

Mr. Gary Whisson,
Dept. Environmental Protection,
Westralia Square,
141 St. George's Tce.,
PERTH 6000

Dear Sir,

RE: Lot 6, Rushton Road, Martin.

Please find attached our submission to the System 6 Update. My apologies for the lateness of the report, but I am in the position of "too much work to do and not enough time to do it in!"

Lot 6 has been inadvertantly missed in the System 6 Surveys, and being owned by the City of Gosnells, has no environmental protection afforded it.

Lot 6, up until recently, was always assumed to be part of the Ellis Brook Valley Reserve. It was not until Council resolved to sell Lots 1-6 that we became aware of its status.

According to all the maps in the current Management Plan, lot 6 was part of the Study Area within the Reserve.

Surveying has already been carried out on lot 6, and the survey pegs are now in place.

Attached are photos taken from boundary points on lot 6. Also attached is a basic flora list, this is incomplete due to the time of year the survey was carried out, as flowering of some species does not occur until well into Spring. Nevertheless, we identified 98 species, and are confident that at least another 20 species are to be found here.

The topography of lot 6 is such that a diverse plant community exists there, please refer to cross sectional diagram. Because of its damp nature in the middle of lot 6, there are species found here that occur in only one or two other locations within the Reserve. There are not too many seasonally wet areas in Ellis Brook Valley Reserve, what we do have are mostly ridges, slopes and typical Darling Scarp topography.

The enclosed photographs give a good indication as to the condition of Lot 6, the photographs were taken mainly from the boundary points, as indicated on the attached sheets.

Lot 6 is not an isolated pocket of bushland, but rather part of a whole ecosystem and supports a large population of both fauna and flora. It is also a buffer zone between Lot 5, which is totally degraded, and any ensuing weed invasion into the Reserve.

The Friends group regularly monitors the boundary between Lot 5 and Lot 6 for weed invasion, and I am pleased to say that weed invasion has all but been eliminated by these efforts.

The Friends group also erected the "No Entry - Bush Being Restored" sign, and has undertaken control of off road vehicular activity, with success. The Friends Group has also removed rubbish and cleaned up a number of ugly spots around this area. Since these efforts, the regeneration of the bushland has been most rewarding.

The density of the bushland on Lot 6 also aids in keeping weed invasion down, the bush is in very good condition, and open or degraded areas are not a threat to the remainder of the Reserve.

We believe Lot 6 forms an integral part of the Reserve, and should be protected from development. The only way this protection can be realized is for DPUD to purchase the land from the City of Gosnells.

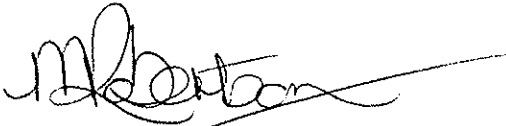
The sale of Lot 6 would be detrimental to the Reserve, because the land is being promoted as horse paddocks, and the resultant weed invasion may be more than we, as a group could deal with, plus encouraging horse owners to buy land so close the Reserve, in turn encourages horse riding within the Reserve.

Also the loss of such a beautiful piece of bushland, when so much bushland is already being lost, would be shameful.

The Friends of Ellis Brook Valley (Inc), are happy to co-operate with all authorities to enable Lot 6 to be protected, we feel it is vital that Lot 6 be given priority in assessment, because of the uncertainty surrounding its status, and the fact that the City of Gosnells plans to sell it in the future.

If you have any queries, please do not hesitate to contact me.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'M Robertson', with a long horizontal flourish extending to the right.

MRS. MARGARET ROBERTSON

(President.)

FRIENDS OF ELLIS BROOK VALLEY (INC)

14 Kennett St.,

Maddington WA 6109

21st September, 1995

SYSTEM 6 BUSHLAND SUBMISSION FORM
FOR CONSIDERATION IN THE UPDATE PROGRAMME

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: Rushton Road Martin

b) Nearest Corner: Quarry Road

c) Lot Number: Lot 6 Street Number: -

d) Town/Suburb/Location: Martin - Ellis Brock Valley Reserve

e) Local Council: City of Gosnell

f) Site Name (if any): Ellis Brock Valley Reserve

g) Approximate size of the area (ha): 10 acres

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:

Border between lot 5 (open paddock) & EBVR

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

Yes Council are presently preparing to sell all 6 lots on Rushton Rd

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) *City of Gosnells hold the Certificate of Title*

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*

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) *Near Ruzline Bushland adjoining Ellis Brook Valley Reserve*

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? *large population of Macrozamia, graduating to heath. Seasonally damp area*

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? 100%

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

..... Please see attached map

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

If yes, please give details of the work Survey carried out by Friends of Ellis Brook Valley over past 3 years. Recent Survey work

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

- between —
- a) pristine — at front & rear heath .
 - b) excellent
 - * c) very good in middle
 - 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

in one part only, now used as a walk-trail.

o) Off-road vehicle use - many years ago. Now being formalized as Disabled Walk Trail

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? Anigozanthos bicolor (orange), Ilixa Myrtoides, Xanthorrhoea acanthostachya etc. Please see attached flora list

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

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

Frog, Kangaroos, Several Bird species, Reptiles, Bandicoots.....

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 - Personal observation

Many different bird species - including Bronzewing pigeons, Black Cockatoos, Echidnas have been sighted, Bandicoots, & Western Grey Kangaroos, Reptiles, to name a few.

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? Ellis Brook Valley Reserve: lot 6

was always considered to be part of EBVR until the CCG decided to sell it. It was only then it was discovered to be owned by CCG.

Are they already conservation reserves? EBVR.....

What is their approximate size? 1642 hectares.....

19. Does the submitted area link other bushland areas? Yes - EBVR.....

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

ELLIS BROOK VALLEY RESERVE SPECIES LIST

189

	SPECIES	COMMON NAME	DATE FOUND	NOTES	FAMILY	HERBARIUM
1	*Acacia horridula				As above	x
2	*Acacia lasiocarpa			Lot 1-4	Mimosiaceae	x
3	*Acacia teretifolia				As above	x
4	*Agonis grandiflora	Strange Peppermint			Myrtaceae	x
5	*Allocasuarina humilis	Dwarf She-oak		Dioecious plants - common	As above	x
6	*Anigozanthus bicolour - orange		Sept 93	Wandoo	As above	
7	*Anigozanthus bicolour - red		Sept 93	Wandoo	Haemodoraceae	
8	*Astroloma glaucesens				As above	x
9	*Baeckea camphorosmae	Camphor myrtle			Myrtaceae	x
10	*Borya schaeroaphela	Pin Cushions			Anthericaceae	x
11	*Burchardia multiflora		15.8.92	Wet depression Lot 6	Colchicaceae	x
12	*Caladenia hiemalis s/sp hiemalis					
13	*Caladenia reptans s/sp reptans	Little pink fairy	26.7.93	Lot 2. Also Falls area	As above	x
14	*Calothamnus sanguineus				As above	x
15	*Calothamnus torulosa				As above	
16	*Cassytha sp.	Dodder laurel		Common	Lauraceae	x
17	*Cheilanthes austrotenuifolia	Rock fern			Adiantaceae	x
18	*Conostylis aculeata				Haemodoraceae	x
19	*Conostylis carcina				as above	x
20	*Conostylis setigera			Common	as above	x
21	*Conothamnus trinervis				Myrtaceae	x
22	*Cryptandra pungens				as above	x
23	*Cyanicula deformis	Blue fairy orchid		Common/widespread	Orchidaceae	
24	*Dampiera alata				Goodeniaceae	x
25	*Dampiera linearis				as above	x
26	*Daviesia angulata			Lot 2	Papilionaceae	x
27	*Daviesia decurrans				as above	
28	*Daviesia horrida				as above	
29	*Diuris brumalis	Winter donkey orchid	Aug 93	Heath after fire	as above	x
30	*Diuris corymbosa				as above	
31	*Diuris laxiflora	Bee orchid	11.8.93	Lot 6/7 wet depression	as above	
32	*Diuris magnifica	Small donkey orchid	August	Lot6/7	as above	
33	*Drosera bulboza	Rossetted-green			Droseraceae	
34	*Drosera erythrorhiza	Red ink sundew	June		as above	
35	*Drosera hetrophylla			Uncommon, erect, white, lot 6	as above	
36	*Drosera menziesii sub. pencillaris			pink, lots 2,3	as above	
37	*Dryandra armata				Proteaceae	x
38	*Dryandra nivea				as above	x
39	*Eriostomon spicatus	Pepper & salt		Lots 1.2.3	Rutaceae	x
40	*Eucalyptus calophylla				Myrtaceae	x

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ELLIS BROOK VALLEY RESERVE SPECIES LIST

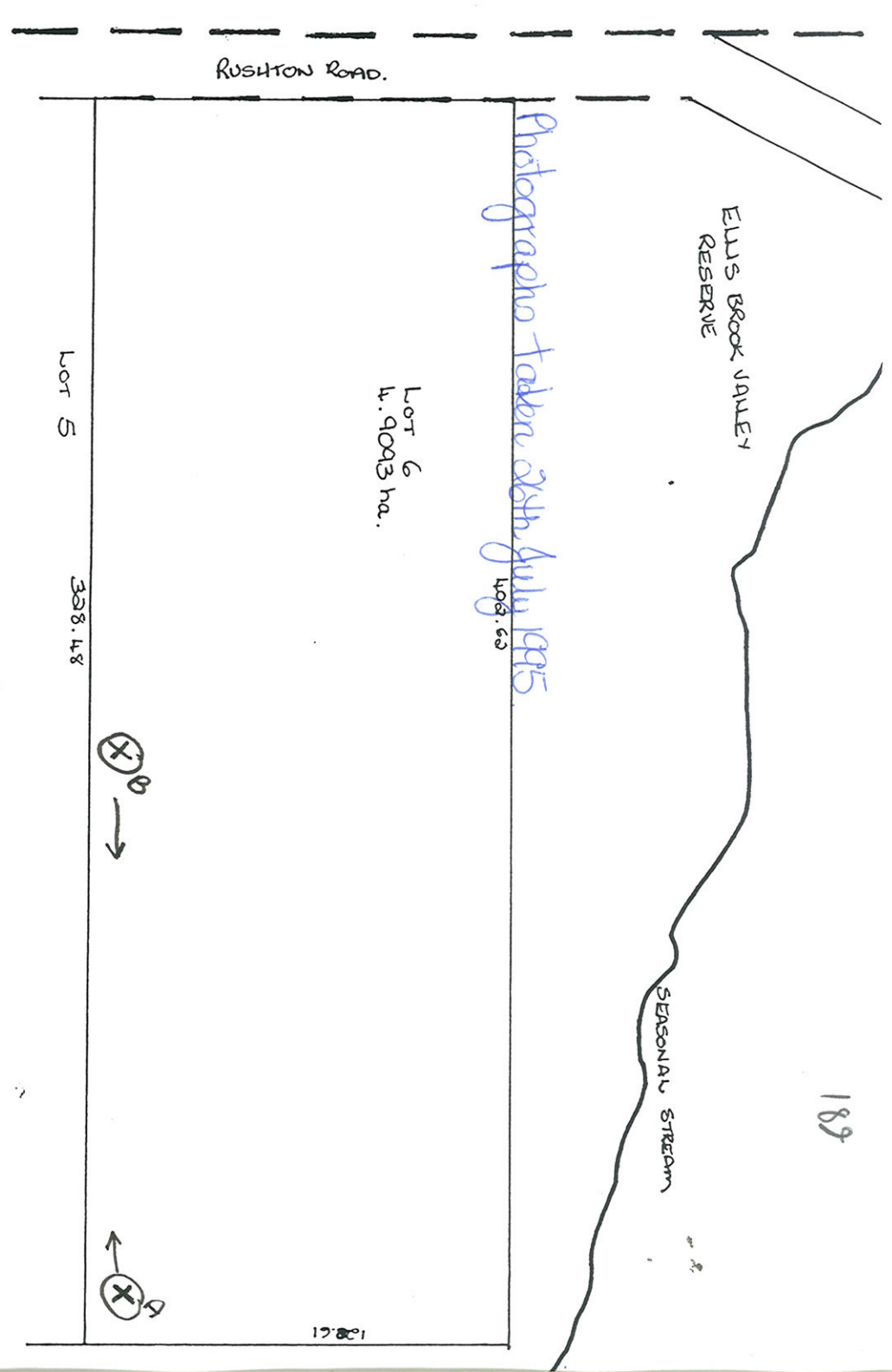
	SPECIES	COMMON NAME	DATE FOUND	NOTES	FAMILY	HERBARIUM
41	*Eucalyptus wandoo				as above	x
42	*Glischrocaryon aureum	Pop flower	21.9.93	Wandoo	Haloragaceae	x
43	*Gompholbium marginatum				Papilionaceae	x
44	*Grevillea bipinnatifida				Proteaceae	x
45	*Grevillia pillulifera				as above	x
46	*Hakea erinaceae				as above	x
47	*Hakea lissocarpha	Honey Bush			as above	x
48	*Hakea myrtoides			Lots 6,7	as above	x
49	*Hakea stenocarpa				as above	x
50	*Hakea trifucarta			Widespread in valley	as above	x
51	*Hakea undulata				as above	x
52	*Hibbertia commutata				as above	x
53	*Hibbertia hypericoides				as above	x
54	*Hibbertia subvaginata				as above	x
55	*Hovea pungens				as above	x
56	*Hovea trisperms				as above	x
57	*Hypocalymma angustifolia	Swamp myrtle			Myrtaceae	x
58	*Hypoxis occidentalis				Hypoxidaceae	
59	*Hypoxis sp.	Yellow lily	21.9.93	Wandoo	as above	
60	*Isopogon asper				Proteaceae	x
61	*Kennedia coccinea	Coral Vine			Papilionaceae	x
62	*Kunzea recurva				Myrtaceae	
63	*Lambertia multiflora			Widespread lots 1,2,3	Proteaceae	x
64	*Laxmannia squarrosa			Falls walk trail	as above	x
65	*Lechenaultia biloba			Rear lot 5	Goodeniaceae	x
66	*Leucopogon pulchellus			Lots 2,3,5	Epacridaceae	
67	*Leucopogon tenuis			Rear lot 5, lot 6	Epacridaceae	
68	*Lomandra nigricans			Widespread in bushland	Dasypogonaceae	x
69	*Macrozamia reidleyi			Widespread	Zamiaceae	
70	*Melaleuca radula				as above	x
71	*Melaleuca scabra				as above	x
72	*Mesomelaena tetragona	Semaphore sedge			as above	x
73	*Nuytsia floribunda				Loranthaceae	x
74	*Oleria paucidentata				Asteraceae	x
75	*Oxylobium capitatum	Bacon & eggs		Lots 5,6,7	Papilionaceae	x
76	*Patersonia occidentalis	Purple flags			as above	x
77	*Petrophile biloba				Proteaceae	x
78	*Philydrella pygmaea	Butterfly plant	Sept 92,93	Wet. wandoo	Philydraceae	
79	*Phyllanthus calycinum	False Boronia			Euphorbiaceae	x
80	*Pithocarpa pulchella	White daisy		Widespread	as above	x

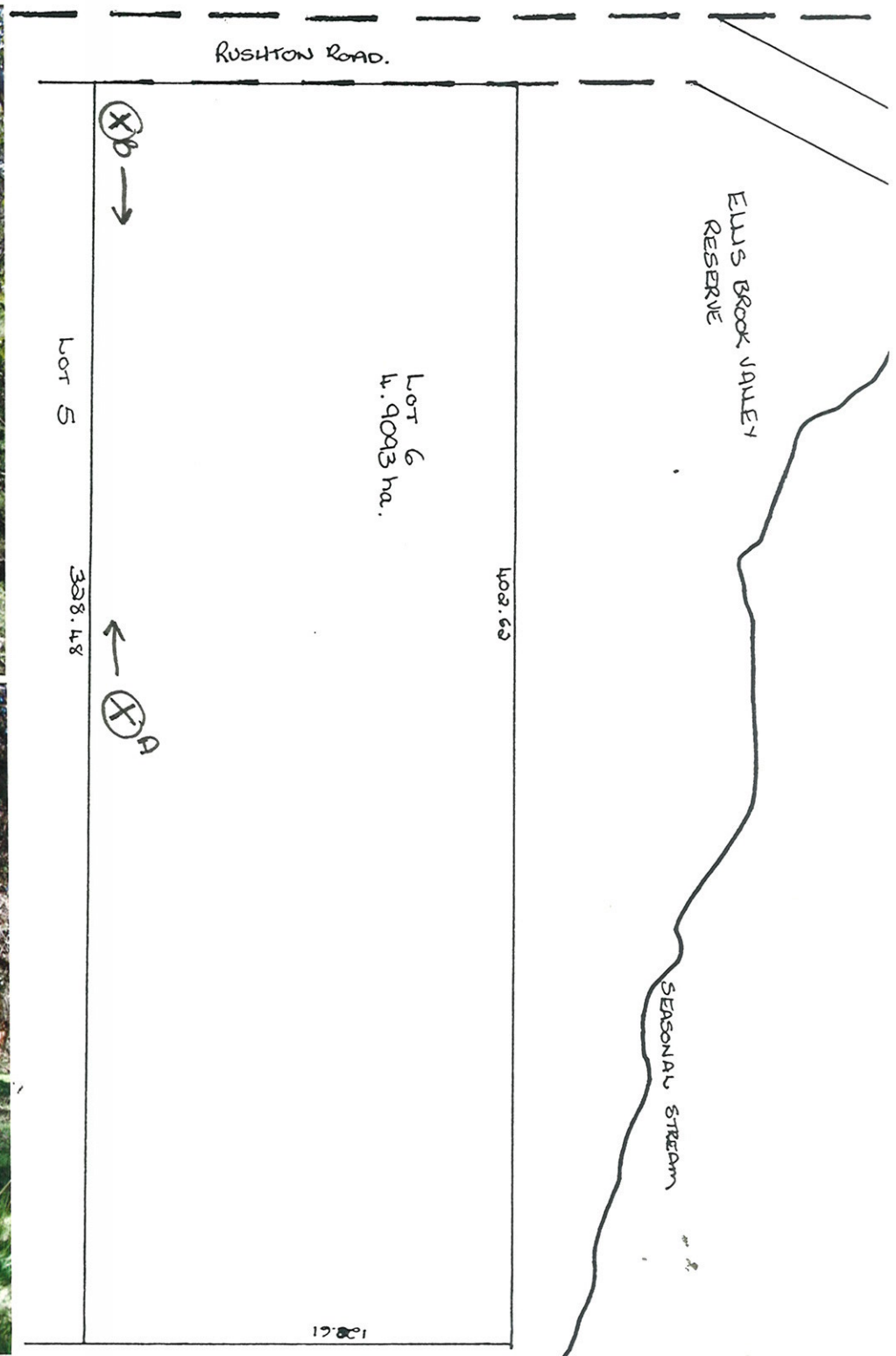
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ELLIS BROOK VALLEY RESERVE SPECIES LIST

	SPECIES	COMMON NAME	DATE FOUND	NOTES	FAMILY	HERBARIUM
81	*Pterochaeta paniculata					
82	*Ptilotus manglesii	Rose tipped mulla mulla			as above	x
83	*Stylidium brunonianum			Widespread in valley	as above	x
84	*Stylidium repens				as above	x
85	*Stypandra glauca	Blue flower	24.8.94	Lot 6/7, common elsewhere	Phormiaceae	x
86	*Synaphae acutiloba				Proteaceae	x
87	*Synaphae petiolaris			Widespread in valley	as above	
88	*Synaphae pinnata			Cnr Pitt & Harward	as above	
89	*Templetonia biloba			60' falls walk trail, uncommon	Papilionaceae	x
90	*Thelymitra antennifera	Lemon Orchid		Lot 7	Orchidaceae	
91	*Thomasia foliosa				Sterculiaceae	x
92	*Thomasia glutinosa				as above	x
93	*Thysanotus manglesianus	Fringe Lily				x
94	*Trionanthes brachypetala		July	Common in wet areas	Haemodoraceae	x
95	*Xanthorrhoea acanthostachys				Xanthorrhoeaceae	
96	*Xanthorrhoea preissii				as above	x
97	Acacia alata			Lot 4	Mimosaceae	
98	Acacia barbinervis			Laterite	As above	x
99	Acacia dentifera				As above	x
100	Acacia extensa	Wiry Wattle		Lot 4	As above	x
101	Acacia lateriticola	Gravel Wattle			As above	x
102	Acacia nervosa				As above	x
103	Acacia oncinophylla				As above	x
104	Acacia pulchella v glaberrima				As above	
*105	Acacia saligna	Orange Wattle		Common	As above	
106	Acacia sessilis			Lot 2,3	As above	x
107	Acanthocarpus preissii				Dasypogonaceae	
108	Actinostrobus acuminatus	Swamp Cypress	13.9.92	Heath/Quartz	Cupressaceae	x
109	Actinotus leucocophalus	Flannel flower	34608		Apiaceae	x
110	Adenanthos barbigerus	Wooly Bush		Lots 1-3	Proteaceae	
111	Agonis linearifolia				Myrtaceae	x
112	Agrostocrinum scabrum	Blue grass lily			Anthericaceae	x
113	Alexgeorgia arenicola				Restionaceae	
114	Allocasuarina fraseriana			Lot 1	Casuarinaceae	
115	Ameyema miquelii	Stalked Mistletoe			Loranthaceae	x
116	Andersonia aristata				Epacridaceae	x
117	Andersonia lehmanniana				As above	x
118	Anigozanthus manglesii	Red/Green Kangaroo Paw		Lots 1-3	As above	x
119	Arthropodium capillipes	False Blind Grass			Anthericaceae	x
*120	Astroloma ciliatum				Epacridaceae	

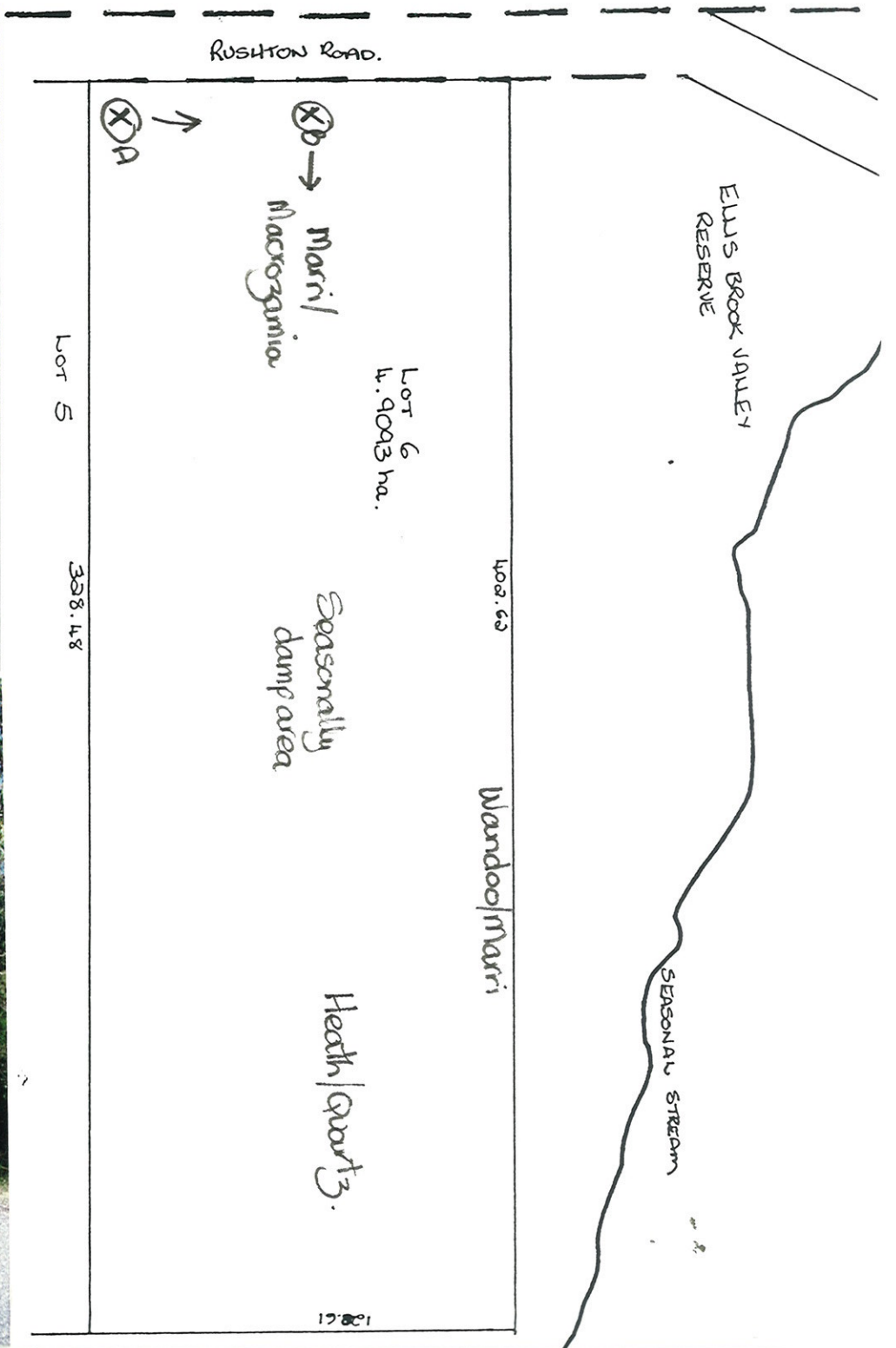
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A.

B.

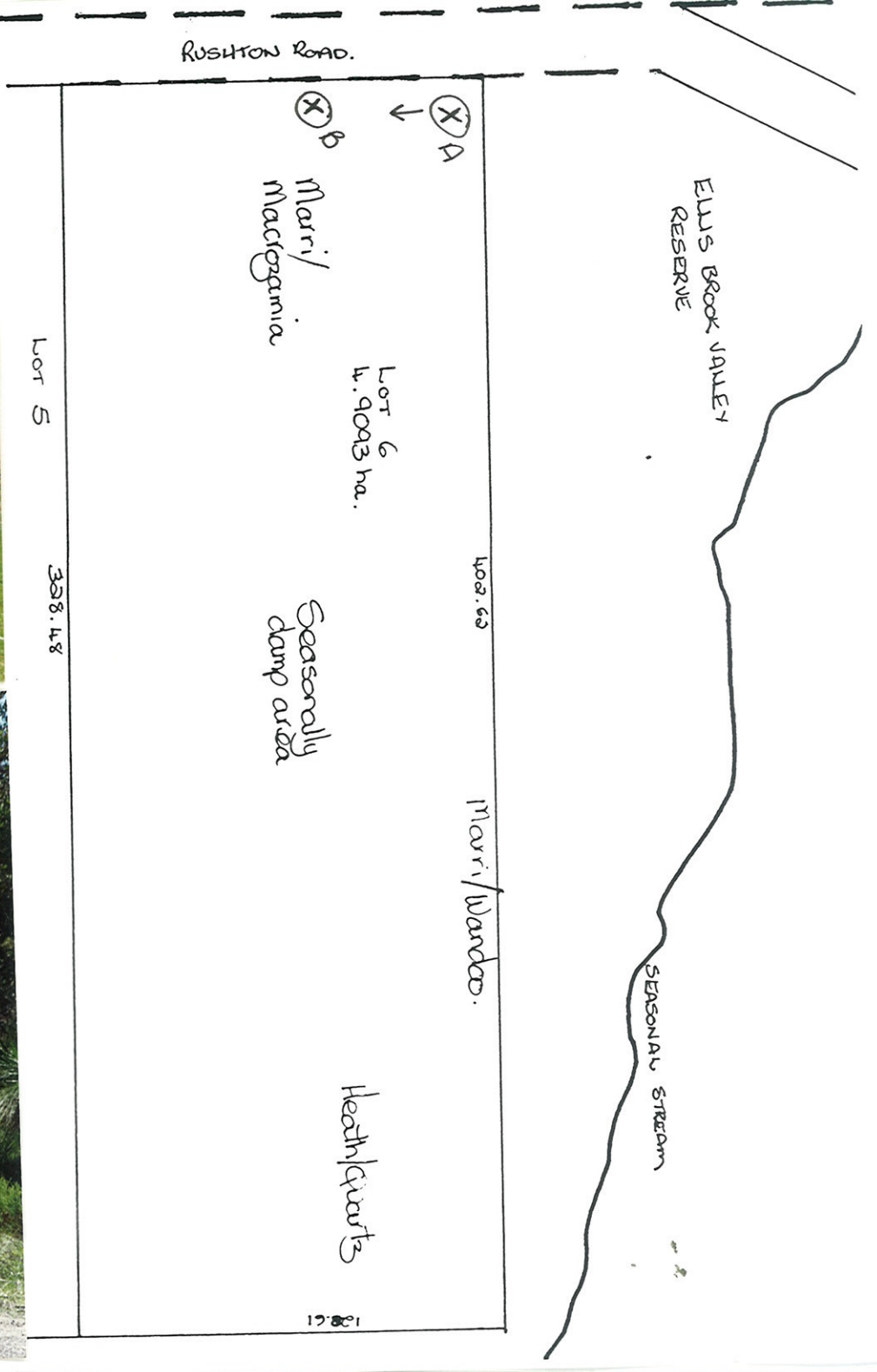




A.

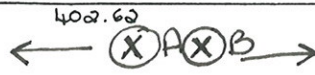


B



ELLIS BROOK VALLEY
RESERVE

SEASONAL STREAM



Marri/Wandoo.

LOT 6
4.9093 ha.

Marri/
Macrozamia

Seasonally
damp area

Heath/Quartz

LOT 5

328.48

RUSHTON ROAD.

12001



A



B

ELLIS BROOK VALLEY
RESERVE

SEASONAL STREAM

RUSHTON ROAD.

402.63

Marri/Wandoo.

LOT 6
4.9093 ha.

Marri/
Maciozamia

Seasonally
damp area

Heath/Quartz

(X)
↓
B

17881

↑
A (X)

LOT 5

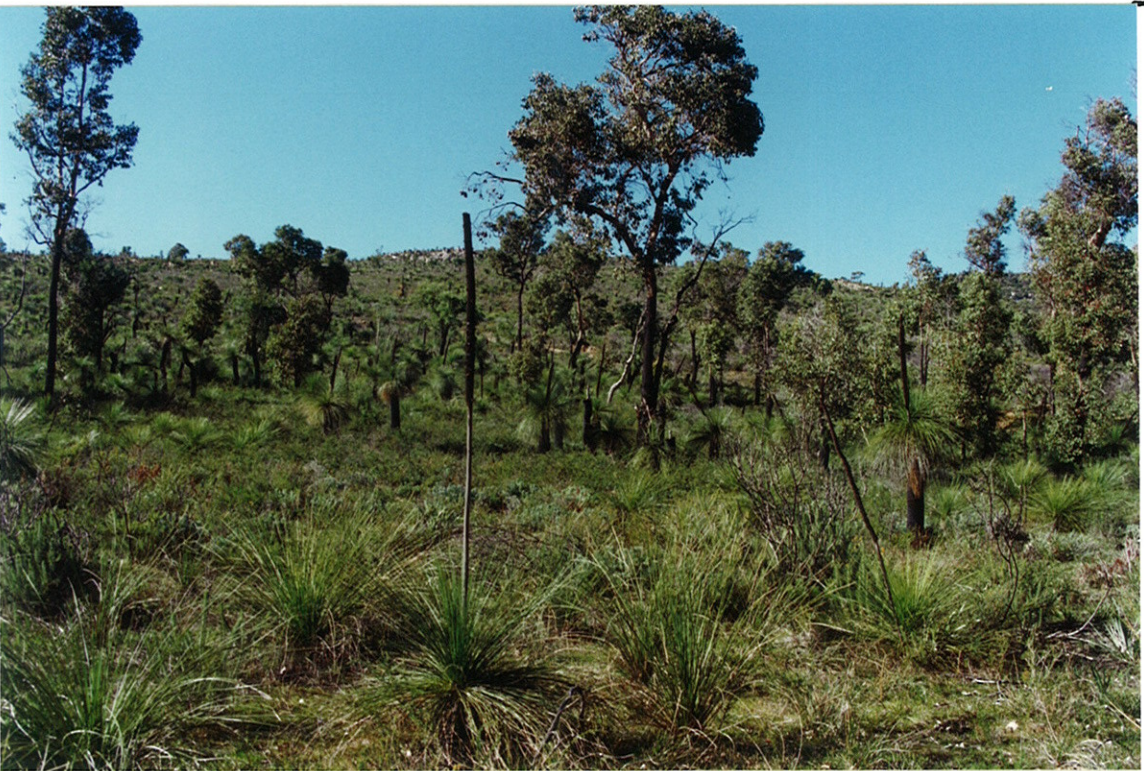
328.48



A.



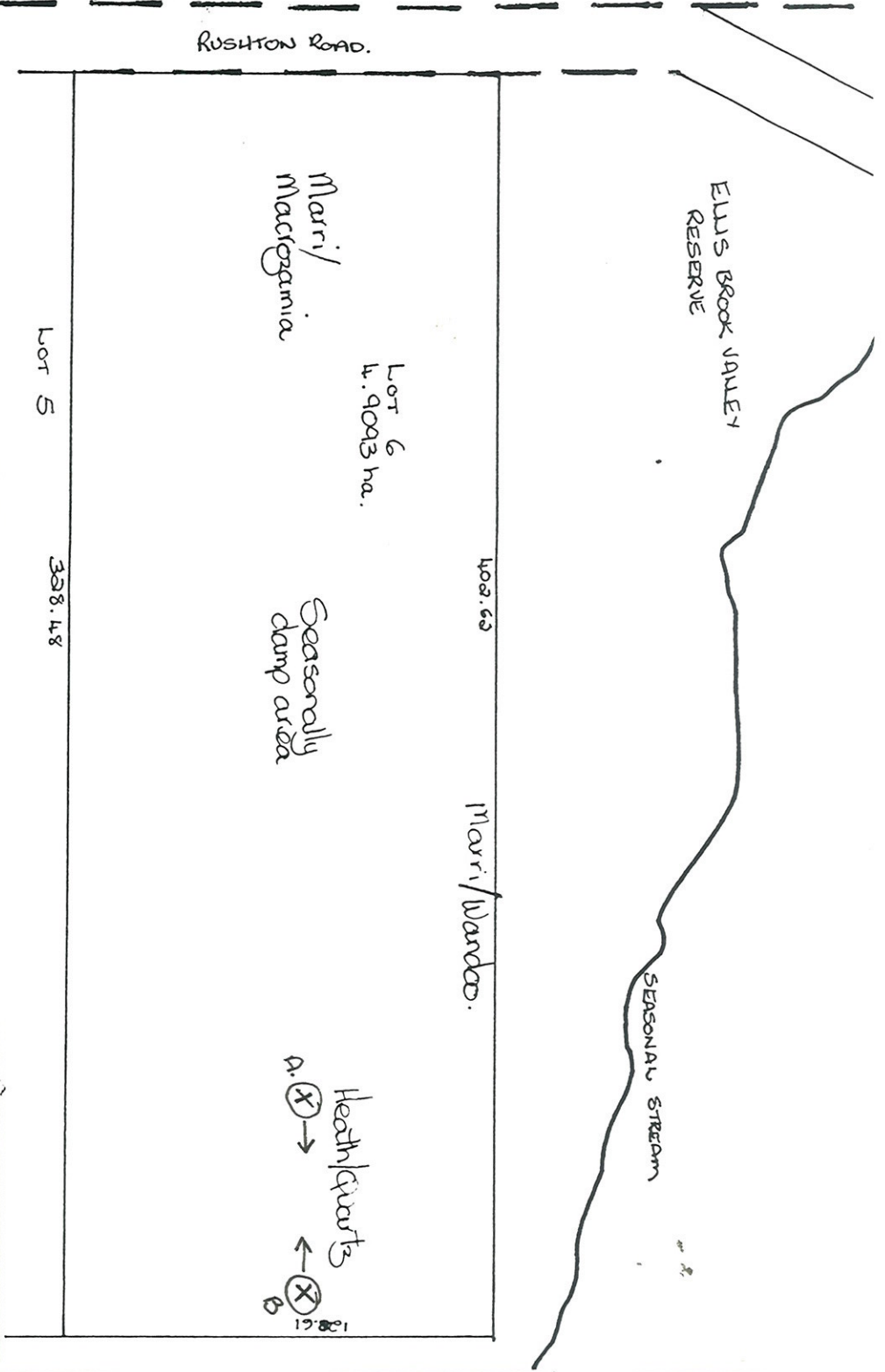
B.



A.



B.

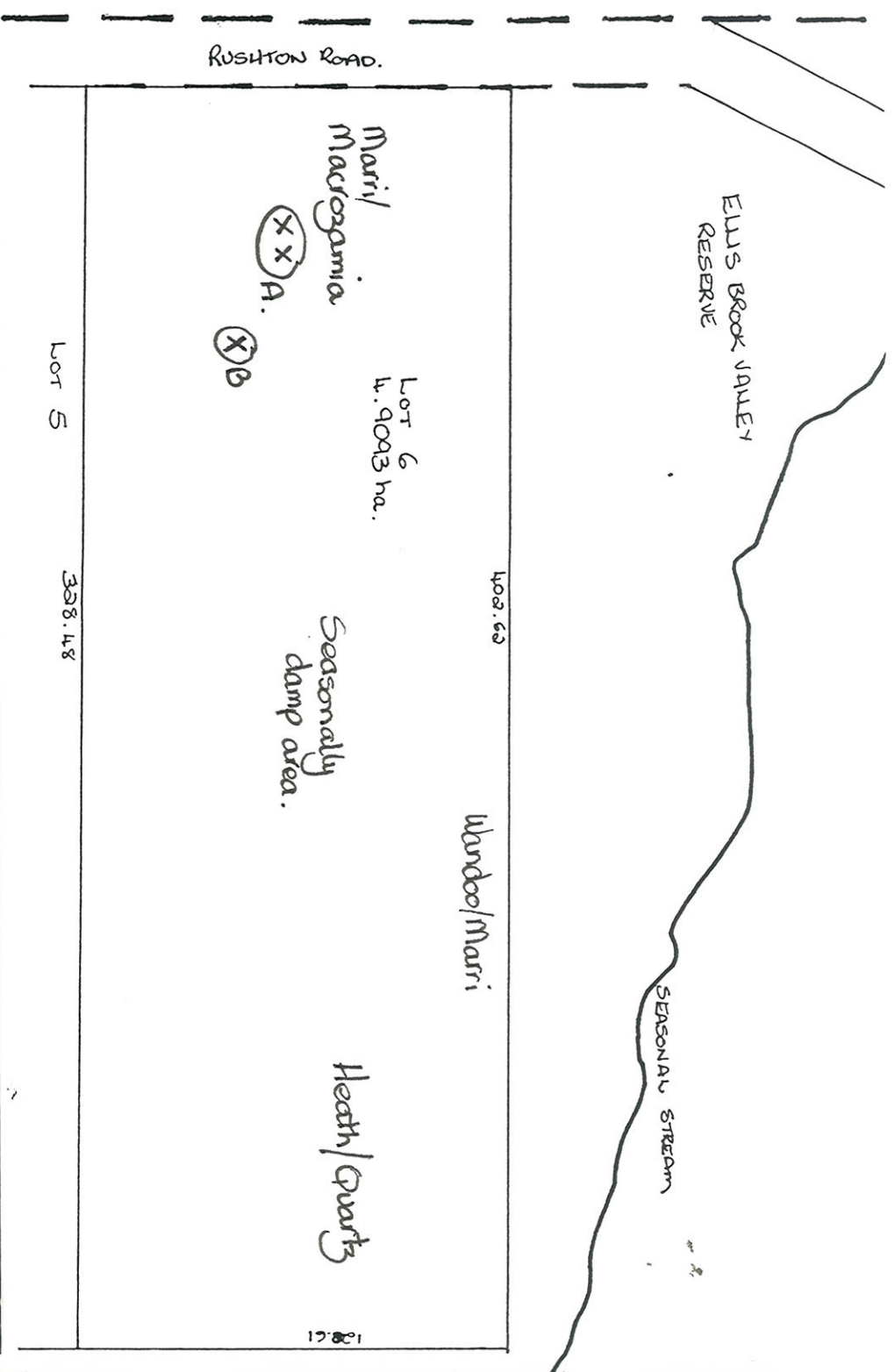




A.



B.



RUSHTON ROAD.

Marri/
Macrozamia

(X)A

(X)B

LOT 6
4.9093 ha.

LOT 5

338.48

Seasonally
damp area.

Wandoo/Marri

Heath/Quarts

1:28.61

ELUS BROOK VALLEY
RESERVE

SEASONAL STREAM

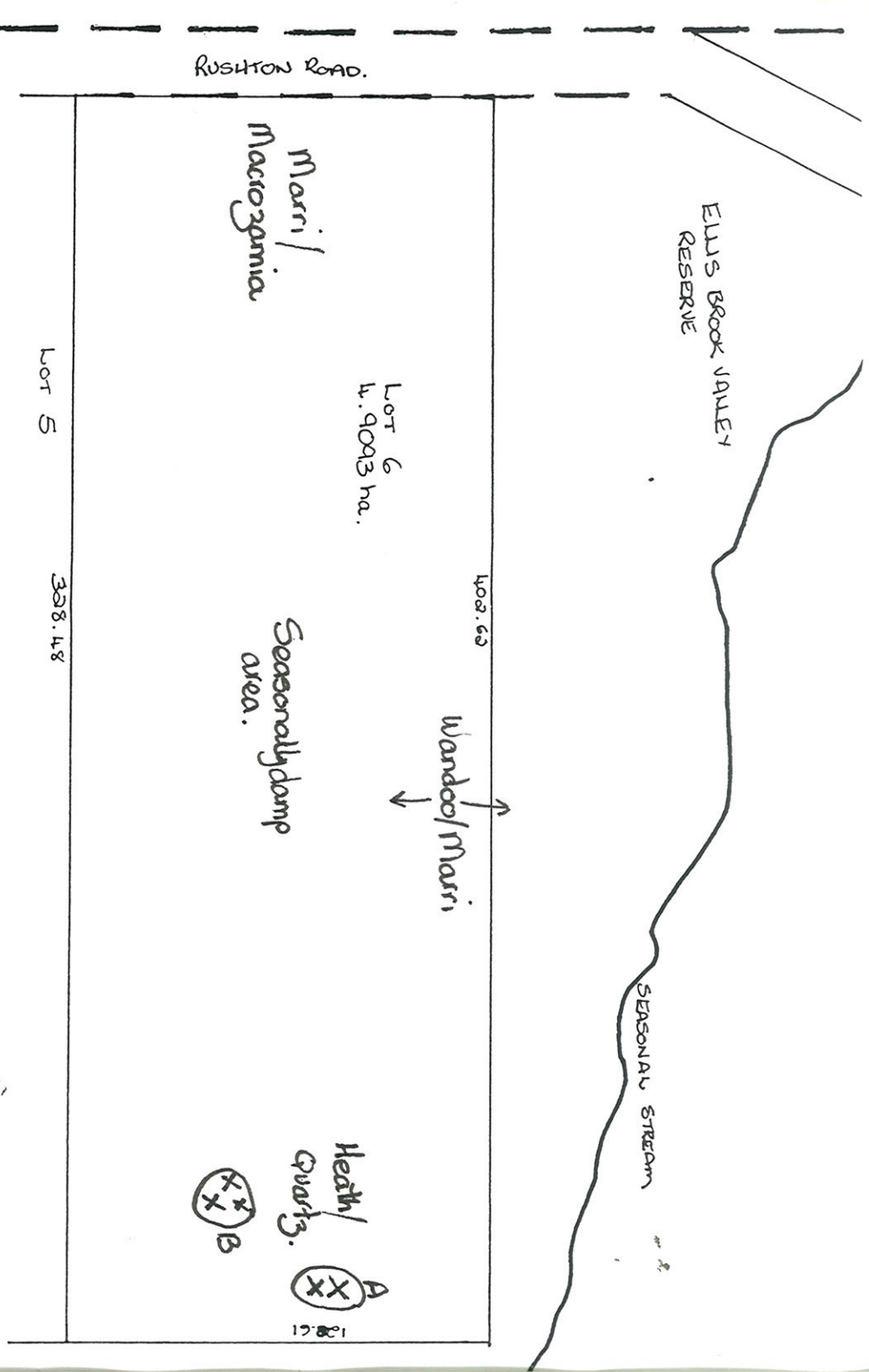
402.63



Photo: A.



:B



ELLIS BROOK VALLEY RESERVE

SEASONAL STREAM

RUSHTON ROAD.

Marri/Wandoo.

Lot 6
4.9093 ha.
A.
X
Hakea myrtilloides.

Marri/Macrozamia

Seasonally damp area

Heath/Quartz
X B. → →

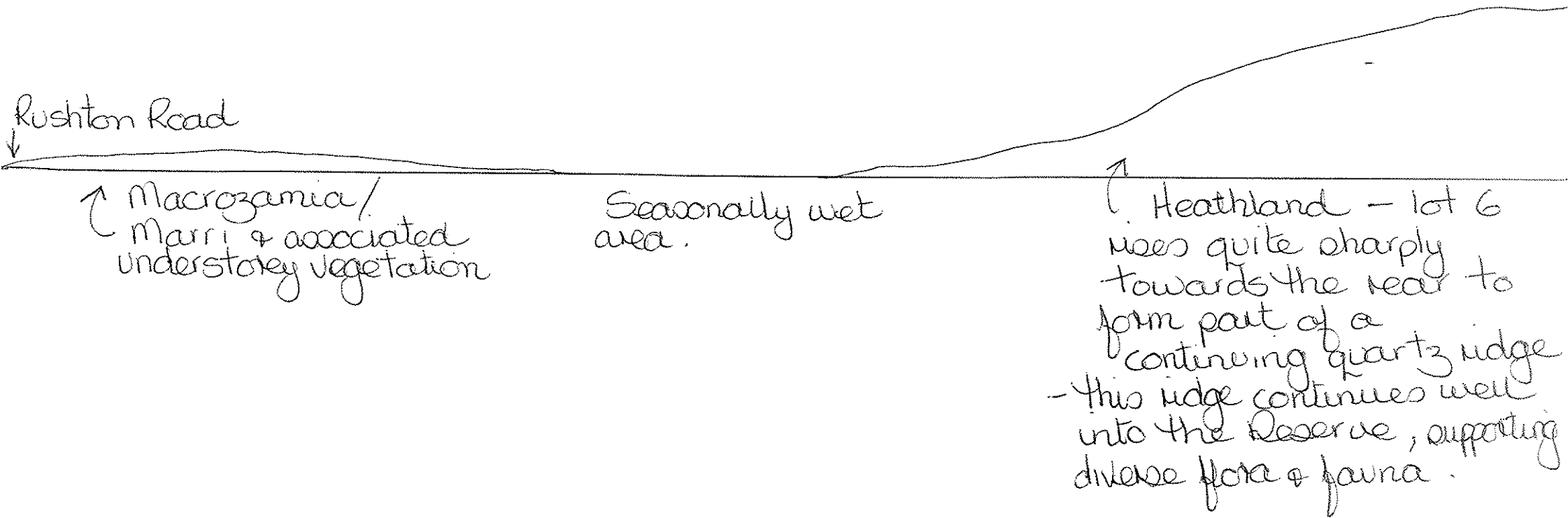
Lot 5

328.48

1281



Ellis Brook Valley Reserve.
Friends of Ellis Brook Valley (Inc).



Rushton Road

↑ Macrozamia /
Marri & associated
understorey vegetation

Seasonally wet
area.

↑ Heathland - lot 6
rises quite sharply
towards the rear to
form part of a
continuing quartz ridge
- this ridge continues well
into the Reserve, supporting
diverse flora & fauna.

SYSTEM 6 BUSHLAND SUBMISSION FORM FOR CONSIDERATION IN THE UPDATE PROGRAMME

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 Rushton Rd.

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: Rushton + Quarry Rds.

c) Lot Number: 1-6 Street Number:

d) Town/Suburb/Location: Mansfield

e) Local Council: City of Ipswich

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:

See DEP map "Threatened or Poorly Reserved Plant Communities"

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:

See Darling Range Seedley - Regional Park.

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) *City of Gosnell*

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*

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)
Was identified in Study for Darling Range Regional Park - important flora - adjacent Proposed Park - should be included.

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
- 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)

Do you know what they are?

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?

..... *Adyamis, Ellis, Broak Valley / Part of proposed Darling Range Regional Park*
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.



Town Clerk
City of Gosnells
Locked Bag No. 1
GOSNELLS WA 6110

Your Ref
Our Ref
Enquiries

67/91
N Thorning

Head Office:
8th Floor, Westralia Square
141 St Georges Terrace
Perth, Western Australia 6000
Tel (09) 222 7000 Fax (09) 322 1598

Waste Management Division:
Ground Floor, 32 St Georges Terrace
Perth, Western Australia 6000
Tel (09) 222 0422 Fax (09) 222 0455
or PO Box Y3030, East, St Georges Terrace
Perth, Western Australia 6832

Regional Offices:
Bunbury • Karratha • Kalgoorlie • Kwinana

ATTENTION: MR WAYNE VAN LIEVEN

SYSTEM SIX UPDATE PROGRAMME - FLORA SURVEY INFORMATION

Thank you for providing permission for our botanical team to survey the bushland on your property. As arranged between Mr Wayne van Lieven and Mr Gary Whisson of this Department, the bushland on Ellis Brook Valley Reserve and adjacent bushland on Rushton Rd was visited on 17 September 1995. I apologise for the delay in correspondence since the visit to these areas.

The botanical survey provides us with information on the natural plant communities found in the area, and their condition. This information is needed to assist the Department of Environmental Protection in its programme to update the conservation recommendations for System 6 and the coastal plain portion of System 1. The main objective of the programme is to ensure that the proposed conservation estate is representative of the ecological communities extant in the region.

As indicated in my earlier letter seeking approval to survey your vegetation, the fact that we visited and surveyed the site does not indicate that it will necessarily be included in the updated System Six Recommendations.

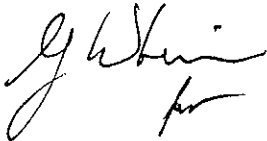
Six and three survey sites were located on the properties respectively and metal fence droppers were left in each corner of the 10 metres by 10 metres square survey sites. We may wish to revisit these sites at a later date, if so, we will contact you prior to our visit. A general description of the vegetation and an assessment of its condition was also completed.

The information collected during the visits will be used to assess the relative conservation values of the bushland areas. The final selections for inclusion in the updated System Six Recommendations will be the best possible examples of bushland containing plant community types that are either unrepresented or poorly represented in the current and proposed conservation system.

If you are interested in the information we have collected, the location of the survey sites or any other additional information on the System Six Update Programme please don't hesitate to contact Miss Natalie Thorning (222 7051) or Mr Kevin McAlpine (222 7055).

Once again, thank you very much for your support for this programme.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Colin Sanders', with a stylized flourish underneath.

Colin Sanders
DIRECTOR
POLICY AND STRATEGIC STUDIES

27 December 1995

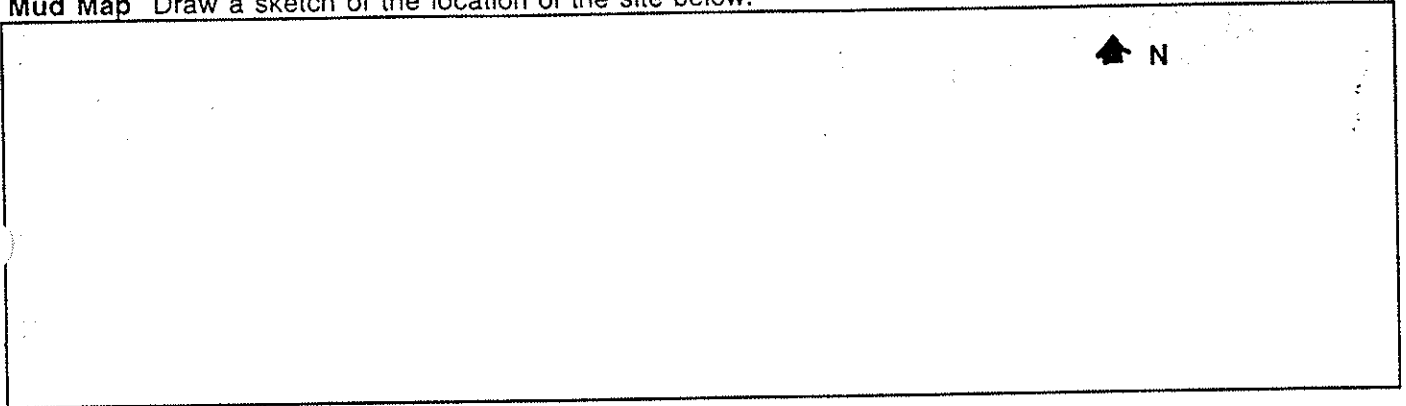
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA 1 ADJ ELLIS BROOK SITE NUMBER NA
 DATE TRIP 10/10/94 RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST BJK

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

1. LOCATION of the QUADRAT

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



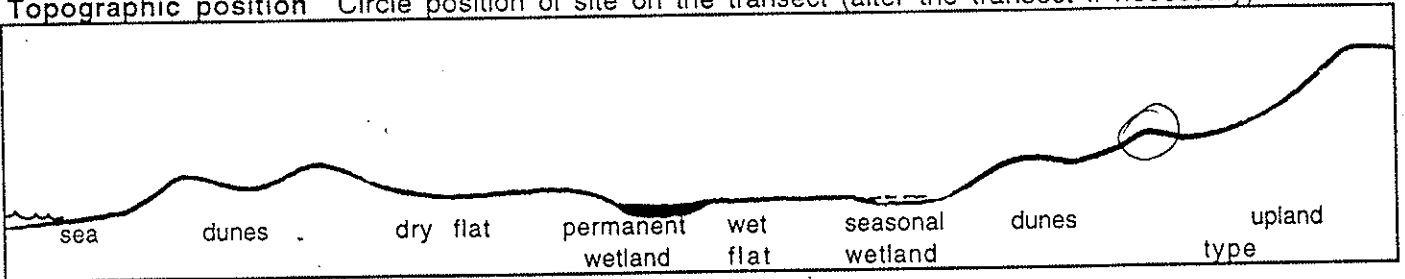
Road Location Quarry Rd

Geographic Location Latitude _____ S Longitude _____ N 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 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 Depth 100 % cover _____ Bare Ground 0 % cover _____
 Depth 5 cm















BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

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

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below) and dominant species in each layer.

Cover Class 2-10% 10-30% 30 - 70% over 70%

		TREES			MALLEES	
		over 30m	15 - 30m	5 - 15m under 5m	over 8m	under 8m
LIFE FORM				 Jarrah or Banksia att/manz	 low woodland A to low forest A Euc mang ? ssp elegantella VSP	
COVER CLASS (%)				10-30 to 30-70		
DOMINANT SPECIES						
		SHRUBS			SHRUBS	
		over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM			 Scattered H. ruscifolia H. trif.	 Heath B	 Low Heath C	
COVER CLASS (%)				30-70	30-70%	
DOMINANT SPECIES				Lamb multi Allo hum Lath 20cm	Mixed	
		GRASSES	HERBS	SEDGES	SEDGES	
				over 0.5m	under 0.5m	
LIFE FORM				 Tall Sedges		
COVER CLASS (%)				30-70		
DOMINANT SPECIES		Danthonia pilosa.		Meso let Meso pseudo		

4. VEGETATION CONDITION

1	'PRISTINE'		COMMENTS Weeds edge & disturbed areas
2	EXCELLENT	<input checked="" type="checkbox"/>	
3	VERY GOOD		
4	GOOD		
5	DEGRADED		

Note = Banksia Woodland 20m !!

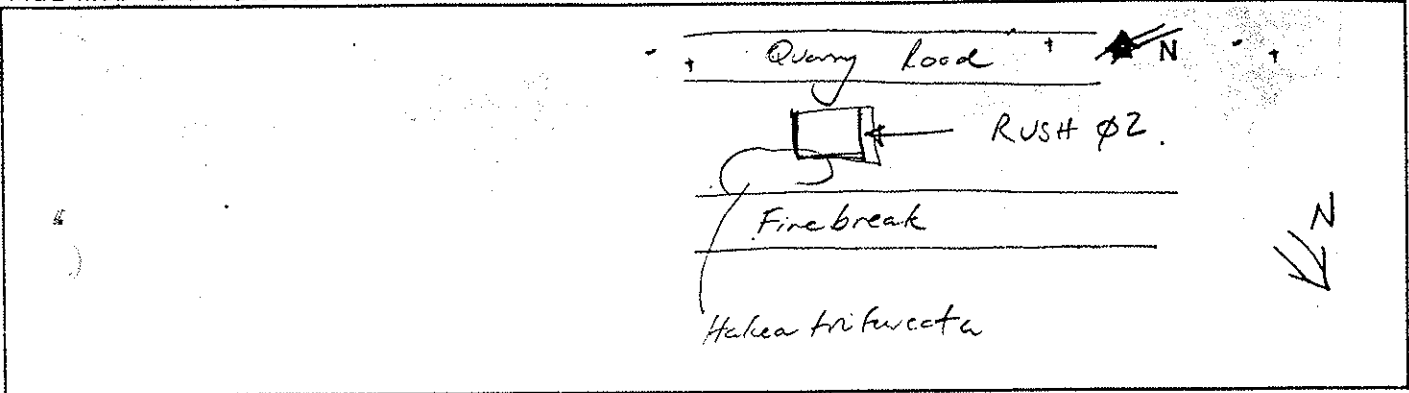
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Rushton Road SITE NUMBER Rush 2
 DATE TRIP 17.9.95 RECORDERS Ann G. Bronkaylang, Helen Hett, Ann H, Rae P.
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 2 Nedlands WA 6008.

1. LOCATION of the QUADRAT

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



Road Location

Geographic Location Latitude 32°03.797 S Longitude 116°01.234 E Altitude

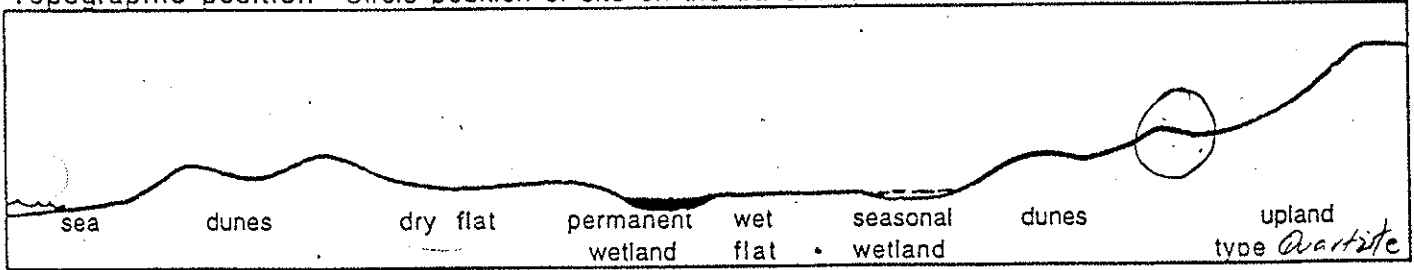
Reference Map

Photograph

Photographer's Name

Photo No

Topographic position Circle the 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 pale yellow
 Exposed rock type % surface nil.

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

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

Litter	<u>>70%</u> % cover	Bare Ground	<u>2-10</u> % cover
Depth	<u>0-10</u> cm		

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

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

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below), and dominant species in each layer.

Cover Class 2-10% 10-30% 30-70% over 70%

LIFE FORM	TREES			MALLEES	
	over 30m	15-30m	5-15m under 5m 2-10%	over 8m	under 8m
			 = <i>Allocasuarina humilis</i>	 Low forest A Open low woodland B	
COVER CLASS (%)					
DOMINANT SPECIES			<i>Banksia menziesii</i> <i>Nuyttia floribunda</i>		
LIFE FORM	SHRUBS				
	over 2m	2m-1.5m	1.5-1m	1-0.5m	under 0.5m
			 Low scrub B	 Dwarf scrub C	 Dwarf scrub D
COVER CLASS (%)	2-10%	< 2%	10-30%	10-30%	10-30%
DOMINANT SPECIES	<i>Hakea tricuspidata</i>	<i>Xanthorrhoea</i>	<i>Conospermum</i>	<i>Lambertia (multiplex)</i> <i>Kremora</i>	mixed <i>Calytrix</i>
LIFE FORM	GRASSES	HERBS	SEDGES	SEDGES	
			over 0.5m	under 0.5m	
COVER CLASS (%)	< 2%	< 2%		2-10%	
DOMINANT SPECIES					

4. VEGETATION CONDITION

1	'PRISTINE'	
2	EXCELLENT	✓
3	VERY GOOD	
4	GOOD	
5	DEGRADED	

COMMENTS
Long unburnt.





ELLIS
Brook

WILD 1574 UAGA
№ 13037 152.72

100057

- 5 0 2 2 - 1 2 6 8 - 5 6 1 0 0 0 1 8 0 0 2 4 0 5 6 -

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