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Rudon-Titlenup road flora, Sept 1997

Wommenup?

APPENDIX 2

Flora Survey List

(Hart, Simpson and Associates)

APPENDIX 2. List of the flora, with the recorded occurrence of each species at each site.

The collection No. is given where a specimen was collected.

The occurrence of each species is listed for the sites where detailed collecting has been carried out, and other records are given by site number.

The life form is given for each species as:

T = Tree

S = Shrub, including climbers, small sub-shrubs and large perennial trunked herbs >1m

PH = Perennial herb, including all bulbous species

AH = Annual herb

PG = Perennial grass

W = Weed of any form

Introduced species are identified by an asterisk (*).

WONNERUP-TUTUNUP ROAD FLORA, SEPTEMBER 1997...

comes not in SP within which is visited

	No.	1	2	3	5	8	13	Other sites	LF
FERNS									
LINDSABACEAE									
Lindsaea linearis ✓	4693					X			PH
GYMNOSPERMS									
PODOCARPACEAE									
Podocarpus drouynianus ✓	4664	X						10	S
DICOTYLEDONS									
APIACEAE									
Hydrocotyle alata ✓	4751			X					AH
Trachymene pilosa ✓	4632	X							AH
Xanthosia ciliata ✓	4688	X				X			S
ASTERACEAE									
* Arctotheca calendula ✓				X					W
* Cotula turbinata ✓	4633	X		X					W
Hyalosperma cotula ✓	4718				X		X		AH
* Hypochaeris glabra ✓		X			X	X			W
* Pseudognaphalium luteoalbum ✓	4764A							6	W
* Ursinia anthemoides ✓		X				X			W
BRASSICACEAE									
* Heliophila pusilla ✓	4722			X	X		X		W
CAESALPINIACEAE									
Labiichea punctata ✓	4648	X							S
CASUARINACEAE									
Allocasuarina humilis ✓								15, 17	S
DILLENACEAE									
Hibbertia amplexicaulis ✓	4641	X							S
Hibbertia hypericoides ✓	4639	X							S
Hibbertia vaginata ✓	4640	X							S
DROSERACEAE									
Drosera gigantea subsp. gigantea ✓	4749			X					PH
Drosera glanduligera ✓	4629	X	X	X	X	X	X		AH
Drosera macrantha ✓	4743				X				PH
Drosera neesii subsp. neesii ✓	4717		X	X					PH
Drosera pallida ✓	4690	X							PH
Drosera stolonifera subsp. stolonifera ✓	4630	X		X	X				PH
Drosera sp. rosette ✓									PH
EPACRIDACEAE									
Astroloma ciliatum ✓	4687	X							
Leucopogon glabellus ✓	4653	X							S
Leucopogon assimilis ✓	4746				X				

WONNERUP-TUTUNUP ROAD FLORA, SEPTEMBER 1997.

	No.	1	2	3	5	8	13	Other sites	LF
	4654	X							S
<i>Styphelia tenuiflora</i>	4667	X							
GENTIANACEAE									
* <i>Cicendia filiformis</i>	4750			X					W
GOODENIACEAE									
<i>Dampiera linearis</i>	4636	X				X			S
<i>Goodenia pedunculata</i>	4726			X	X		X		S
	4728						X		S
<i>Goodenia pedunculata</i> (white variant)	4727						X		S
<i>Scaevola calliptera</i>	4694					X			
LAMIACEAE									
<i>Hemiandra linearis</i>	4685	X							S
<i>Hemiandra pungens</i> (ironstone variant)	4729		X	X	X		X		S
LENTIBULARIACEAE									
<i>Utricularia inaequalis</i>	4714		X	X	X		X		AH
<i>Utricularia tenella</i>	4756		X						AH
LOGANIACEAE									
<i>Logania serpyllifolia</i> subsp. <i>angustifolia</i>	4691	X				X			S
LORANTHACEAE									
<i>Nuytsia floribunda</i>								14, 15, 17	T
MIMOSACEAE									
<i>Acacia extensa</i>	4649	X			X				S
<i>Acacia pulchella</i>	4651	X	X	X	X	X	X	6, 7, 10	S
<i>Acacia saligna</i>	4709		X	X	X	X	X		S
<i>Acacia semitrullata</i>	4652	X							S
<i>Acacia stenoptera</i>	4650	X	X	X	X	X	X		S
MYRTACEAE									
<i>Agonis flexuosa</i>		X						9, 10	T
<i>Calothamnus quadrifidus</i> (ironstone variant)	4723				X		X		S
<i>Calothamnus sanguineus</i>	4656	X							S
<i>Chamelaucium roycei</i>			X	X	X		X	14	S
<i>Corymbia calophylla</i>		X				X		6, 7, 8, 10, 12, 14, 15,	T
<i>Darwinia oederoides</i>	4706			X		X	X		S
<i>Eucalyptus marginata</i>		X				X		10	T
<i>Eucalyptus rudis</i>				X	X			4, 11	T
<i>Hypocalymma angustifolium</i>	4704			X		X	X		S
<i>Hypocalymma robustum</i>	4657	X				X			S
<i>Kunzea micrantha</i>	4724		X	X	X		X		S
<i>Melaleuca incana</i>	4705						X		S
<i>Melaleuca pauciflora</i>	4760		X						S
<i>Melaleuca preissiana</i>			X	X				4, 6, 7, 9, 14	T
<i>Melaleuca thymoides</i>	4666	X							
<i>Melaleuca uncinata</i>	4759		X					14, 16	S
<i>Melaleuca viminea</i> subsp. <i>viminea</i>	4758		X						S

WONNERUP-TUTUNUP ROAD FLORA, SEPTEMBER 1997.

	No.	1	2	3	5	8	13	Other sites	LF
<i>Pericalymma ellipticum</i> ✓	4744			X	X		X	14, 16	S
PAPILIONACEAE									
<i>Bossiaea eriocarpa</i> ✓	4698	X				X			S
<i>Bossiaea ornata</i> ✓	4642	X							S
<i>Bossiaea pulchella</i> ✓	4643	X							S
<i>Daviesia divaricata</i> ✓	4647	X							S
<i>Daviesia physodes</i> ✓	4646	X							S
<i>Eutaxia virgata</i> ✓	4701		X	X		X	X		S
<i>Gompholobium capitatum</i> ✓	4684	X				X			S
<i>Gompholobium knightianum</i> ✓	4644	X							S
<i>Gompholobium marginatum</i> ✓	4645	X							S
<i>Hovea trisperma</i> ✓	4683	X							S
<i>Jacksonia furcellata</i> ✓	4702					X		10, 15	S
<i>Kennedia coccinea</i> ✓	4692	X				X			S
<i>Mirbelia dilatata</i> ✓		X							W
* <i>Ornithopus</i> sp. ✓					X		X		W
<i>Sphaerolobium medium</i> ✓	4699					X			W
	4700					X			S
<i>Viminaria juncea</i> ✓	4703		X	X	X	X	X	11, 12, 14	S
POLYGALACEAE									
<i>Comesperma virgatum</i> ✓	4765							6	S
PROTEACEAE									
<i>Adenanthos barbiger</i> ✓	4658	X				X			S
<i>Adenanthos meisneri</i> ✓	4659	X				X	X	10	S
<i>Banksia attenuata</i> ✓		X						10	T
<i>Banksia grandis</i> ✓		X						10	T
<i>Conospermum caeruleum</i> subsp. <i>debile</i>	4725			X			X		S
<i>Conospermum flexuosum</i> subsp. <i>laevigatum</i>	4707					X	X		S
<i>Dryandra lindleyana</i> subsp. <i>lindleyana</i> var. ✓	4661	X							S
<i>Dryandra nivea</i> subsp. <i>uliginosa</i> ✓					X		X		S
<i>Dryandra squarrosa</i> subsp. <i>argillacea</i> ✓					X		X		S
<i>Grevillea elongata</i> ✓			X		X				S
<i>Grevillea manglesioides</i> ✓	4708			X	X	X	X		S
<i>Grevillea trifida</i> ✓	4662	X							S
<i>Hakea cyclocarpa</i> ✓		X							S
<i>Hakea ruscifolia</i> ✓	4660	X				X		10	S
<i>Hakea sulcata</i> ✓	4730			X	X		X		S
<i>Hakea</i> sp. <i>Williamson</i> (K and G 226) ✓	4730A						X		S
<i>Hakea</i> ? <i>varia</i> ✓			X						S
<i>Isopogon formosus</i> subsp. <i>dasylepis</i> ✓	4766							6	S
<i>Isopogon sphaerocephalus</i> ✓	4665	X							S
<i>Petrophile linearis</i> ✓	4682	X							S
<i>Petrophile squamata</i> ✓	4752			X					S
<i>Persoonia elliptica</i> ✓		X							S
<i>Persoonia longifolia</i> ✓	4663	X							S
<i>Persoonia saccata</i> ✓		X							S
<i>Stirlingia latifolia</i> ✓								10, 15, 17	S
<i>Synaphea petiolaris</i> subsp. <i>triloba</i> ✓	4689	X				X	X		S
<i>Xylomelum occidentale</i> ✓		X						10	T

WONNERUP-TUTUNUP ROAD FLORA, SEPTEMBER 1997.

	No.	1	2	3	5	8	13	Other sites	LF
RUBIACEAE									
<i>Opercularia vaginata</i> ✓	4747			X	X				S
RUTACEAE									
<i>Boronia dichotoma</i> ✓	4764B							6	S
<i>Boronia ramosa</i> subsp. <i>anethifolia</i> ✓	4655	X							S
SAPINDACEAE									
<i>Dodonaea ceratocarpa</i> ✓	4745				X				S
STACKHOUSIACEAE									
<i>Stackhousia monogyna</i> ✓	0						X		PH
STERCULIACEAE									
<i>Thomasia grandiflora</i> ✓	4686	X				X			S
STYLIDIACEAE									
<i>Stylidium calcaratum</i> ✓	4715				X		X		AH
<i>Stylidium repens</i> ✓	4675	X		X	X		X		PH
THYMELAEACEAE									
<i>Pimelea preissii</i> ✓	4697					X			S
MONOCOTYLEDONS									
ANTHERICACEAE									
<i>Borya scirpoidea</i> ✓	4720						X		PH
<i>Caesia micrantha</i> ✓	4696					X			PH
<i>Chamaescilla corymbosa</i> ✓	4631	X	X		X	X	X		PH
<i>Thysanotus patersonii</i> ✓	4741				X				PH
COLCHICACEAE									
<i>Burchardia congesta</i> ✓	4637	X							
<i>Burchardia multiflora</i> ✓	4721			X			X		PH
<i>Wurmbea dioica</i> subsp. <i>alba</i> ✓	4742				X				PH
CYPERACEAE									
<i>Baumea preissii</i> ✓	4762		X						PH
<i>Chorizandra enodis</i> ✓	4761		X						PH
<i>Isolepis marginata</i> ✓	4731			X	X		X		PH
<i>Lepidosperma squamatum</i> ✓	4679	X				X			PH
	4680	X							PH
<i>Lepidosperma pubisquamatum</i> ✓	4733				X		X		PH
<i>Mesomelaena tetragona</i> ✓	4710					X			PH
<i>Schoenus bifidus</i> ✓	4753			X					PH
<i>Tetraria capillaris</i> ✓						X			PH
<i>Tetraria octandra</i> ✓		X				X			PH
DASYPOGONACEAE									
<i>Dasyogon hookeri</i> ✓	4671	X							S
<i>Kingia australis</i> ✓						X		11, 12, 16	S

WONNERUP-TUTUNUP ROAD FLORA, SEPTEMBER 1997.

	No.	1	2	3	5	8	13	Other sites	LF
Lomandra nigricans ✓	4674	X							PH
Lomandra preissii ✓	4673	X				X			PH
Lomandra sericea ✓	4672	X							PH
HAEMODORACEAE									
Anigozanthos viridis ✓	4695					X			PH
Conostylis aculeata ✓	4634	X		X	X	X	X		PH
Conostylis setigera ✓	4635	X							PH
IRIDACEAE									
* Babiana stricta ✓	4713					X			W
Patersonia occidentalis ✓		X							PH
Patersonia umbrosa var. xanthina ✓	4628	X							PH
* Romulea rosea ✓		X			X		X		W
* Watsonia wordsworthiana ✓	4712					X			W
JUNCAGINACEAE									
Triglochin lineare ✓	4757		X						PH
ORCHIDACEAE									
Caladenia flava ✓	4670	X							
Diuris laxiflora ✓	4740				X				PH
Lyperanthus serratus ✓	4669	X							
Microtis sp. ✓				X					PH
Prasophyllum sp. giant ✓						X			PH
Pterostylis recurva ✓	4668	X							PH
Pterostylis aff. vittata ✓	4638	X							PH
Thelymitra flexuosa ✓	4716				X		X		PH
Thelymitra pauciflora ✓	4748				X				PH
Thelymitra sp. wide ✓		X							PH
PHILYDRACEAE									
Philydrella pygmaea ✓	4719			X	X		X		PH
POACEAE									
Austrostipa campylachne ✓	4677	X				X			PG
* Eragrostis curvula ✓						X			W
Neurachne alopecuroidea ✓	4676	X					X		PG
	4711					X			PG
RESTIONACEAE									
Desmocladius castaneus ✓	4755			X					PH
Desmocladius fascicularis ✓	4678	X							PH
Hypolaena exsulca ✓	4681	X				X			PH
Lepyrodia monoica ✓	4732			X					PH
Loxocarya magna ✓	4734			X	X		X		
	4738						X		PH
	4739						X		PH
	4754			X					PH
Meeboldina decipiens ✓	4735				X		X		PH
	4736						X		PH
Meeboldina kraussii ✓	4763		X						PH

WONNERUP-TUTUNUP ROAD FLORA, SEPTEMBER 1997.

	No.	1	2	3	5	8	13	Other sites	LF
<i>Tremulina tremulus</i> ✓	4737				X		X		PH
XANTHORRHOEACEAE									
<i>Xanthorrhoea preissii</i> ✓		X	X			X		4,6,7,8,10,12,14,15,16	S
<i>Xanthorrhoea gracilis</i> ✓		X							S

APPENDIX 1. Species and numbers of individuals of terrestrial species recorded in August 1997. The number of individuals is given or other evidence as:

S Scats
 T Tracks
 D Diggings
 N Nest
 B Bones

The sites are numbered and their location along the road is shown by the distance from the junction with the Ludlow-Hithergreen Road. The sites have been grouped into habitats of Jarrah-Marri woodland (J-M), Marri rises (Rises), wetlands and ironstones (Ir). The sites are:

Site	Distance	Nature of site.
1	7900	Jarrah-Marri woodland over shrubs on sand.
2	7400	Wetland on clay dominated by myrtaceous shrubs.
3	7300	Flooded, dominated by low shrubs and sedges.
4	6500	Ironstone.
5	5900	Flooded, dominated by dense shrubs and sedges.
6	4700	Marri on slight sandy rise.
7	4000	Highly disturbed slight sandy rise.
8	3900	Marri on slight sandy rise, with some Jarrah, over shrubs.
9	3500	Wetland, dominated by dense shrubs and sedges.
10	2300	Ironstone.
11	1900	Wetland, dominated by shrubs and sedges.
12	1400	Marri on slight sandy rise.
13	0500	Wetland, dominated by myrtaceous thickets and sedges.

Description of Threatened Ecological Community

***Eucalyptus calophylla* woodlands on heavy soils of the southern Swan Coastal Plain**

This community occurs on the heavy soils of the eastern coastal plain and consists largely of *E. calophylla* forests and woodlands of bushland remnants south of Capel. Typical and common native species include the shrubs *Acacia extensa*, *Gompholobium polymorphum*, *Billardiera variifolia*, *Hibbertia hypericoides* and *Scaevola calliptera*, and the herbs *Agrostocrinum scabrum*, *Austrostipa semibarbata* and *Lomandra purpurea*.

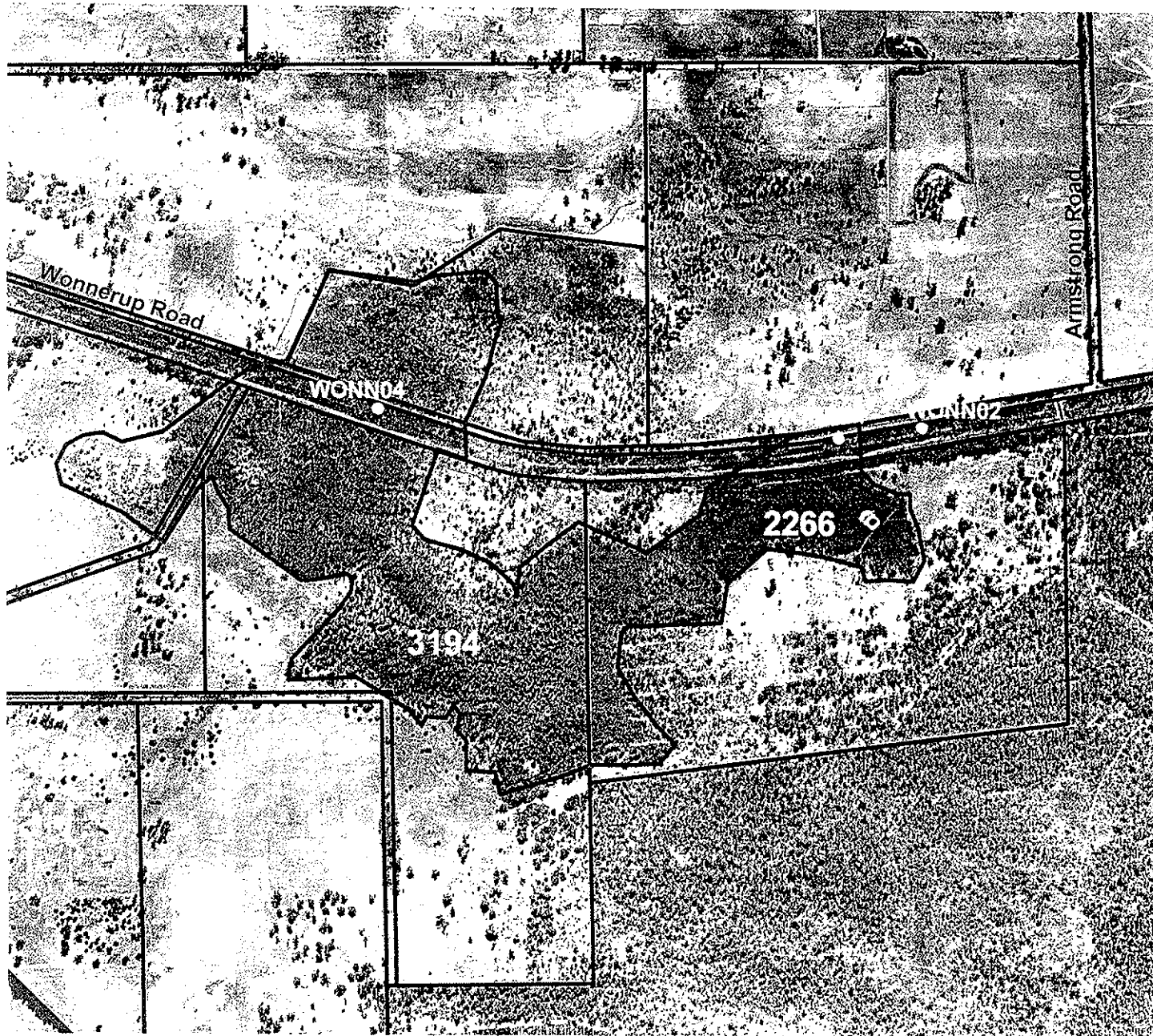
Taken from: A Floristic Survey of the Southern Swan Coastal Plain, 1994 by N. Gibson, B. Keighery, G. Keighery, A. Burbidge and M. Lyons.

Description of Threatened Ecological Community

Shrublands on southern Swan Coastal Plain Ironstones

This species-rich plant community is located on seasonal wetlands on ironstone and heavy clay soils on the Swan Coastal Plain near Busselton. Much of the species diversity comes from annuals and geophytes. Typical and common native species are the shrubs *Kunzea* aff. *micrantha* (B.J.Keighery and N.Gibson 040), *Pericalymma ellipticum*, *Hakea* sp. Williamson (B.J.Keighery and N.Gibson 226), *Hemiandra pungens* and *Viminaria juncea*, and the herbs *Aphelia cyperoides* and *Centrolepis aristata*. Many taxa in the community are highly restricted in distribution, dieback susceptible and/or are obligate seeders.

Taken from: Draft Interim Recovery Plan 2002 by Val English.



Occurrence of the Threatened
Ecological Community -
'Shrublands on southern
Swan Coastal Plain Ironstones'
at Sussex Locations 1773, 3194 and 2266

- Approximate location of community
- Property boundary

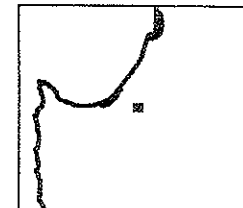


1: 12 500
1cm represents 125m

Projection: Universal Transverse Mercator, *GDA*
MGA Zone 50, Datum: GDA94

0 0.4 Kilometres

Locality Map



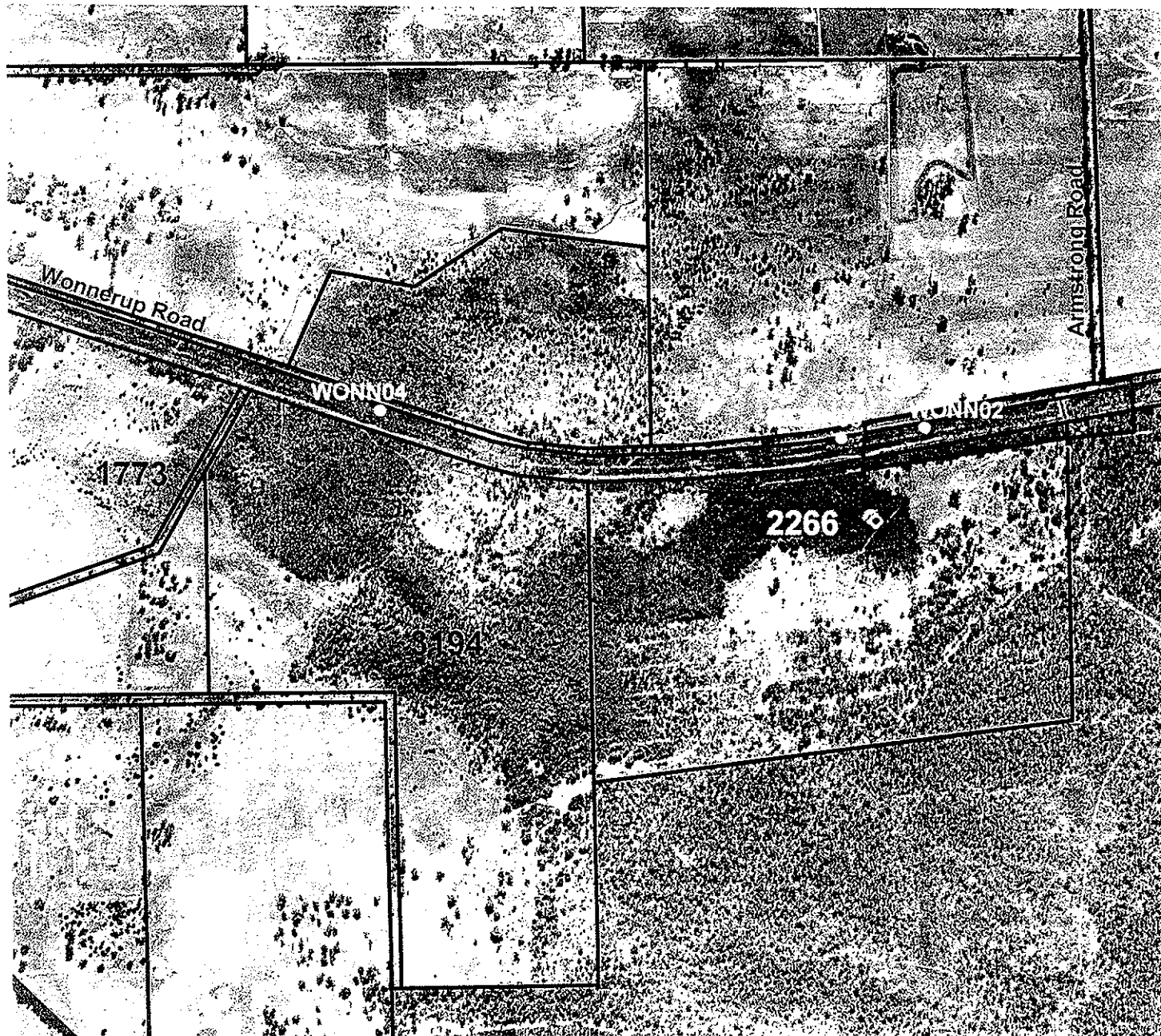
Conservation

Produced by Mia Morley
Under the Direction of
Kieran McNamara Executive Director
Department of Conservation & Land Management.

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Occurrence of the Threatened Ecological Community - *Eucalyptus calophylla* woodlands on heavy soils of the southern Swan Coastal Plain' at Sussex Location 2266

- Approximate location of community
- Property boundary

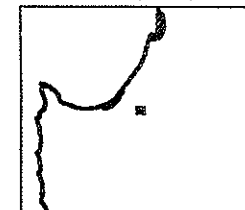


1: 12 500
1cm represents 125m

Projection: Universal Transverse Mercator, *GDA*
MGA Zone 50. Datum: GDA94

0 0.4 Kilometres

Locality Map



Department of Conservation
& Land Management

Produced by Mia Morley
Under the Direction of
Keiran McNamara Executive Director
Department of Conservation & Land Management.