continue to discuss the matter directly with your office as and when appropriate. In the mean time if you have any queries, please do not hesitate to contact the writer.

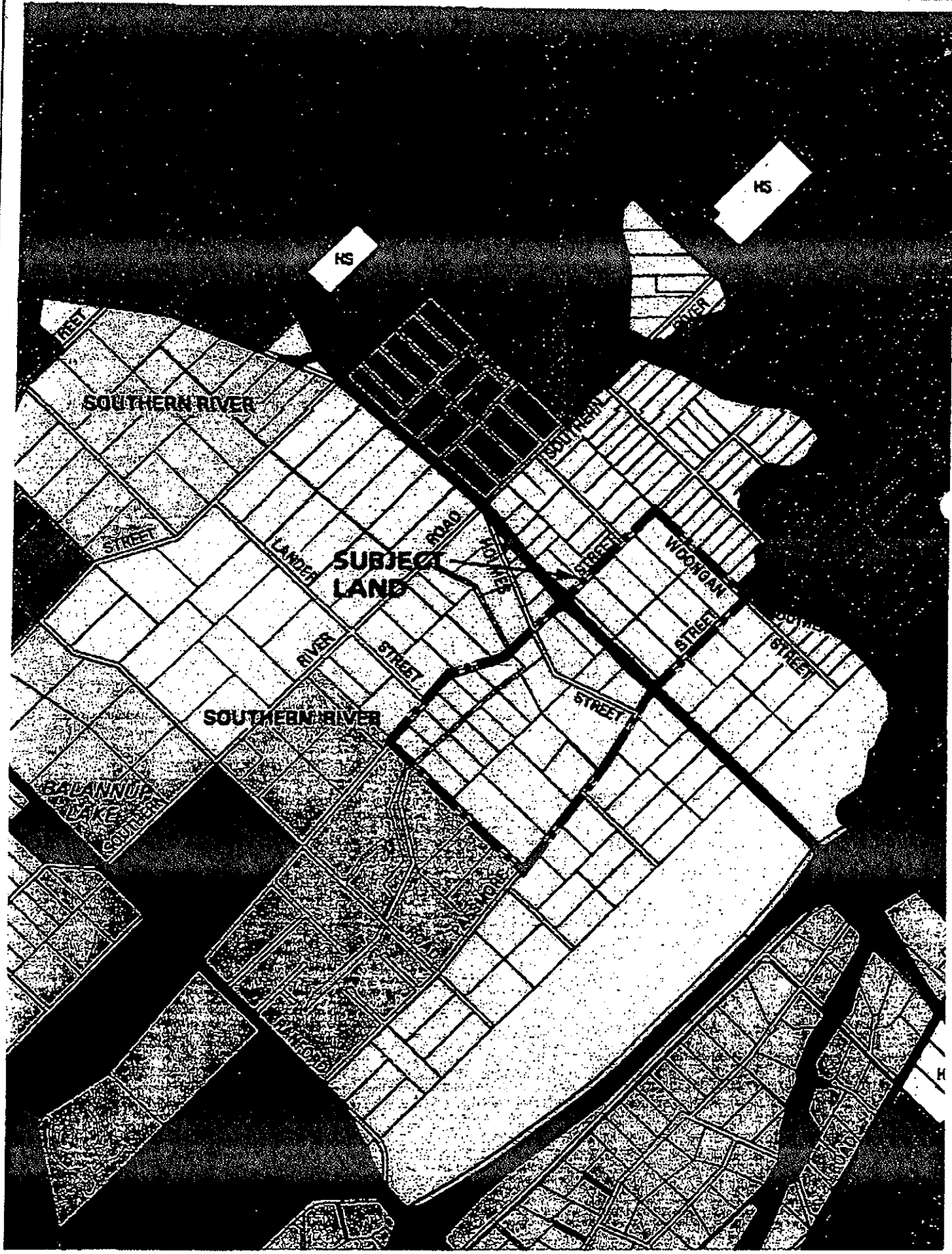
Yours faithfully
TAYLOR BURRELL



LEX BARNETT
Director

Encl.

cc. Southern River Landowners - all members
Monica Holmes - JP MLA
Mike Bishaw - Bowman Bisham Gorham



PROJECT

FIGURE NO.

NORTH

LOCATION PLAN

1



Taylor Burrell

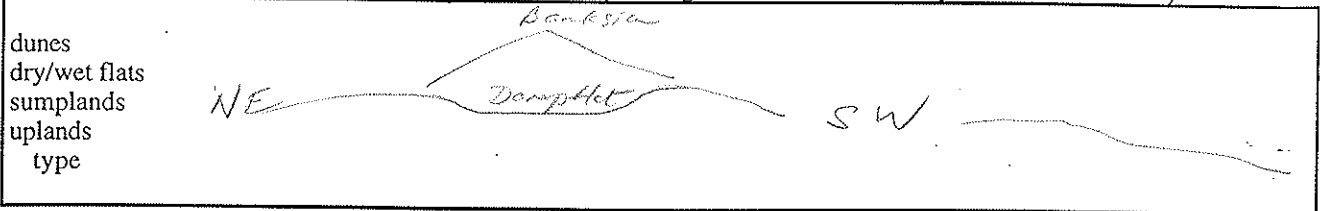
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Observations edge transects

| | | | |
|---------------------|----------|-------------|---|
| Geographic Location | Latitude | S Longitude | E |
| Reference Map | | | |

| | | |
|------------|---------------------|----------|
| Photograph | Photographer's Name | Photo No |
|------------|---------------------|----------|

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



| | | | |
|----------------|------|--------|-----------|
| Soil - surface | type | % area | sub -soil |
| Exposed rock | | | |

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 | <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 / DOMINANT SPECIES | | | | | |
| See Trudgen + Keighery 1995 | | | | | |
| (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) | |
| 4 = Good (Poor) | |
| 5 = Degraded (Very Poor) | |
| 6 = Completely Degraded | |

Specific aspects of disturbance

| | |
|---|--|
| partial clearing | |
| weeds (list): | |
| selective removal of species: timber cutting | mowing |
| fire | grazing (dieback) %area |
| fire frequency: | see Trudgen 1995 |
| '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 | |

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

at degraded edge to W

Mel. uncin open shrubs to 2m over Vat dense

30-70% Lm over bushes patches left open

could look - Case help through community

Wet flat blending lot 2/3

Paniculogona 17700% over Eviran. parviflora

Lot 5 (observed edge lot 4/5)

Clearing parts in pool, low weed invasion

M. rousin young herbaceous on ridge to

Lot 4 (side)

Fauna comments

Adjacent bushland (refer to aerial photograph)

OTHER COMMENTS

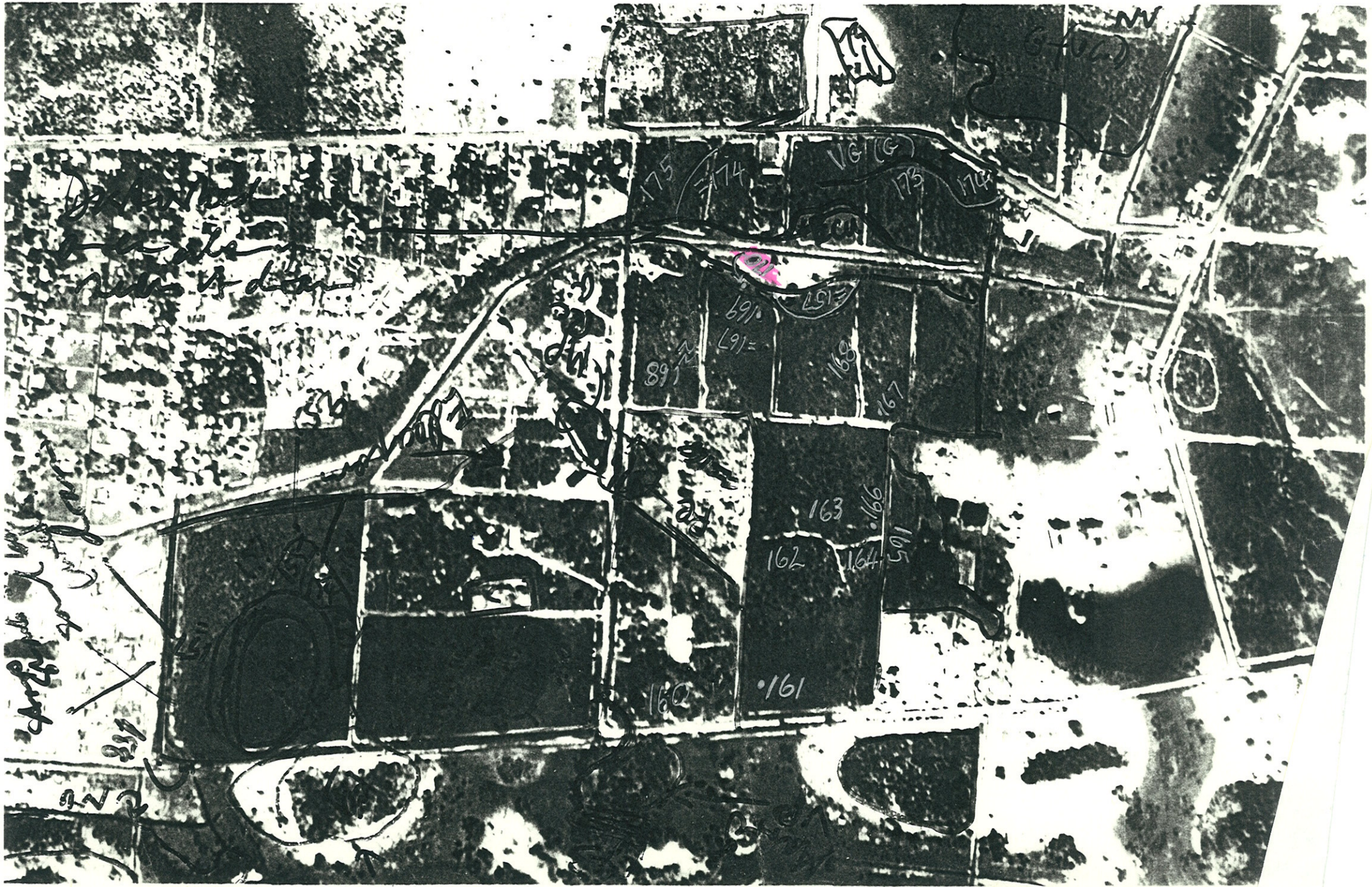
Example 'Rucker'

Southern River vegetation Damp/low Banksia low woodlands (see Tredgen + Keighery 1995)

plus Eviran parviflora in damp flats

Note: block incorrectly described in

Area 47



Handwritten notes in the top-left corner, possibly describing the area or survey details.

Handwritten notes in the middle-left corner, including a large 'X' and other markings.

Handwritten notes in the bottom-left corner, including the number '188'.

175 174 161 173 174

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DRAFT PERTH'S BUSHPLAN -
ASSESSMENT OF
BUSHLAND AREAS WITHIN THE
**SOUTHERN RIVER-FORRESTDAL-
BROOKDALE-
WUNGONG DRAFT STRUCTURE PLAN**

**DALLEN ROAD BUSHLAND,
SOUTHERN RIVER/GOSNELLS (BS 255)**

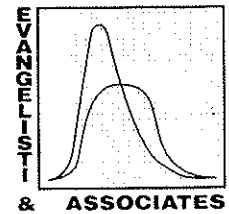
**PHOEBE STREET BUSHLAND,
SOUTHERN RIVER (BS 340)**

**MATISON STREET BUSHLAND,
SOUTHERN RIVER (BS 464)**

**PASSMORE STREET BUSHLAND,
SOUTHERN RIVER (BS 465)**

Department of Environmental Protection
B. Keighery
December 1999

copy of full report in BS 255



WATER RESOURCES MANAGEMENT PLAN

MIDDLE CANNING CATCHMENT

(STAGE 1 - VOLUME 1)

Prepared for the

Water Authority of Western Australia

By

Evangelisti & Associates
Consulting Engineers and Project Managers

in association with

Landvision
Consultants in Urban and Environmental Planning

and

The V & C Semeniuk Research Group
Environmental Scientists

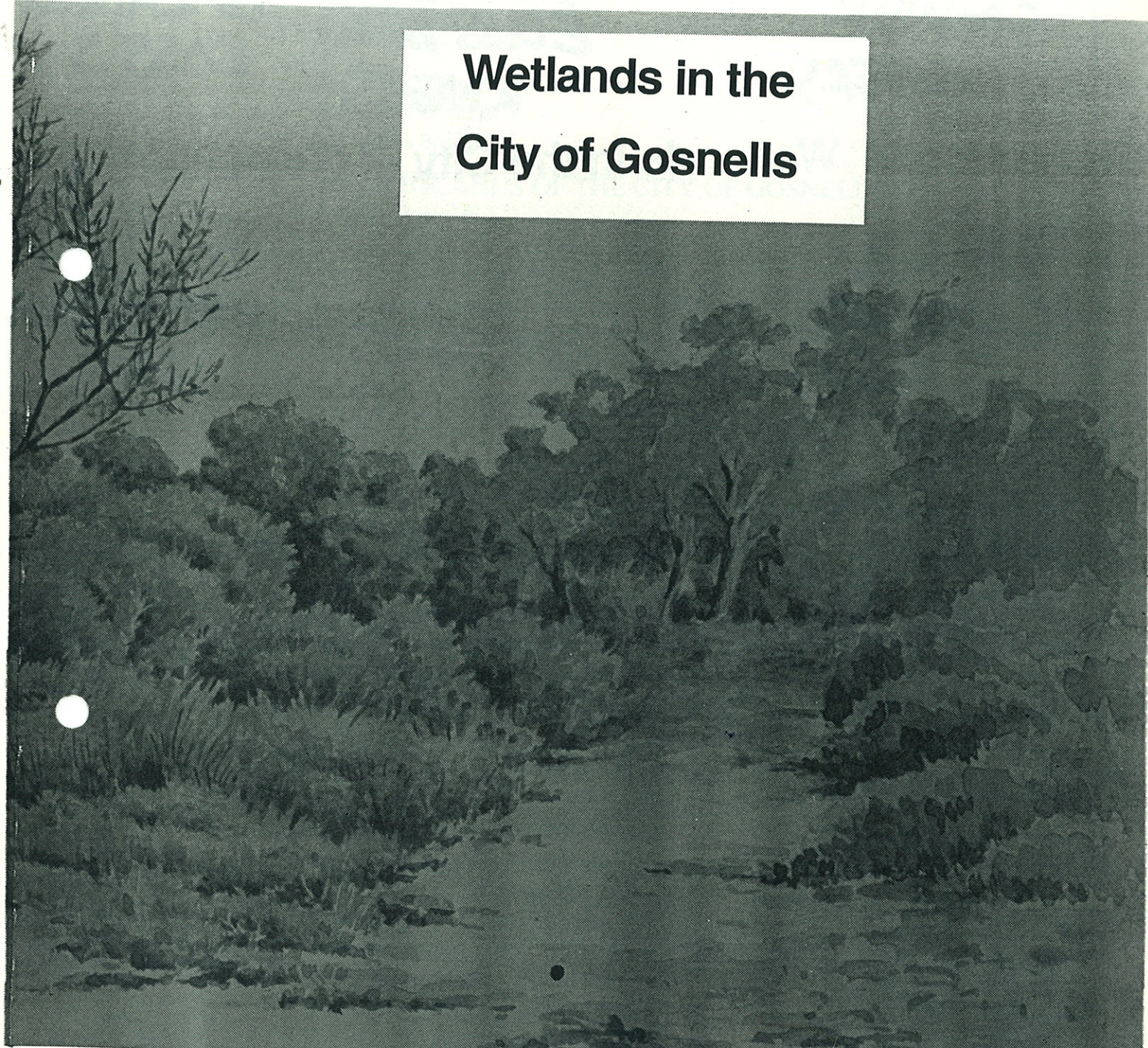
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Water Authority
of Western Australia

Wetlands in the City of Gosnells



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**Full document
available
on request**



Passmore - Furley Wetland (Sand Bottlebrush) April 1993



Passmore - Furley Wetland (Eastern side) April 1993



Passmore-Furley Wetland (Northern side) April 1993



Passmore-Furley Wetland (Southern side) April 1993

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