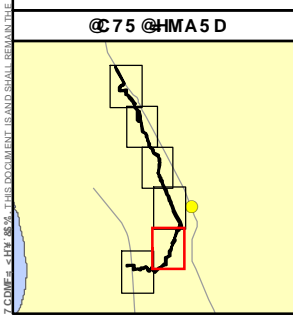


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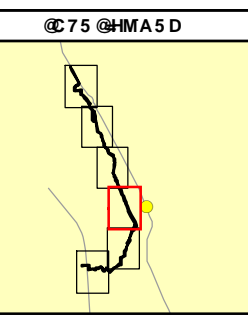
@75 @HMA5D	@Y YbX	
Survey Area	Development Envelope	; . Good (1.49 ha)
JY[YU]c b 7 c b X]jcb	J ; . Very Good (0.27 ha)	; 18 . Good-Degraded (1.63 ha)
; IJ ; . Good-Very Good (0.33 ha)	8 . Degraded (0.19 ha)	78 . Completely Degraded (41.56 ha)
85H5 GCI F79G	B# . Not Applicable (7.53 ha)	B# indicates paved/built up (roads/paths/buildings) areas and areas
LOCALITY MAP SOURCED LANDGATE 2016 AERIAL PHOTOGRAPHY SOURCED LANDGATE 2014 © Western Australian Land Information Authority 2015		

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CREATED	CHECKED	APPROVED	REVISION	DATE
MH	NW	RF	0	14/10/2016
HORIZONTAL DATUM			PROJECT NO	
GDA 1994 MGA Zone 50			1663	
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; fci bXk UHf F Yd Y]g] a Yb]GW Ya Y
@j Y' & : `cfU'Gi fj Ym
:] [i f Y + V
JY[YU]c b 7 c b X]jcb A Udd]b [

NOTE THAT POSITIONAL ERRORS MAY BE >5M IN SOME AREAS

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@75 @HMA5 D **@Y YbX**

Survey Area	Good (1.49 ha)
Development Envelope	Good-Degraded (1.63 ha)
JY[YUH]c b'7 cbX]hcb	Degraded (0.19 ha)
J; . Very Good (0.27 ha)	Completely Degraded (41.56 ha)
I; . Good-Very Good (0.33 ha)	Not Applicable (7.53 ha)

BCH9 b#J indicates paved/built up (roads/paths/buildings) areas and areas

BCH9
b#J indicates paved/built up (roads/paths/buildings) areas and areas

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85H5 'GCI F79 G

- LOCALITY MAP SOURCED LANDGATE 2006
- AERIAL PHOTOGRAPHY SOURCED LANDGATE 2014
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CREATED MH	CHECKED NW	APPROVED RF	REVISION 0	DATE 14/10/2016
HORIZONTAL DATUM GDA 1994 MGA Zone 50		PROJECT NO 1663		

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Meters
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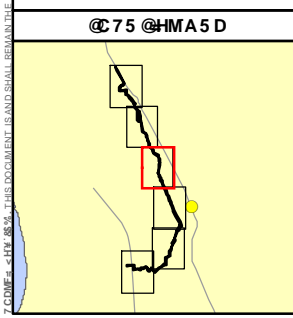
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:] [i f Y'+W
JY[YUH]c b'7 cbX]hcb'A Udd]b]

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@75 @HMA5 D	@7 YbX	
	Survey Area	; . Good (1.49 ha)
	Development Envelope	; 18 . Good-Degraded (1.63 ha)
JY[YH]c b'7 cbX]hcb		8 . Degraded (0.19 ha)
	J ; . Very Good (0.27 ha)	78 . Completely Degraded (41.56 ha)
	IJ ; . Good-Very Good (0.33 ha)	B#5 . Not Applicable (7.53 ha)
BCH9	b#U indicates paved/built up (roads/paths/buildings) areas and areas	
85H5 'GCI F79 G		SLIP ENABLER
<small> - LOCALITY MAP SOURCED LANDGATE 2016 - AERIAL PHOTOGRAPHY SOURCED LANDGATE 2014 © Western Australian Land Information Authority 2015 </small>		

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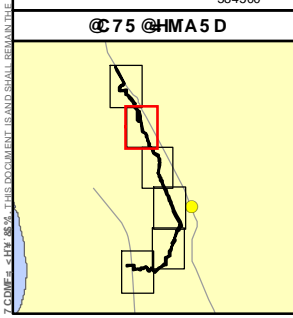
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HORIZONTAL DATUM GDA 1994 MGA Zone 50		PROJECT NO 1663		

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KUHf 7 cfdcfU]cb
 ; fci bXk UHf 'F Yd' Yb]g] a Yb]iGW Ya Y

@j Y'&: 'cfU'Gi fj Ym

:] [i f Y + X
JY[YH]c b'7 cbX]hcb 'A Udd]b[



@75 @HMA5 D	@7 YbX	
Survey Area	Development Envelope	; . Good (1.49 ha)
JY[YU]c b 7 c bX]hcb	J ; . Very Good (0.27 ha)	; 18 . Good-Degraded (1.63 ha)
; !J ; . Good-Very Good (0.33 ha)	8 . Degraded (0.19 ha)	7 8 . Completely Degraded (41.56 ha)
85H5 GCI F79 G	B# . Not Applicable (7.53 ha)	B# indicates paved/built up (roads/paths/buildings) areas and areas
BCH9		SLIP ENABLER
<small>- LOCALITY MAP SOURCED LANDGATE 2016 - AERIAL PHOTOGRAPHY SOURCED LANDGATE 2014 (© Western Australian Land Information Authority 2015)</small>		<small>NOTE THAT POSITIONAL ERRORS MAY BE >5M IN SOME AREAS</small>

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MH	NW	RF	0	14/10/2016	
HORIZONTAL DATUM			PROJECT NO		
GDA 1994 MGA Zone 50			1663		
0 25 50 100 150 200 250 Meters 1:5,000 @ A3					

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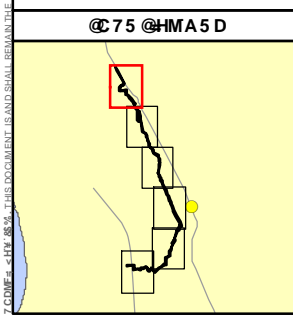
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:] [i f Y + Y
JY[YU]c b 7 c bX]hcb A Udd]b [

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@75 @HMA5 D	@7 YbX	
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	Development Envelope	; 18 . Good-Degraded (1.63 ha)
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	J ; . Very Good (0.27 ha)	78 . Completely Degraded (41.56 ha)
	IJ ; . Good-Very Good (0.33 ha)	B# . Not Applicable (7.53 ha)
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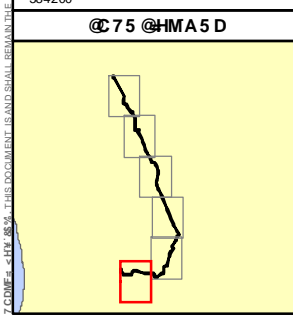
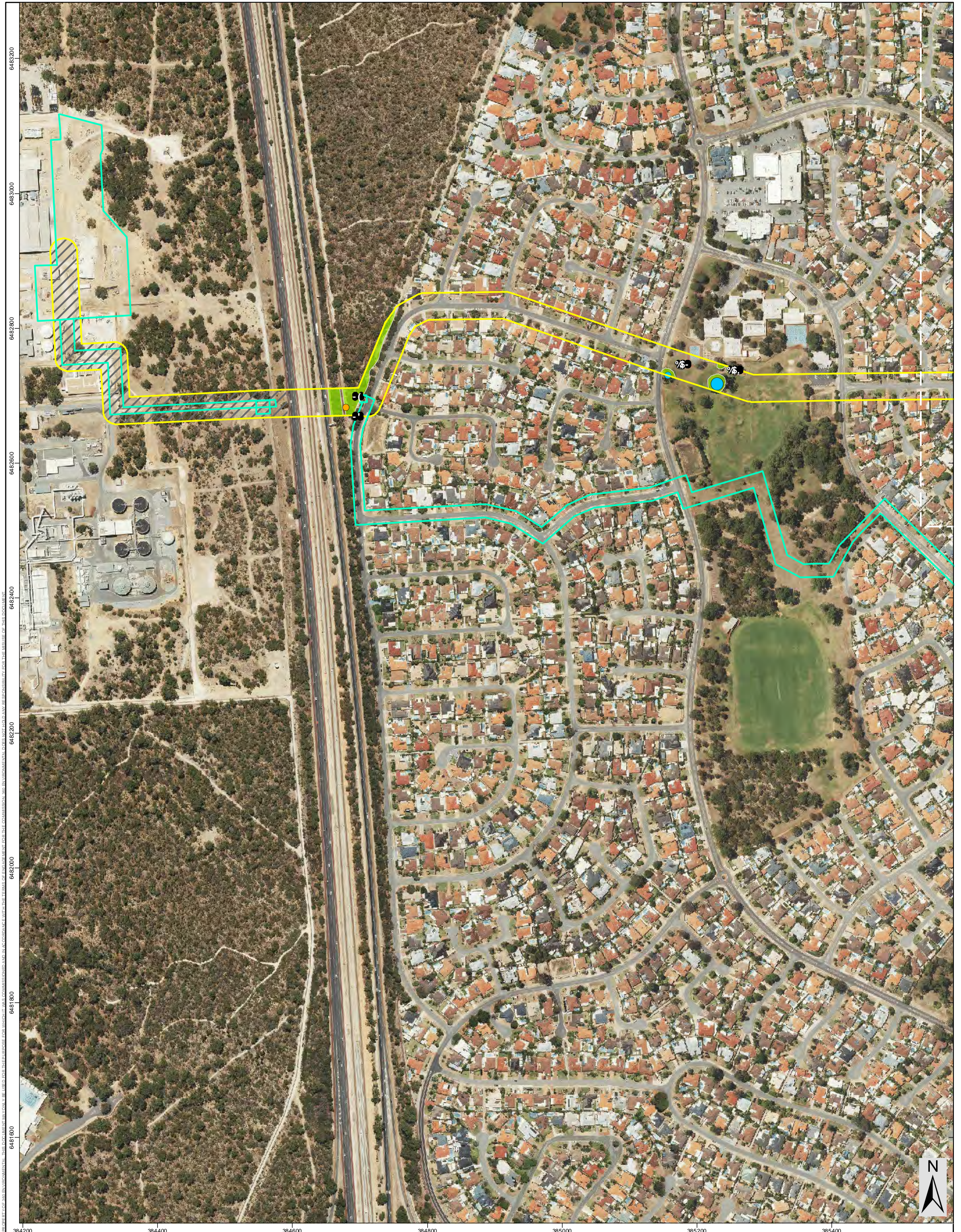
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 Meters
 1:5,000 @ A3

KUHf 7 cfdcfU]cb
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@j Y'&: `cfU'Gi fj Ym

:] [i f Y + Z
JY[YhU]c b'7 cbX]h]cb 'A Udd]b]



85H6 GCI F79 G
 - CADASTRAL BOUNDARY SOURCED FROM LANDGATE 2009
 - VEGETATION MAPPED BY 360 ENVIRONMENTAL 2016 AT A SCALE OF 1:1,000
 - LOCALITY MAP SOURCED LANDGATE 2009, AERIAL PHOTOGRAPHY SOURCED LANDGATE FEB 2016
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Development Envelope
 Survey Area
 Not Surveyed
 Foraging (10.824 ha)

DcHYbH U'67'6fYYX]b['HY Yg
 ● *Eucalyptus accedens*
 ● *Eucalyptus marginata*
 ● *Corymbia calophylla*
 ● *Eucalyptus rudis*
 ● *Eucalyptus gomphocephala*

GjnY7 UHY[cf]Yg
 ○ 500-1000mm
 ○ 1000-2000mm
 ○ >2000mm

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HORIZONTAL DATUM GDA 1994 MGA Zone 50		PROJECT NO 1663		

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 Meters
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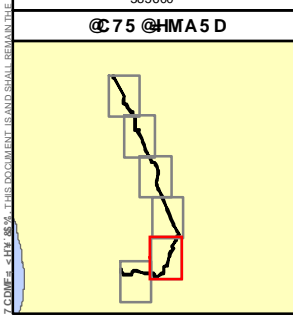
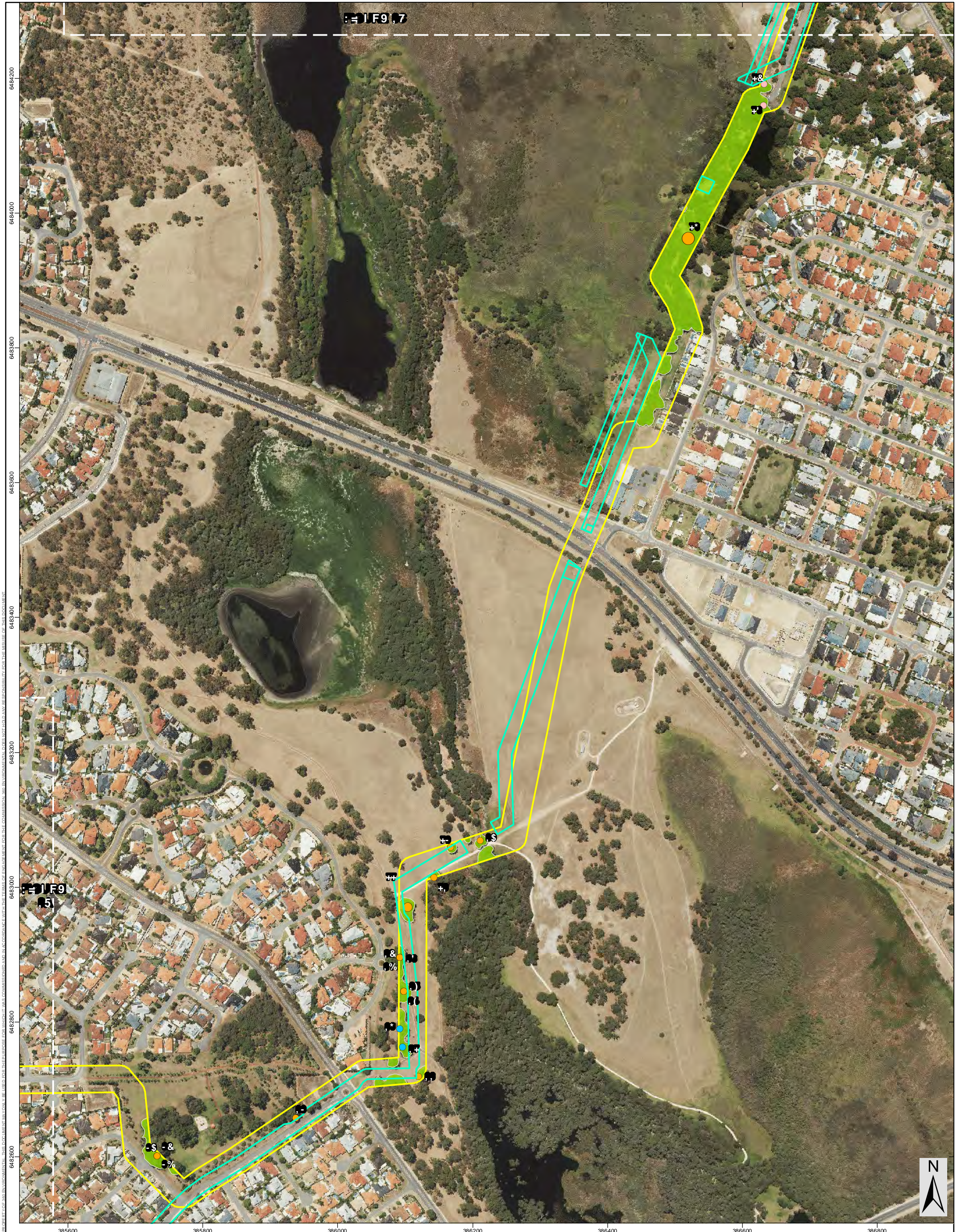
K UHY'7 cfdcfU]cb
 ; fci bXk UHY' F Yd' Yb]g] a YbhGW Ya Y

: 'cfUUbX': U bUGi fj Ym

:] [i f Y', U
 6' UW'7 cW_Utc' < UV]Hh

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385400





75 @HMA5 D

@ YbX

- Development Envelope
- Survey Area
- Not Surveyed
- Foraging (10.824 ha)

6'UW'7 cW_Utc' < UV]Hh

85H5' GCI F79 G

- CADASTRAL BOUNDARY SOURCED FROM LANDGATE 2009
- VEGETATION MAPPED BY 360 ENVIRONMENTAL 2016 AT A SCALE OF 1:1,000
- LOCALITY MAP SOURCED LANDGATE 2009, AERIAL PHOTOGRAPHY SOURCED LANDGATE FEB 2016
- (© Western Australian Land Information Authority 2016)

DcHYb]U' 6'7' 6fYYX]b] 'H'YYg

- Eucalyptus accedens*
- Eucalyptus marginata*
- Corymbia calophylla*
- Eucalyptus rudis*
- Eucalyptus gomphocephala*

G]nY7 UHY[cf]Yg

- 500-1000mm
- 1000-2000mm
- >2000mm

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HORIZONTAL DATUM GDA 1994 MGA Zone 50			PROJECT NO 1663	

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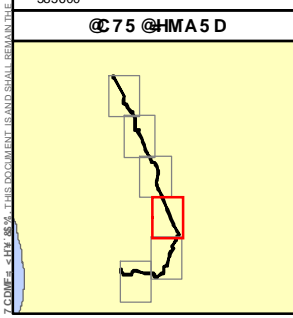
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:] [i f Y', V
6'UW'7 cW_Utc' < UV]Hh

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F9, 8

F9, 6



75 @HMA5 D

@ YbX

- Development Envelope
- Survey Area
- Not Surveyed
- Foraging (10.824 ha)

6 UW 7 cW Utcc < UV]Hh

DcHYb]U 67 6 fYX]b] HfYYg

- Eucalyptus accedens*
- Eucalyptus marginata*
- Corymbia calophylla*
- Eucalyptus rudis*
- Eucalyptus gomphocephala*

GjnY7 UH] cf]Yg

- 500-1000mm
- 1000-2000mm
- >2000mm

85H5 GCI F79 G

- CADASTRAL BOUNDARY SOURCED FROM LANDGATE 2009
- VEGETATION MAPPED BY 360 ENVIRONMENTAL 2016 AT A SCALE OF 1:1,000
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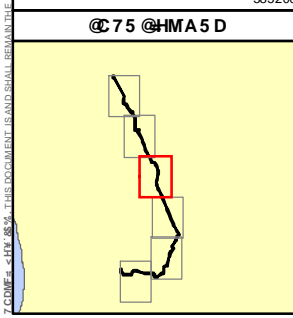
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: `cfUUbX: U bUGi fj Ym

:] i fY, W
 6 UW 7 cW Utcc < UV]Hh

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85H5 GCI F79 G

- CADASTRAL BOUNDARY SOURCED FROM LANDGATE 2009
- VEGETATION MAPPED BY 360 ENVIRONMENTAL 2016 AT A SCALE OF 1:1,000
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HORIZONTAL DATUM GDA 1994 MGA Zone 50		PROJECT NO 1663		

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 1:5,000 @ A3

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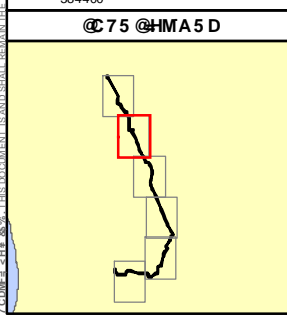
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:] [i f Y , X
 6 `UW `7 cW Utc c < UV]Hh

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F79 G

F79 G



75 @HMA5 D

@ YbX

- Development Envelope
- Survey Area
- Not Surveyed
- Foraging (10.824 ha)

DcHYbU '67 '6 fYYX]b['HYyg

- *Eucalyptus accedens*
- *Eucalyptus marginata*
- *Corymbia calophylla*
- *Eucalyptus rudis*
- *Eucalyptus gomphocephala*

GjnY7 UHY[cf]Yg

- 500-1000mm
- 1000-2000mm
- >2000mm

85H5 'GCI F79 G

- CADASTRAL BOUNDARY SOURCED FROM LANDGATE 2009
 - VEGETATION MAPPED BY 360 ENVIRONMENTAL 2016 AT A SCALE OF 1:1,000
 - LOCALITY MAP SOURCED LANDGATE 2009, AERIAL PHOTOGRAPHY SOURCED LANDGATE FEB 2016
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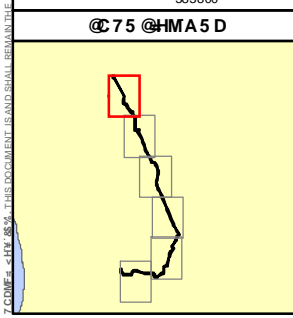
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: `cfUUbX: U bUGi fj Ym

:] [i fY, Y
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85H5 GCI F79 G

- CADASTRAL BOUNDARY SOURCED FROM LANDGATE 2009
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CREATED JJ	CHECKED NW/RF	APPROVED MRh	REVISION 0	DATE 14/10/2016
HORIZONTAL DATUM GDA 1994 MGA Zone 50			PROJECT NO 1663	

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: `cfUubX: U bUGi fj Ym

:] [i f Y, Z
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APPENDIX A

Definition of Declared Rare / Priority / Threatened Flora and Fauna Species

Categories of Declared Rare Flora (WC act) and Priority listings (DPaW)

CONSERVATION CODE	DESCRIPTION
X	<p>Presumed Extinct Flora (Declared Rare Flora – Extinct)</p> <p>“Taxa which have been adequately searched for and there is no reasonable doubt that the last individual has died, and have been gazetted as such (Schedule 2 under the <i>Wildlife Conservation Act 1950</i>).”</p>
T	<p>Threatened Flora (Declared Rare Flora – Extant)</p> <p>“Taxa which have been adequately searched for and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such (Schedule 1 under the <i>Wildlife Conservation Act 1950</i>).”</p> <p>“Threatened Flora (Schedule 1) are further ranked by the Department according to their level of threat using IUCN Red List criteria:</p> <p>CR: Critically Endangered – considered to be facing an extremely high risk of extinction in the wild;</p> <p>EN: Endangered – considered to be facing a very high risk of extinction in the wild;</p> <p>VU: Vulnerable – considered to be facing a high risk of extinction in the wild.”</p>
P1	<p>Priority One: Poorly-known taxa</p> <p>“Taxa which are known from one or a few collections or sight records (generally less than five), all on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, Shire, Westrail and Main Roads WA road, gravel and soil reserves, and active mineral leases and under threat of habitat destruction or degradation. Taxa may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes.”</p>
P2	<p>Priority Two: Poorly-known taxa</p> <p>“Taxa which are known from one or a few collections or sight records, some of which are on lands not under imminent threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, vacant Crown Land, water reserves, etc. Taxa may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes.”</p>
P3	<p>Priority Three: Poorly-known taxa</p> <p>“Taxa which are known from collections or sight records from several localities not under imminent threat, or few but widespread localities with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Taxa may be included if they are comparatively well known from several localities but do not meet</p>

CONSERVATION CODE	DESCRIPTION
	adequacy of survey requirements and known threatening processes exist that could affect them.”
P4	Priority Four: Rare, Near Threatened and other taxa in need of monitoring a. Rare. “Taxa which are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These taxa are usually represented on conservation lands.” b. Near Threatened. “Taxa that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.” c. “Taxa that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.”
P5	Priority Five: Conservation Dependent taxa “Taxa that are not threatened but are subject to a specific conservation program, the cessation of which would result in the taxon becoming threatened within five years.”

Source: Department of Parks and Wildlife (2013). Online: <http://florabase.dpaw.wa.gov.au>.

Western Australian Threatened Fauna Categories Wildlife Conservation Act 1950 (WA)

CATEGORY	CODE	DESCRIPTION
Schedule 1	S1	Rare or likely to become extinct as critically endangered fauna.
Schedule 2	S2	Fauna that is rare or is likely to become extinct as endangered fauna.
Schedule 3	S3	Fauna that is rare or is likely to become extinct as vulnerable fauna.
Schedule 4	S4	Fauna presumed to be extinct.
Schedule 5	S5	Migratory birds protected under an international agreement.
Schedule 6	S6	Fauna that is of special conservation need as conservation dependent fauna.
Schedule 7	S7	Other specially protected fauna

Department of Environment and Conservation Fauna Priority Codes

CATEGORY	CODE	DESCRIPTION
Priority 1	P1	Taxa with few, poorly known populations on threatened lands.
Priority 2	P2	Taxa with few, poorly known populations on conservation lands.

CATEGORY	CODE	DESCRIPTION
Priority 3	P3	Taxa with several, poorly known populations, some on conservation lands.
Priority 4	P4	Taxa in need of monitoring: not currently threatened or in need of special protection, but could become so. Usually represented on conservation lands.
Priority 5	P5	Taxa in need of monitoring: not considered threatened, but the subject of a specific conservation program, the cessation of which would result in the species becoming threatened within five years.

Categories of Threatened Flora and Fauna Species under the EPBC Act

CONSERVATION CODE	DESCRIPTION
Ex	Extinct Taxa which at a particular time if, at the time, there is no reasonable doubt that the last member of the species has died.
ExW	Extinct in the Wild Taxa which is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or it has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.
CE	Critically Endangered Taxa which at a particular time, it is facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria.
E	Endangered Taxa which is not critically endangered and it is facing a very high risk of extinction in the wild in the medium-term future, as determined in accordance with the prescribed criteria.
V	Vulnerable Taxa which is not critically endangered or endangered and is facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with the prescribed criteria.
CD	Conservation Dependent Taxa which at a particular time if, at that time, the species is the focus of a specific conservation program, the cessation of which would result in the species becoming vulnerable, endangered or critically endangered within a period of 5 years.

Source: *Environment Protection and Biodiversity Conservation Act 1999*

APPENDIX B

Definition of Threatened and Priority Ecological Communities

Definitions of Threatened Ecological Communities as Endorsed by the Western Australian Minister for the Environment

Presumed Totally Destroyed (PD)

An ecological community will be listed as presumed totally destroyed if there are no recent records of the community being extant and either of the following applies (A or B);

- A) Records within the last 50 years have not been confirmed despite thorough searches or known or likely habitats or
- B) All occurrences recorded within the last 50 years have since been destroyed.

Critically Endangered (CR)

An ecological community will be listed as Critically Endangered when it has been adequately surveyed and is found to be facing an extremely high risk of total destruction in the immediate future. This will be determined on the basis of the best available information, by it meeting any one or more of the following criteria (A, B or C):

- A) The estimated geographic range, and/or total area occupied, and/or number of discrete occurrences since European settlement have been reduced by at least 90% and either or both of the following apply (i or ii):
 - i) Geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is imminent (within approximately 5 years); or
 - ii) Modification throughout its range is continuing such that in the immediate future (within approximately 5 years) the community is unlikely to be capable of being substantially rehabilitated.
- B) Current distribution is limited, and one or more of the following apply (i, ii or iii):
 - i) Geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the immediate future (within approximately 5 years);
 - ii) There are very few occurrences, each of which is small and/or isolated and extremely vulnerable to known threatening processes; or
 - iii) There may be many occurrences but total area is very small and each occurrence is small and/or isolated and extremely vulnerable to known threatening processes.
- C) The ecological community exists only as highly modified occurrences which may be capable of being rehabilitated if such work begins in the immediate future (within approximately 5 years).

Endangered (EN)

An ecological community will be listed as Endangered when it has been adequately surveyed and is not Critically Endangered but is facing a very high risk of total destruction in the near future. This will be determined on the basis of the best available information, by it meeting any one or more of the following criteria (A, B or C):

- A) The estimated geographic range, and/or total area occupied, and/or number of discrete occurrences since European settlement have been reduced by at least 70% and either or both of the following apply (i or ii):
 - i) Geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is likely in the short term (within approximately 10 years); or
 - ii) Modification throughout its range is continuing such that in the short term future (within approximately 10 years) the community is unlikely to be capable of being substantially restored or rehabilitated.
- B) Current distribution is limited, and one or more of the following apply (i, ii or iii):
 - i) Geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the short term future (within approximately 10 years);
 - ii) There are very few occurrences, each of which is small and/or isolated and extremely vulnerable to known threatening processes; or
 - iii) There may be many occurrences but total area is very small and each occurrence is small and/or isolated and extremely vulnerable to known threatening processes.
- C) The ecological community exists only as highly modified occurrences which may be capable of being rehabilitated if such work begins in the short term future (within approximately 10 years).

Vulnerable (VU)

An ecological community will be listed as Vulnerable when it has been adequately surveyed and is not Critically Endangered or Endangered but is facing a high risk of total destruction in the medium to long term future. This will be determined on the basis of the best available information, by it meeting any one or more of the following criteria (A, B or C):

- A) The ecological community exists largely as modified occurrences which are likely to be capable of being substantially restored or rehabilitated;
- B) The ecological community can be modified or destroyed and would be vulnerable to threatening processes, is restricted in area and/or range and/or is only found at a few locations; or

-
- C) The ecological community may still be widespread but is believed likely to move into a category of higher threat in the medium to long term future because of existing or impending threatening processes.

Source: Department of Environment and Conservation (2010). Definitions, Categories and Criteria for Threatened and Priority Ecological Communities. Department of Environment and Conservation, Perth, Western Australia. Online: www.naturebase.net/

Definitions of Priority Ecological Communities as listed DPaW

Possible threatened ecological communities that do not meet survey criteria or that are not adequately defined are added to the Priority Ecological Community Lists under Priorities 1, 2 and 3. These three categories are ranked in order of priority for survey and/or definition of the community, and evaluation of conservation status, so that consideration can be given to their declaration as threatened ecological communities. Ecological Communities that are adequately known, and are rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list, are placed in Priority 4. These ecological communities require regular monitoring. Conservation Dependent ecological communities are placed in Priority 5.

Priority One: Poorly known ecological communities

Ecological communities with apparently few, small occurrences, all or most not actively managed for conservation (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) and for which current threats exist. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.

Priority Two: Poorly known ecological communities

Communities that are known from few small occurrences, all or most of which are actively managed for conservation (e.g. within national parks, conservation parks, nature reserves, State forest, unallocated Crown land, water reserves, etc.) and not under imminent threat of destruction or degradation.

Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.

Priority Three: Poorly known ecological communities

- Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation;
- Communities known from a few widespread occurrences, which are either large or within significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat; or
- Communities made up of large, and/or widespread occurrences, that may or not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, and inappropriate fire regimes.

Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them.

Priority Four: Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened or that have been recently removed from the threatened list.

These communities require regular monitoring:

- Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands.
- Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.
- Ecological communities that have been removed from the list of threatened communities during the past five years.

Priority Five: Conservation Dependent ecological communities.

Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.

Source: Department of Parks and Wildlife (2013). Definitions, Categories and Criteria for Threatened and Priority Ecological Communities. Department of Environment and Conservation, Perth, Western Australia. Online: www.naturebase.net/

APPENDIX C

Environmental Weeds And Declared Plant Categories

Criteria used for Ranking Environmental Weeds

The Weed Prioritisation Process for DPaW contains criteria for the assessment and ranking of weeds in terms of their environmental impact on biodiversity. These criteria are as follows:

- **Potential Distribution** – Area of potential habitat in the Region that could be occupied or the area at risk of invasion by the weed;
- **Current Distribution** - Area of habitat in the Region currently occupied by the weed, in relation to the habitat that it could invade;
- **Ecological Impact** - Impact of species within the Region, from low impact (causes minimal disruption to ecological processes or loss of biodiversity) to high (causes acute disruption of ecological processes, dominates and/or significantly alters vegetation structure, composition and function of ecosystems);
- **Invasiveness** – rate of spread of a weed in native vegetative, encompassing factors of establishment, reproduction and long distance dispersal (>100 m); and
- **Feasibility of Control** - The longer a coordinated control program takes to achieve its desired goal, the more expensive and less feasible it becomes. Is it feasible to eradicate or at least contain the infestation?

Source: DPaW (2013). Weed Prioritisation Process for DPaW (formerly DEC) – “An integrated approach to Weed Management on DPaW-managed lands in WA”

Standard Meanings of Declared Plant Categories

Under the Biosecurity and Agriculture Management Act 2007 (the BAM Act), all declared pests are placed in one of three categories, namely C1 (exclusion), C2 (eradication) or C3 (management).

C1 category (Exclusion) - Pests will be assigned to this category if they are not established in Western Australia and control measures are to be taken, including border checks, in order to prevent them entering and establishing in the State.

C2 category (Eradication) - Pests will be assigned to this category if they are present in Western Australia in low enough numbers or in sufficiently limited areas that their eradication is still a possibility.

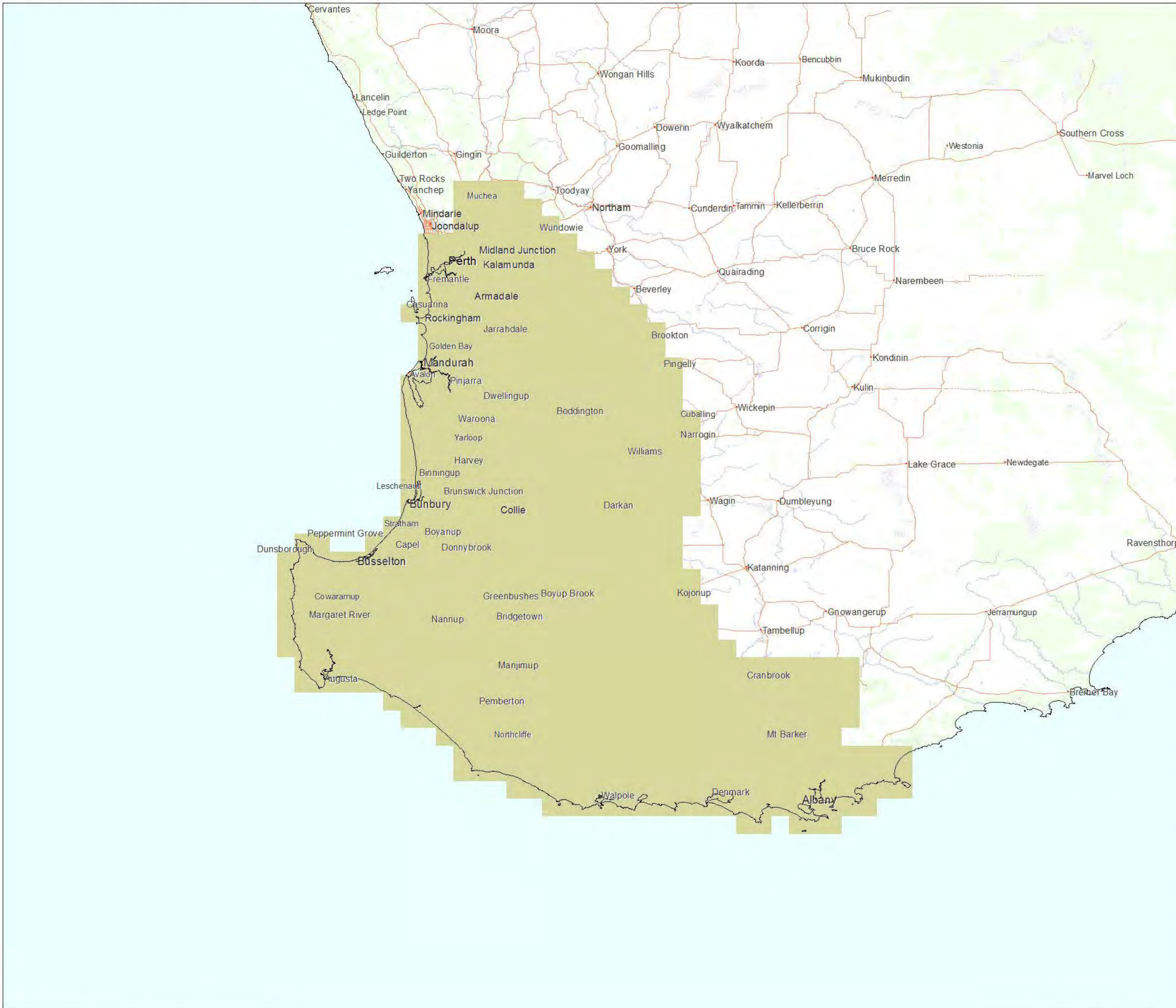
C3 category (Management) - Pests will be assigned to this category if they are established in Western Australia but it is feasible, or desirable, to manage them in order to limit their damage. Control measures can prevent a C3 pest from increasing in population size or density or moving from an area in which it is established into an area which currently is free of that pest.

Source: Department of Agriculture and Food, Western Australia. Online: <http://www.biosecurity.wa.gov.au/western-australian-organism-list-waol>

APPENDIX D

DoE Black Cockatoo Distribution Map

Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo

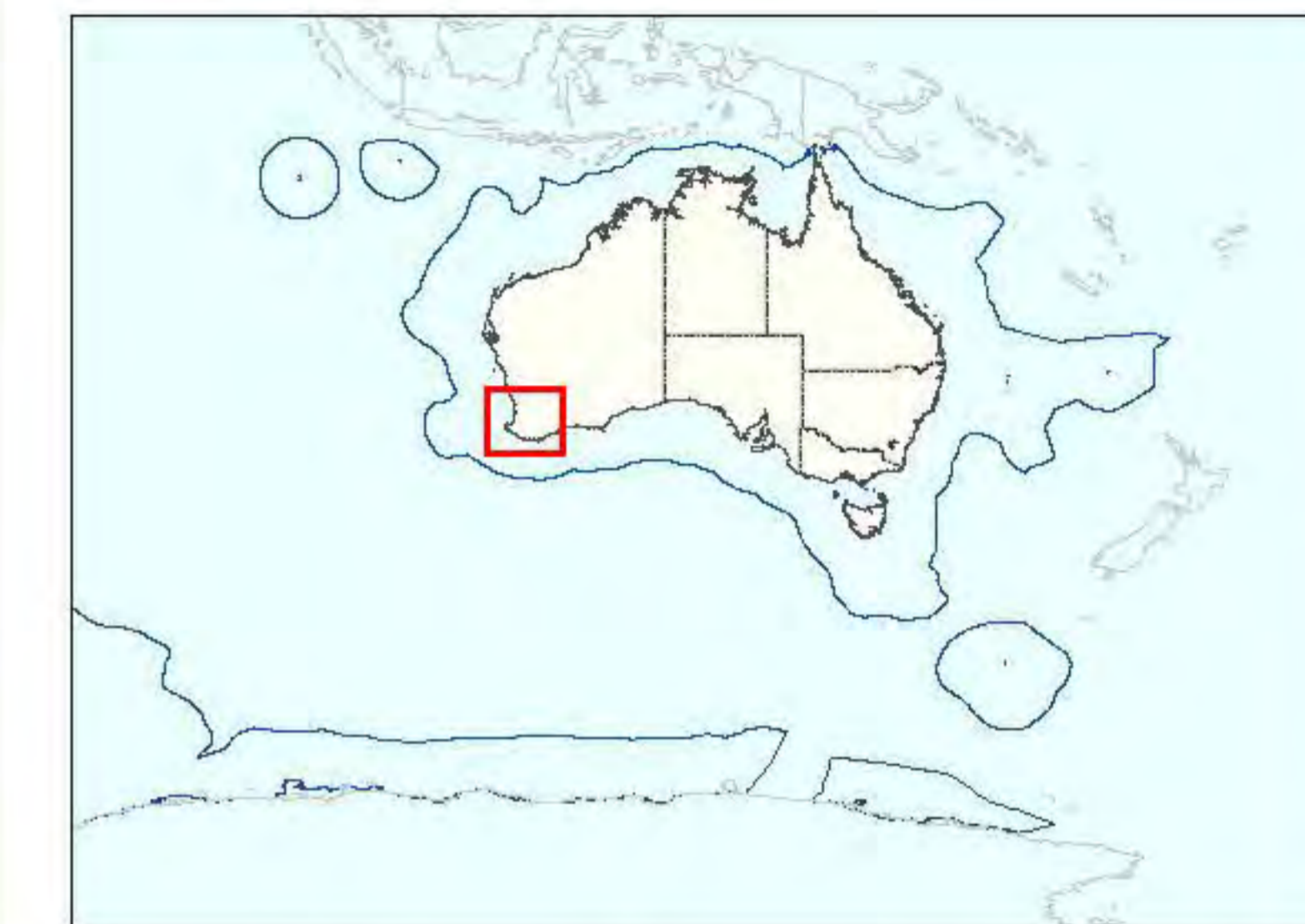


Species of National Environmental Significance, Map Summary Version 1 2014

Distribution

- Species or species habitat likely to occur
- Species or species habitat may occur

Commonwealth Marine Area



Produced by: Environmental Resources Information Network
Contextual data source: Geoscience Australia (2006), Geodata Topo 250K Topographic Data
Indicative Map Only: This map has been compiled from datasets with a range of geographic scales and quality. Species distributions are indicative only and not to be used for local assessment. Local knowledge and information should be sought to confirm the presence of the species, or its habitat, at the location of interest.



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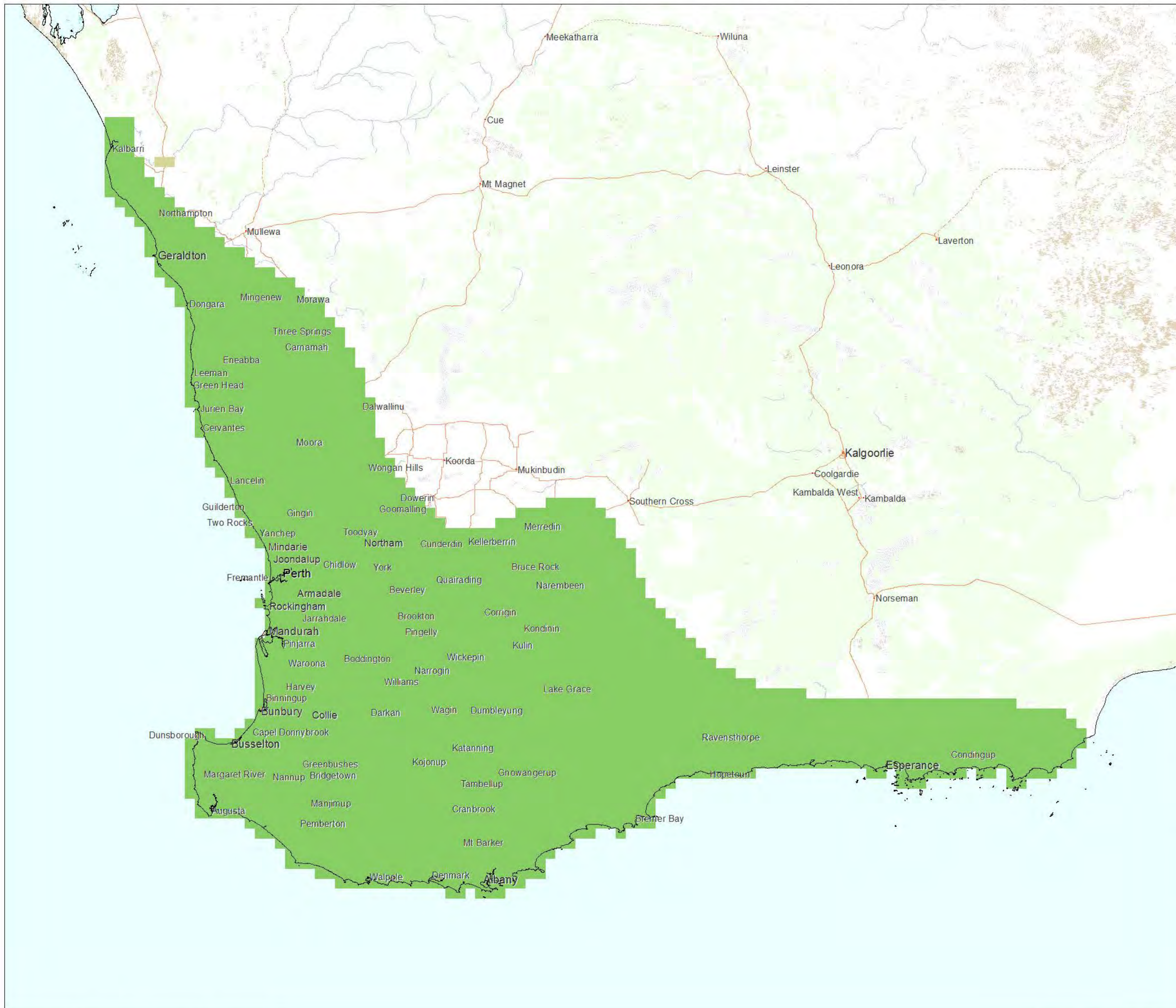
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Calyptorhynchus latirostris Carnaby's Black-Cockatoo, Short-billed Black-Cockatoo

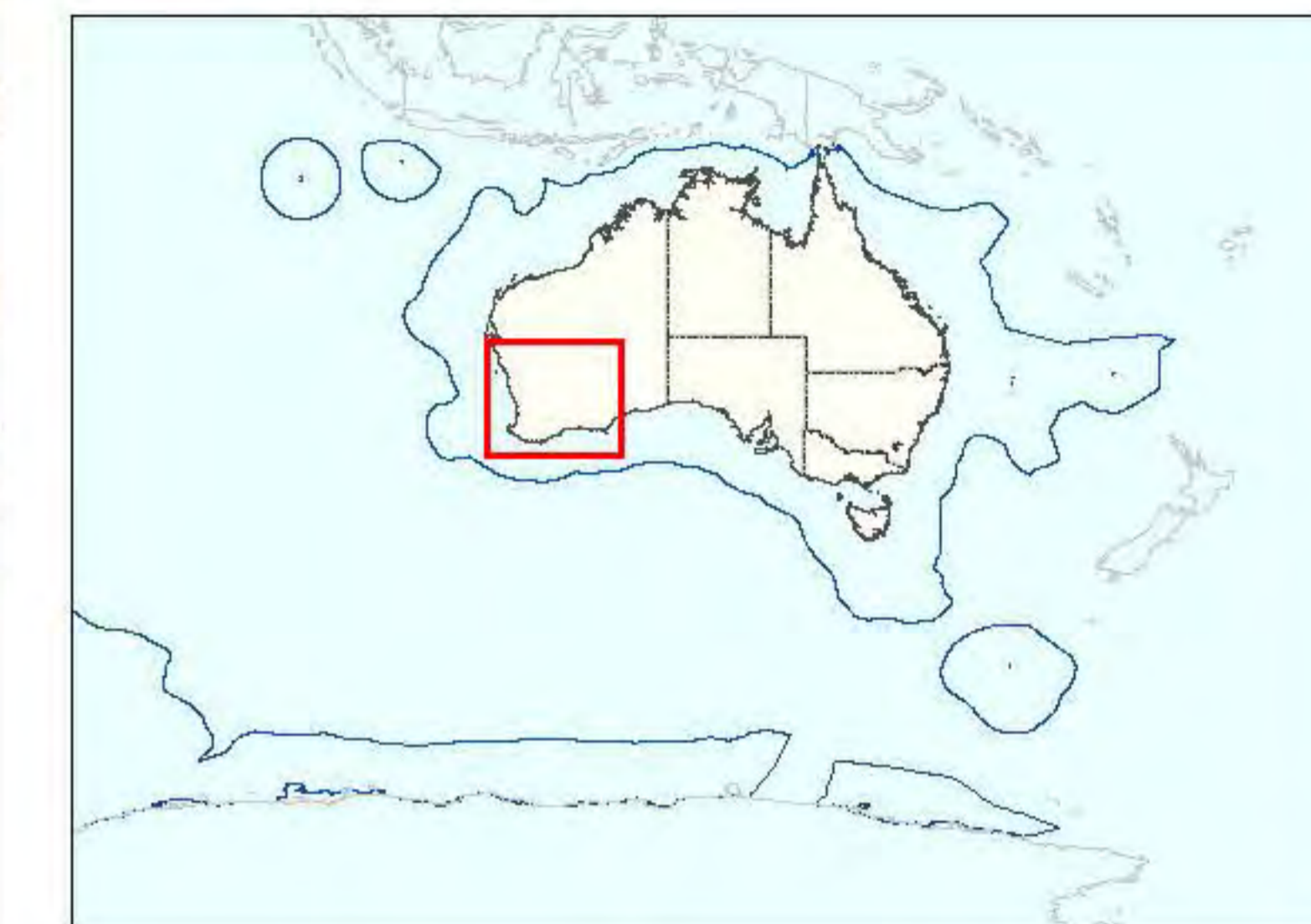


Species of National Environmental Significance, Map Summary Version 1 2014

Distribution

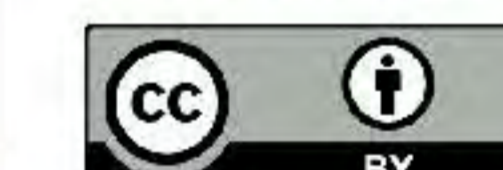
- Species or species habitat likely to occur
- Species or species habitat may occur

Commonwealth Marine Area



Produced by: Environmental Resources Information Network
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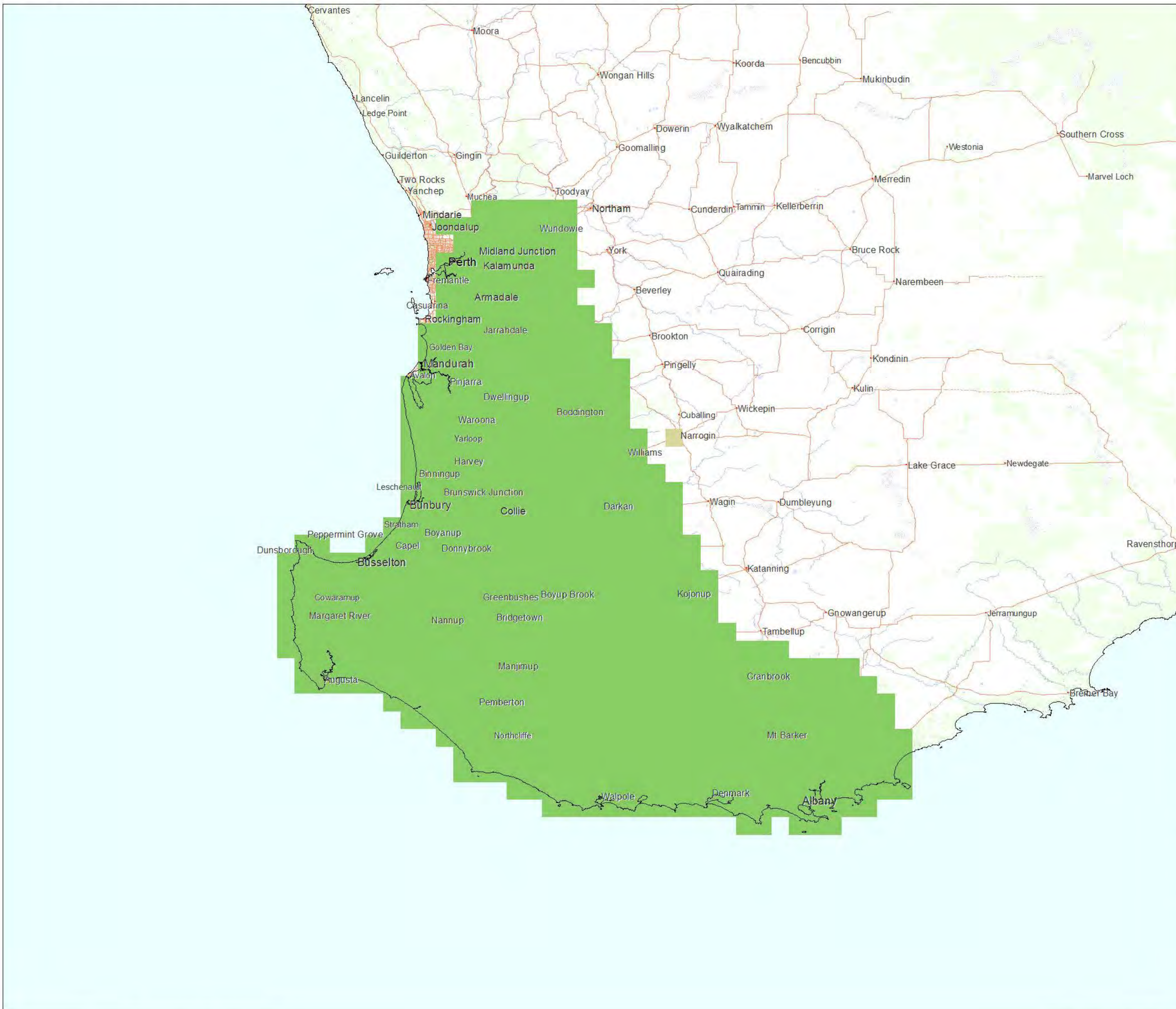
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Calyptorhynchus baudinii Baudin's Black-Cockatoo, Long-billed Black-Cockatoo

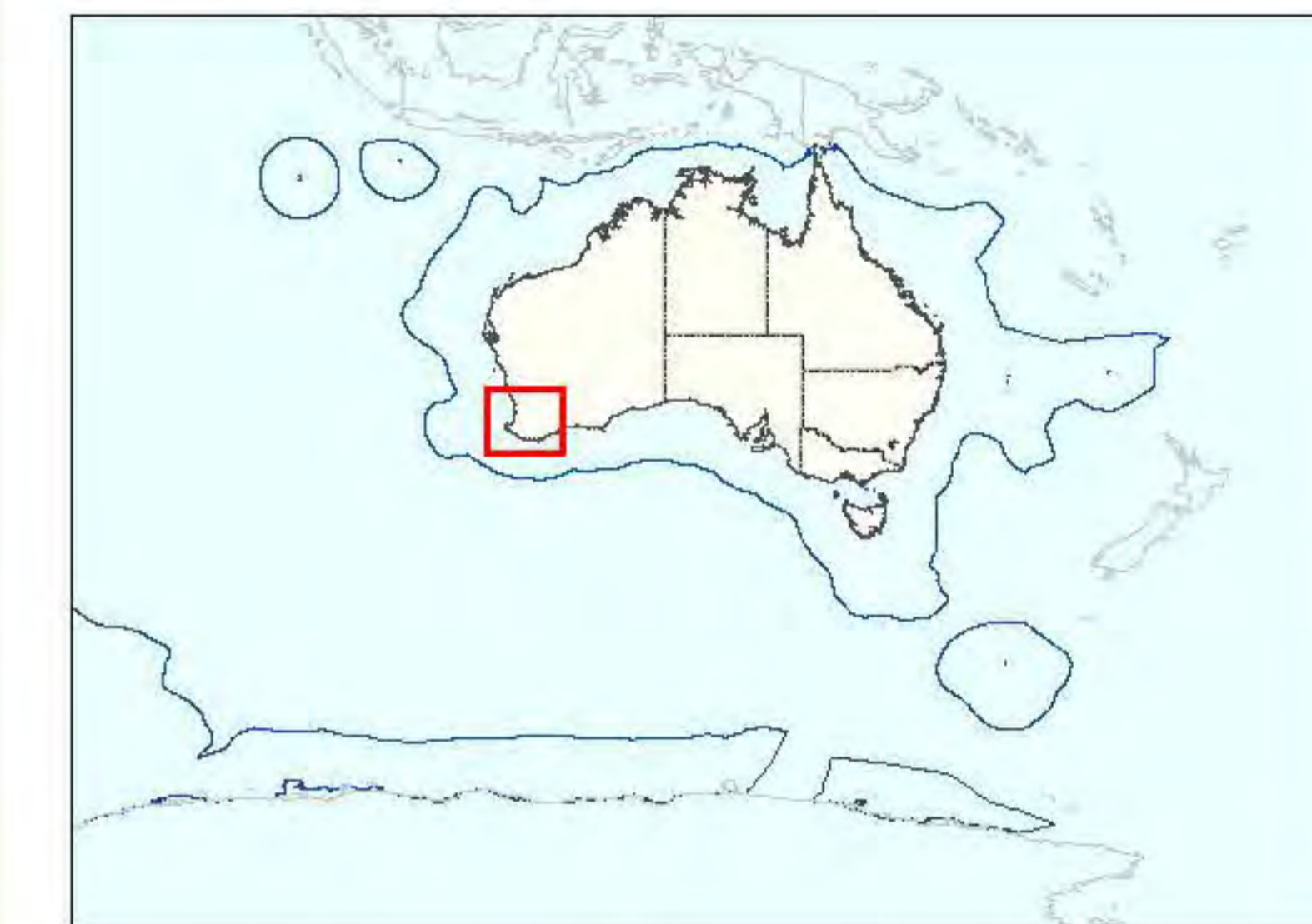


Species of National Environmental Significance, Map Summary Version 1 2014

Distribution

- Species or species habitat likely to occur
- Species or species habitat may occur

Commonwealth Marine Area



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APPENDIX E

Vegetation Condition Scale

CONDITION SCALE CODE	CONDITION SCALE
P	Pristine (1) Pristine or nearly so, no obvious signs of disturbance
E	Excellent (2) Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.
VG	Very Good (3) Vegetation structure altered obvious signs of disturbance. For example, disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.
G	Good (4) Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.
D	Degraded (5) Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.
CD	Completely Degraded (6) The structure of the vegetation is no longer intact and the area is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees or shrubs.

Source: Bush Forever Vegetation Condition Scale as developed by Keighery (1994) and summarized in Bush Forever (Government of Western Australia (2000b)

APPENDIX F

Flora Database Search Results

NatureMap Species Report

Created By Guest user on 15/04/2016

Kingdom Plantae
Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 115° 47' 23" E, 31° 45' 12" S
Buffer 5km

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1.	15466 <i>Acacia applanata</i>			
2.	3237 <i>Acacia benthamii</i>		P2	
3.	3262 <i>Acacia cochlearis</i> (Rigid Wattle)			
4.	3282 <i>Acacia cyclops</i> (Coastal Wattle)			
5.	11611 <i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>			
6.	15721 <i>Acacia lasiocarpa</i> var. <i>sedifolia</i>			
7.	17861 <i>Acacia longifolia</i>	Y		
8.	17464 <i>Acacia longifolia</i> subsp. <i>longifolia</i>	Y		
9.	15481 <i>Acacia pulchella</i> var. <i>glaberrima</i>			
10.	3525 <i>Acacia rostellifera</i> (Summer-scented Wattle)			
11.	3527 <i>Acacia saligna</i> (Orange Wattle, Kudjong)			
12.	30032 <i>Acacia saligna</i> subsp. <i>saligna</i>			
13.	3541 <i>Acacia sessilis</i>			
14.	3584 <i>Acacia truncata</i>			
15.	3602 <i>Acacia willdenowiana</i> (Grass Wattle)			
16.	17774 <i>Acetosella vulgaris</i>	Y		
17.	11837 <i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i> (Common Woollybush)			
18.	1790 <i>Adenanthos meisneri</i>			
19.	184 <i>Aira caryophylla</i> (Silvery Hairgrass)	Y		
20.	1056 <i>Alexgeorgea nitens</i>			
21.	1728 <i>Allocasuarina fraseriana</i> (Sheoak, Kondil)			
22.	2652 <i>Alternanthera nodiflora</i> (Common Joyweed)			
23.	2653 <i>Alternanthera pungens</i> (Khaki Weed)	Y		
24.	6565 <i>Alyxia buxifolia</i> (Dysentery Bush)			
25.	25840 <i>Amaranthus blitum</i>	Y		
26.	<i>Amaranthus</i> sp.			
27.	20184 <i>Amphipogon laguroides</i> subsp. <i>laguroides</i>			
28.	200 <i>Amphipogon turbinatus</i>			
29.	6311 <i>Andersonia heterophylla</i>			
30.	11471 <i>Andersonia lehmanniana</i> subsp. <i>lehmanniana</i>			
31.	1409 <i>Anigozanthos humilis</i> (Catspaw)			
32.	11434 <i>Anigozanthos humilis</i> subsp. <i>humilis</i>			
33.	1411 <i>Anigozanthos manglesii</i> (Mangles Kangaroo Paw, Kurulbrang)			
34.	11261 <i>Anigozanthos manglesii</i> subsp. <i>manglesii</i>			
35.	8595 <i>Apium graveolens</i> (Wild Celery)	Y		
36.	7838 <i>Arctotheca calendula</i> (Cape Weed)	Y		
37.	1264 <i>Arnocrinum preissii</i>			
38.	20283 <i>Astartea scoparia</i>			
39.	6323 <i>Astroloma ciliatum</i> (Candle Cranberry)			
40.	6334 <i>Astroloma pallidum</i> (Kick Bush)			
41.	6339 <i>Astroloma xerophyllum</i>			
42.	35317 <i>Austrostipa mundula</i>		P2	
43.	17246 <i>Austrostipa nitida</i>			
44.	17254 <i>Austrostipa tenuifolia</i>			
45.	16346 <i>Bacopa monnieri</i>	Y		
46.	34161 <i>Baeckea</i> sp. <i>Limestone</i> (N. Gibson & M.N. Lyons 1425)		P1	
47.	1800 <i>Banksia attenuata</i> (Slender Banksia, Piara)			
48.	1822 <i>Banksia ilicifolia</i> (Holly-leaved Banksia)			
49.	1830 <i>Banksia littoralis</i> (Swamp Banksia, Pungura)			
50.	1834 <i>Banksia menziesii</i> (Firewood Banksia)			
51.	32077 <i>Banksia sessilis</i> var. <i>cygnorum</i>			
52.	32315 <i>Barbula calycina</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
53.	741 <i>Baumea articulata</i> (Jointed Rush)			
54.	743 <i>Baumea juncea</i> (Bare Twigrush)			
55.	744 <i>Baumea laxa</i>			
56.	745 <i>Baumea preissii</i>			
57.	5382 <i>Beaufortia elegans</i>			
58.	25788 <i>Billardiera fraseri</i> (Elegant Pronaya)			
59.	749 <i>Bolboschoenus caldwellii</i> (Marsh Club-rush)			
60.	17665 <i>Boronia purdieana</i> subsp. <i>purdieana</i>			
61.	11381 <i>Boronia ramosa</i> subsp. <i>anethifolia</i>			
62.	3710 <i>Bossiaea eriocarpa</i> (Common Brown Pea)			
63.	7867 <i>Brachyscome bellidioides</i>			
64.	7878 <i>Brachyscome iberidifolia</i>			
65.	11187 <i>Brassica barrelieri</i> subsp. <i>oxyrrhina</i> (Smooth-stem Turnip)	Y		
66.	2993 <i>Brassica fruticulosa</i> (Twiggy Turnip)	Y		
67.	3000 <i>Brassica tournefortii</i> (Mediterranean Turnip)	Y		
68.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
69.	245 <i>Briza minor</i> (Shivery Grass)	Y		
70.	249 <i>Bromus diandrus</i> (Great Brome)	Y		
71.	32331 <i>Bryum lanatum</i>			
72.	12770 <i>Burchardia congesta</i>			
73.	1385 <i>Burchardia multiflora</i> (Dwarf Burchardia)			
74.	1276 <i>Caesia micrantha</i> (Pale Grass Lily)			
75.	15330 <i>Caladenia arenicola</i>			
76.	1592 <i>Caladenia flava</i> (Cowslip Orchid)			
77.	15348 <i>Caladenia flava</i> subsp. <i>flava</i>			
78.	1596 <i>Caladenia huegelii</i> (Grand Spider Orchid)		T	
79.	1599 <i>Caladenia latifolia</i> (Pink Fairy Orchid)			
80.	15360 <i>Caladenia longicauda</i> subsp. <i>borealis</i>			
81.	15361 <i>Caladenia longicauda</i> subsp. <i>calcigena</i>			
82.	15377 <i>Caladenia reptans</i> subsp. <i>reptans</i>			
83.	19309 <i>Calectasia narragara</i>			
84.	10861 <i>Callistachys lanceolata</i> (Wonnich)			
85.	96 <i>Callitris preissii</i> (Rottnest Island Pine, Maro)			
86.	5415 <i>Calothamnus lateralis</i>			
87.	35816 <i>Calothamnus quadrifidus</i> subsp. <i>quadrifidus</i>			
88.	5429 <i>Calothamnus sanguineus</i> (Silky-leaved Blood flower, Pindak)			
89.	5460 <i>Calytrix fraseri</i> (Pink Summer Calytrix)			
90.	5476 <i>Calytrix sapphirina</i>			
91.	32338 <i>Campylopus introflexus</i>	Y		
92.	3005 <i>Cardamine hirsuta</i> (Common Bittercress)	Y		
93.	<i>Cardamine</i> sp.			
94.	18555 <i>Cardamine</i> sp. <i>Jandakot</i> (P. Luff s.n. 4/7/1969)	Y		
95.	753 <i>Carex appressa</i> (Tall Sedge)			
96.	754 <i>Carex divisa</i> (Divided Sedge)	Y		
97.	755 <i>Carex fascicularis</i> (Tassel Sedge)			
98.	43241 <i>Carex thecata</i>			
99.	1162 <i>Cartonema philydroides</i>			
100.	18314 <i>Casuarina cunninghamiana</i> subsp. <i>cunninghamiana</i>	Y		
101.	13685 <i>Catapodium rigidum</i> (Rigid Fescue)	Y		
102.	258 <i>Cenchrus ciliaris</i> (Buffel Grass)	Y		
103.	6214 <i>Centella asiatica</i>			
104.	1125 <i>Centrolepis drummondiana</i>			
105.	2889 <i>Cerastium glomeratum</i> (Mouse Ear Chickweed)	Y		
106.	32462 <i>Ceratodon purpureus</i> subsp. <i>convolutus</i>			
107.	18156 <i>Chamaecytisus palmensis</i> (Tagasaste)	Y		
108.	<i>Chamelaucium</i> sp.			
109.	5498 <i>Chamelaucium uncinatum</i> (Geraldton Wax)			
110.	1513 <i>Chasmanthe floribunda</i> (African Cornflag)	Y		
111.	2490 <i>Chenopodium glaucum</i> (Glaucous Goosefoot)	Y		
112.	2491 <i>Chenopodium macrospermum</i>	Y		
113.	17833 <i>Chordifex microcodon</i>			
114.	<i>Chrysopogon melanorrhinus</i>			
115.	2929 <i>Clematis pubescens</i> (Common Clematis)			
116.	4550 <i>Comesperma calymega</i> (Blue-spike Milkwort)			
117.	15607 <i>Conospermum acerosum</i> subsp. <i>acerosum</i>			
118.	15516 <i>Conospermum canaliculatum</i> subsp. <i>canaliculatum</i>			
119.	1876 <i>Conospermum incurvum</i> (Plume Smokebush)			
120.	6347 <i>Conostephium minus</i> (Pink-tipped Pearl flower)			
121.	6348 <i>Conostephium pendulum</i> (Pearl Flower)			
122.	6349 <i>Conostephium preissii</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
123.	1418 <i>Conostylis aculeata</i> (Prickly Conostylis)			
124.	1423 <i>Conostylis aurea</i> (Golden Conostylis)			
125.	1425 <i>Conostylis bracteata</i>		P3	
126.	1436 <i>Conostylis juncea</i>			
127.	11597 <i>Conostylis setigera</i> subsp. <i>setigera</i>			
128.	7939 <i>Conyza bonariensis</i> (Flaxleaf Fleabane)	Y		
129.	20074 <i>Conyza sumatrensis</i>	Y		
130.	277 <i>Cortaderia selloana</i> (Pampas Grass)	Y		
131.	17104 <i>Corymbia calophylla</i> (Marri)			
132.	7945 <i>Cotula coronopifolia</i> (Waterbuttons)	Y		
133.	3136 <i>Crassula alata</i>	Y		
134.	3137 <i>Crassula colorata</i> (Dense Stonecrop)			
135.	3140 <i>Crassula glomerata</i>	Y		
136.	3146 <i>Crassula thunbergiana</i>	Y		
137.	15114 <i>Cyanicula gemmata</i>			
138.	283 <i>Cynodon dactylon</i> (Couch)	Y		
139.	18318 <i>Cyperus involucratus</i>	Y		
140.	816 <i>Cyperus tenuiflorus</i> (Scaly Sedge)	Y		
141.	10916 <i>Cyrtostylis huegelii</i>			
142.	7454 <i>Dampiera linearis</i> (Common Dampiera)			
143.	1218 <i>Dasyogon bromeliifolius</i> (Pineapple Bush)			
144.	6218 <i>Daucus glochidiatus</i> (Australian Carrot)			
145.	3805 <i>Daviesia decurrens</i> (Prickly Bitter-pea)			
146.	3807 <i>Daviesia divaricata</i> (Marno)			
147.	18560 <i>Daviesia divaricata</i> subsp. <i>divaricata</i>			
148.	11879 <i>Daviesia hakeoides</i> subsp. <i>hakeoides</i>			
149.	3824 <i>Daviesia nudiflora</i>			
150.	16585 <i>Daviesia nudiflora</i> subsp. <i>nudiflora</i>			
151.	3832 <i>Daviesia physodes</i>			
152.	<i>Daviesia</i> sp.			
153.	3845 <i>Daviesia triflora</i>			
154.	1259 <i>Dianella revoluta</i> (Blueberry Lily)			
155.	31597 <i>Dichondra micrantha</i>	Y		Y
156.	320 <i>Digitaria sanguinalis</i> (Crab Grass)	Y		
157.	4453 <i>Diplolaena angustifolia</i> (Yanchep Rose)			
158.	11049 <i>Diuris corymbosa</i>			
159.	12939 <i>Diuris magnifica</i>			
160.	1640 <i>Drakaea glyptodon</i> (King-in-his-carriage)			
161.	3095 <i>Drosera erythrorhiza</i> (Red Ink Sundew)			
162.	3106 <i>Drosera macrantha</i> (Bridal Rainbow)			
163.	14298 <i>Drosera macrantha</i> subsp. <i>macrantha</i>			
164.	3109 <i>Drosera menziesii</i> (Pink Rainbow)			
165.	11853 <i>Drosera menziesii</i> subsp. <i>menziesii</i>			
166.	13216 <i>Drosera menziesii</i> subsp. <i>penicillaris</i>			
167.	3116 <i>Drosera omissa</i> (Bright Sundew)			
168.	32351 <i>Eccremidium pulchellum</i>			
169.	11485 <i>Ehrharta brevifolia</i> var. <i>cuspidata</i>	Y		
170.	347 <i>Ehrharta calycina</i> (Perennial Veldt Grass)	Y		
171.	349 <i>Ehrharta longiflora</i> (Annual Veldt Grass)	Y		
172.	1643 <i>Elythranthera brunonis</i> (Purple Enamel Orchid)			
173.	6132 <i>Epilobium ciliatum</i>	Y		
174.	6133 <i>Epilobium hirtigerum</i> (Hairy Willow Herb)			
175.	14289 <i>Epilobium tetragonum</i> subsp. <i>tetragonum</i>	Y		
176.	376 <i>Eragrostis curvula</i> (African Lovegrass)	Y		
177.	14104 <i>Eremaea pauciflora</i> var. <i>pauciflora</i>			
178.	4333 <i>Erodium cicutarium</i> (Common Storksbill)	Y		
179.	15446 <i>Eryngium pinnatifidum</i> subsp. <i>pinnatifidum</i>			
180.	5659 <i>Eucalyptus gomphocephala</i> (Tuart, Duart)			
181.	5708 <i>Eucalyptus marginata</i> (Jarrah, Djara)			
182.	13547 <i>Eucalyptus marginata</i> subsp. <i>marginata</i> (Jarrah)			
183.	5763 <i>Eucalyptus rudis</i> (Flooded Gum, Kulurda)			
184.	5790 <i>Eucalyptus todtiana</i> (Coastal Blackbutt)			
185.	3872 <i>Euchilopsis linearis</i> (Swamp Pea)			
186.	4638 <i>Euphorbia peplus</i> (Petty Spurge)	Y		
187.	4648 <i>Euphorbia terracina</i> (Geraldton Carnation Weed)	Y		
188.	32369 <i>Fissidens tenellus</i>			
189.	11571 <i>Galeria pubescens</i> var. <i>pubescens</i>	Y		
190.	7976 <i>Galinsoga parviflora</i> (Potato Weed)	Y		
191.	20475 <i>Gastrolobium capitatum</i>			
192.	20483 <i>Gastrolobium linearifolium</i>			

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193.	20482 <i>Gastrolobium nervosum</i>			
194.	16311 <i>Gazania linearis</i>	Y		
195.	32380 <i>Gemmabryum pachythecum</i>			
196.	32381 <i>Gemmabryum preissianum</i>			
197.	4341 <i>Geranium solanderi</i> (Native Geranium)			
198.	1520 <i>Gladiolus caryophyllaceus</i> (Wild Gladiolus)	Y		
199.	<i>Gladiolus</i> sp.			
200.	33620 <i>Glischrocaryon angustifolium</i>			
201.	11051 <i>Gomphocarpus physocarpus</i>	Y		
202.	11083 <i>Gompholobium scabrum</i>			
203.	3957 <i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			
204.	6161 <i>Gonocarpus pithyoides</i>			
205.	1982 <i>Grevillea crithmifolia</i>			
206.	15839 <i>Grevillea preissii</i> subsp. <i>preissii</i>			
207.	12824 <i>Grevillea vestita</i> subsp. <i>vestita</i>			
208.	5011 <i>Guichenotia ledifolia</i>			
209.	1468 <i>Haemodorum laxum</i>			
210.	1470 <i>Haemodorum paniculatum</i> (Mardja)			
211.	2146 <i>Hakea costata</i> (Ribbed Hakea)			
212.	2175 <i>Hakea lissocarpha</i> (Honey Bush)			
213.	2197 <i>Hakea prostrata</i> (Harsh Hakea)			
214.	2214 <i>Hakea trifurcata</i> (Two-leaf Hakea)			
215.	3961 <i>Hardenbergia comptoniana</i> (Native Wisteria)			
216.	29594 <i>Helichrysum luteoalbum</i> (Jersey Cudweed)			
217.	8084 <i>Helminthotheca echioides</i>	Y		
218.	439 <i>Hemarthria uncinata</i> (Matgrass)			
219.	6836 <i>Hemiandra incana</i>			
220.	6839 <i>Hemiandra pungens</i> (Snakebush)			
221.	1293 <i>Hensmania turbinata</i>			
222.	443 <i>Heteropogon contortus</i> (Bunch Speargrass)			
223.	5112 <i>Hibbertia aurea</i>			
224.	5117 <i>Hibbertia cuneiformis</i> (Cutleaf Hibbertia)			
225.	5134 <i>Hibbertia huegelii</i>			
226.	5135 <i>Hibbertia hypericoides</i> (Yellow Buttercups)			
227.	5154 <i>Hibbertia perfoliata</i>			
228.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
229.	43280 <i>Hibbertia sericosepala</i>			
230.	5173 <i>Hibbertia subvaginata</i>			
231.	444 <i>Holcus lanatus</i> (Yorkshire Fog)	Y		
232.	6222 <i>Homalosciadium homalocarpum</i>			
233.	449 <i>Hordeum leporinum</i> (Barley Grass)	Y		
234.	3968 <i>Hovea trisperma</i> (Common Hovea)			
235.	5216 <i>Hybanthus calycinus</i> (Wild Violet)			
236.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)			
237.	5825 <i>Hypocalymma robustum</i> (Swan River Myrtle)			
238.	8086 <i>Hypochaeris glabra</i> (Smooth Catsear)	Y		
239.	20200 <i>Isolepis cernua</i> var. <i>setiformis</i>			
240.	917 <i>Isolepis marginata</i> (Coarse Club-rush)			
241.	921 <i>Isolepis producta</i>			
242.	2237 <i>Isopogon sphaerocephalus</i> (Drumstick Isopogon)			
243.	3992 <i>Isotropis cuneifolia</i> (Granny Bonnets)			
244.	4010 <i>Jacksonia floribunda</i> (Holly Pea)			
245.	4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)			
246.	4027 <i>Jacksonia sericea</i> (Waldjumi)		P4	
247.	4029 <i>Jacksonia sternbergiana</i> (Stinkwood, Kapur)			
248.	1188 <i>Juncus pallidus</i> (Pale Rush)			
249.	4037 <i>Kennedia coccinea</i> (Coral Vine)			
250.	4044 <i>Kennedia prostrata</i> (Scarlet Runner)			
251.	1370 <i>Lachenalia reflexa</i>	Y		
252.	20019 <i>Lachnagrostis filiformis</i>			
253.	8096 <i>Lactuca serriola</i> (Prickly Lettuce)	Y		
254.	18585 <i>Lagenophora huegelii</i>			
255.	467 <i>Lagurus ovatus</i> (Hare's Tail Grass)	Y		
256.	5038 <i>Lasiopetalum membranaceum</i>		P3	
257.	4052 <i>Latrobea tenella</i>			
258.	11911 <i>Laxmannia ramosa</i> subsp. <i>ramosa</i>			
259.	1309 <i>Laxmannia squarrosa</i>			
260.	7568 <i>Lechenaultia biloba</i> (Blue Leschenaultia)			
261.	7574 <i>Lechenaultia floribunda</i> (Free-flowering Leschenaultia)			
262.	7580 <i>Lechenaultia linarioides</i> (Yellow Leschenaultia)			

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263.	6880 <i>Leonotis leonurus</i> (Lion's Ear)	Y		
264.	937 <i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)			
265.	938 <i>Lepidosperma persecans</i>			
266.	944 <i>Lepidosperma scabrum</i>			
267.	15418 <i>Leptoceras menziesii</i>			
268.	2344 <i>Leptomeria empetriformis</i>			
269.	2350 <i>Leptomeria pauciflora</i> (Sparse-flowered Currant Bush)			
270.	19821 <i>Lessertia frutescens</i>	Y		
271.	6360 <i>Leucopogon australis</i> (Spiked Beard-heath)			
272.	6405 <i>Leucopogon insularis</i>			
273.	6425 <i>Leucopogon oxycedrus</i>			
274.	6434 <i>Leucopogon polymorphus</i>			
275.	6436 <i>Leucopogon propinquus</i>			
276.	<i>Leucopogon</i> sp.			
277.	19579 <i>Leucopogon</i> sp. Murdoch (M. Hislop 1037)			
278.	40803 <i>Leucopogon squarrosus</i> subsp. <i>squarrosus</i>			
279.	6489 <i>Limonium sinuatum</i> (Perennial Sea Lavender)	Y		
280.	36160 <i>Liparophyllum capitatum</i>			
281.	7408 <i>Lobelia tenuior</i> (Slender Lobelia)			
282.	36860 <i>Lobelia tenuior</i> subsp. <i>dictyosperma</i>			
283.	475 <i>Lolium multiflorum</i> (Italian Ryegrass)	Y		
284.	1232 <i>Lomandra micrantha</i> (Small-flower Mat-rush)			
285.	1234 <i>Lomandra nigricans</i>			
286.	1239 <i>Lomandra preissii</i>			
287.	1246 <i>Lomandra suaveolens</i>			
288.	10900 <i>Lycopersicon esculentum</i>	Y		
289.	6456 <i>Lysinema ciliatum</i> (Curry Flower)			
290.	34736 <i>Lysinema pentapetalum</i>			
291.	5281 <i>Lythrum hyssopifolia</i> (Lesser Loosestrife)	Y		
292.	2838 <i>Macarthuria apetala</i>			
293.	2839 <i>Macarthuria australis</i>			
294.	25819 <i>Marianthus paralius</i>		T	
295.	4079 <i>Medicago polymorpha</i> (Burr Medic)	Y		
296.	34676 <i>Meionectes brownii</i> (Swamp Raspwort)			
297.	13271 <i>Melaleuca huegelii</i> subsp. <i>huegelii</i>			
298.	5921 <i>Melaleuca incana</i> (Grey Honeymyrtle)			
299.	5952 <i>Melaleuca preissiana</i> (Moonah)			
300.	5959 <i>Melaleuca raphiophylla</i> (Swamp Paperbark)			
301.	5964 <i>Melaleuca seriata</i>			
302.	18598 <i>Melaleuca systema</i>			
303.	5978 <i>Melaleuca teretifolia</i> (Banbar)			
304.	5983 <i>Melaleuca trichophylla</i>			
305.	4516 <i>Melia azedarach</i> (White Cedar)			
306.	4085 <i>Melilotus indicus</i>	Y		
307.	953 <i>Mesomelaena graciliceps</i>			
308.	955 <i>Mesomelaena pseudostygia</i>			
309.	485 <i>Microlaena stipoides</i> (Weeping Grass)			
310.	15419 <i>Microtis media</i> subsp. <i>media</i>			
311.	8105 <i>Millotia myosotidifolia</i>			
312.	4100 <i>Mirbelia spinosa</i>			
313.	29418 <i>Monoculus monstrosus</i>	Y		
314.	19179 <i>Moraea flaccida</i> (One-leaf Cape Tulip)	Y		
315.	2415 <i>Muehlenbeckia polybotrya</i>			
316.	7289 <i>Myoporum caprarioides</i> (Slender Myoporum)			
317.	7291 <i>Myoporum insulare</i> (Blueberry Tree, boobialla)			
318.	6199 <i>Myriophyllum tillaeoides</i>			
319.	19161 <i>Nemesia strumosa</i>	Y		
320.	2401 <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)			
321.	16390 <i>Oenothera drummondii</i> subsp. <i>drummondii</i>	Y		
322.	6503 <i>Olea europaea</i> (Olive)	Y		
323.	8149 <i>Olearia rudis</i> (Rough Daisybush)			
324.	18255 <i>Opercularia vaginata</i> (Dog Weed)			
325.	7122 <i>Orobancha minor</i> (Lesser Broomrape)	Y		
326.	11749 <i>Orthrosanthus laxus</i> var. <i>laxus</i> (Morning Iris)			
327.	532 <i>Paspalum urvillei</i> (Vasey Grass)	Y		
328.	1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)			
329.	30472 <i>Patersonia occidentalis</i> var. <i>occidentalis</i>			
330.	4343 <i>Pelargonium capitatum</i> (Rose Pelargonium)	Y		
331.	40423 <i>Pentameris airoides</i> (False Hairgrass)	Y		
332.	16477 <i>Pericalymma ellipticum</i> var. <i>ellipticum</i>			

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333.	13911 <i>Persicaria decipiens</i>			
334.	16984 <i>Persicaria lapathifolia</i>	Y		
335.	2273 <i>Persoonia saccata</i> (Snottygobble)			
336.	20368 <i>Petrophile axillaris</i>			
337.	2286 <i>Petrophile brevifolia</i>			
338.	2309 <i>Petrophile serruriae</i>			
339.	18529 <i>Philothea spicata</i> (Pepper and Salt)			
340.	1478 <i>Phlebocarya ciliata</i>			
341.	6734 <i>Phyla nodiflora</i> var. <i>nodiflora</i>	Y		
342.	4675 <i>Phyllanthus calycinus</i> (False Boronia)			
343.	17794 <i>Phyllanthus tenellus</i>	Y		
344.	2793 <i>Phytolacca octandra</i> (Red Ink Plant)	Y		
345.	5232 <i>Pimelea argentea</i> (Silvery Leaved Pimelea)			
346.	5237 <i>Pimelea calcicola</i>		P3	
347.	5244 <i>Pimelea floribunda</i>			
348.	5254 <i>Pimelea leucantha</i>			
349.	5268 <i>Pimelea sulphurea</i> (Yellow Banjine)			
350.	18352 <i>Pithocarpa pulchella</i> var. <i>melanostigma</i>			
351.	18353 <i>Pithocarpa pulchella</i> var. <i>pulchella</i>			
352.	19745 <i>Pittosporum ligustrifolium</i>			
353.	<i>Pittosporum multiflorum</i>			
354.	7304 <i>Plantago major</i> (Greater Plantain)	Y		
355.	571 <i>Poa annua</i> (Winter Grass)	Y		
356.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
357.	8179 <i>Podolepis nutans</i> (Nodding Podolepis)			
358.	8183 <i>Podotheca chrysantha</i> (Yellow Podotheca)			
359.	8184 <i>Podotheca gnaphalioides</i> (Golden Long-heads)			
360.	582 <i>Polypogon monspeliensis</i> (Annual Beardgrass)	Y		
361.	4689 <i>Poranthera ericoides</i> (Heath Poranthera)			
362.	4691 <i>Poranthera microphylla</i> (Small Poranthera)			
363.	1672 <i>Prasophyllum fimbria</i> (Fringed Leek Orchid)			
364.	1676 <i>Prasophyllum hians</i> (Yawning Leek Orchid)			
365.	41651 <i>Pteridium esculentum</i> subsp. <i>esculentum</i>			
366.	<i>Pterostylis</i> aff. <i>nana</i>			
367.	2718 <i>Ptilotus drummondii</i> (Narrowleaf Mulla Mulla)			
368.	11260 <i>Ptilotus drummondii</i> var. <i>drummondii</i> (Pussytail)			
369.	2742 <i>Ptilotus manglesii</i> (Pom Poms, Mulamula)			
370.	15856 <i>Ptilotus sericostachyus</i> subsp. <i>sericostachyus</i>			
371.	4181 <i>Pultenaea reticulata</i>			
372.	16367 <i>Pyrorchis nigricans</i> (Red beaks, Elephants ears)			
373.	32480 <i>Racopilum cuspidigerum</i> var. <i>convolutaceum</i>			
374.	31537 <i>Ranunculus sceleratus</i>	Y		Y
375.	3061 <i>Raphanus raphanistrum</i> (Wild Radish)	Y		
376.	6012 <i>Regelia ciliata</i>			
377.	6014 <i>Regelia inops</i>			
378.	18547 <i>Rhadinothamnus anceps</i>			
379.	4703 <i>Ricinocarpos tuberculatus</i>			
380.	19942 <i>Ricinocarpos undulatus</i>			
381.	1556 <i>Romulea rosea</i> (Guildford Grass)	Y		
382.	44608 <i>Rosulabryum billardieri</i>			
383.	40426 <i>Rytidosperma occidentale</i>			
384.	2906 <i>Sagina apetala</i> (Annual Pearlwort)	Y		
385.	7603 <i>Scaevola canescens</i> (Grey Scaevola)			
386.	12585 <i>Scaevola repens</i>			
387.	13181 <i>Scaevola repens</i> var. <i>angustifolia</i>			
388.	13152 <i>Scaevola thesioides</i> subsp. <i>thesioides</i>			
389.	11027 <i>Schinus terebinthifolius</i>	Y		
390.	969 <i>Schoenoplectus validus</i> (Lake Club-rush)			
391.	984 <i>Schoenus curvifolius</i>			
392.	992 <i>Schoenus grandiflorus</i> (Large Flowered Bogrush)			
393.	1016 <i>Schoenus subbarbatus</i> (Bearded Bog-rush)			
394.	1018 <i>Schoenus subfascicularis</i>			
395.	8220 <i>Senecio vulgaris</i> (Common Groundsel)	Y		
396.	2909 <i>Silene gallica</i> (French Catchfly)	Y		
397.	8225 <i>Siloxerus humifusus</i> (Procumbent Siloxerus)			
398.	<i>Solanum lycopersicum</i>			
399.	7022 <i>Solanum nigrum</i> (Black Berry Nightshade)	Y		
400.	<i>Solanum physalifolium</i> var. <i>nitidibaccatum</i>			
401.	7037 <i>Solanum symonii</i>			
402.	8231 <i>Sonchus oleraceus</i> (Common Sowthistle)	Y		

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403.	1312 <i>Sowerbaea laxiflora</i> (Purple Tassels)			
404.	9069 <i>Stackhousia huegelii</i>			
405.	2918 <i>Stellaria media</i> (Chickweed)	Y		
406.	15066 <i>Stenanthemum notiale</i> subsp. <i>chamelum</i>			
407.	19403 <i>Stenopetalum gracile</i>			
408.	2316 <i>Stirlingia latifolia</i> (Blueboy)			
409.	7679 <i>Stylidium adpressum</i> (Trigger-on-stilts)			
410.	25831 <i>Stylidium araeophyllum</i> (Stilt Walker)			
411.	7693 <i>Stylidium brunonianum</i> (Pink Fountain Triggerplant)			
412.	7710 <i>Stylidium cygnorum</i>			
413.	11808 <i>Stylidium diuroides</i> subsp. <i>diuroides</i>			
414.	25829 <i>Stylidium neurophyllum</i> (Coastal Plain Triggerplant)			
415.	25800 <i>Stylidium paludicola</i>		P3	
416.	7774 <i>Stylidium piliferum</i> (Common Butterfly Triggerplant)			
417.	15532 <i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>			
418.	32437 <i>Syntrichia antarctica</i>			
419.	32438 <i>Syntrichia pagorum</i>			
420.	45613 <i>Taraxacum khatoonae</i>	Y		
421.	4256 <i>Templetonia retusa</i> (Cockies Tongues)			
422.	2791 <i>Tersonia cyathiflora</i> (Button Creeper)			
423.	2820 <i>Tetragonia decumbens</i> (Sea Spinach)	Y		
424.	40680 <i>Tetragonia tetragonoides</i> (New Zealand Spinach)			
425.	20649 <i>Tetrapanax papyrifer</i>	Y		Y
426.	1036 <i>Tetradia octandra</i>			
427.	35581 <i>Tetradia</i> sp. <i>Chandala</i> (G.J. Keighery 17055)		P2	
428.	4535 <i>Tetradlea hirsuta</i> (Black Eyed Susan)			
429.	1702 <i>Thelymitra campanulata</i> (Shirt Orchid)			
430.	1708 <i>Thelymitra fuscolutea</i> (Chestnut Sun Orchid)			
431.	1717 <i>Thelymitra variegata</i> (Queen of Sheba)		P2	
432.	5105 <i>Thomasia triphylla</i>			
433.	6280 <i>Trachymene pilosa</i> (Native Parsnip)			
434.	32450 <i>Trichostomum eckelianum</i>			
435.	4291 <i>Trifolium arvense</i> (Hare's Foot Clover)	Y		
436.	4298 <i>Trifolium hirtum</i> (Rose Clover)	Y		
437.	14738 <i>Trifolium resupinatum</i> var. <i>resupinatum</i>	Y		
438.	11665 <i>Trymalium ledifolium</i> var. <i>ledifolium</i>			
439.	8255 <i>Ursinia anthemoides</i> (Ursinia)	Y		
440.	7125 <i>Utricularia australis</i>			
441.	7131 <i>Utricularia dichotoma</i> (Fairy Aprons)			
442.	12493 <i>Utricularia gibba</i>			
443.	7158 <i>Utricularia volubilis</i> (Twining Bladderwort)			
444.	8257 <i>Vellereophyton dealbatum</i> (White Cudweed)	Y		
445.	6077 <i>Verticordia drummondii</i> (Drummond's Featherflower)			
446.	6101 <i>Verticordia nitens</i> (Morrison Featherflower, Kodjeningara)			
447.	6103 <i>Verticordia ovalifolia</i>			
448.	4322 <i>Vicia sativa</i> (Common Vetch)	Y		
449.	11474 <i>Vicia sativa</i> subsp. <i>nigra</i>	Y		
450.	11137 <i>Vulpia fasciculata</i>	Y		
451.	7384 <i>Wahlenbergia capensis</i> (Cape Bluebell)	Y		
452.	7386 <i>Wahlenbergia gracilentia</i> (Annual Bluebell)			
453.	7388 <i>Wahlenbergia multicaulis</i>			
454.	<i>Wahlenbergia</i> sp.			
455.	8282 <i>Waitzia suaveolens</i> (Fragrant Waitzia)			
456.	17910 <i>Washingtonia filifera</i>	Y		
457.	1401 <i>Wurmbea pygmaea</i>			
458.	1256 <i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
459.	6289 <i>Xanthosia huegelii</i>			
460.	19938 <i>Xerochrysum bracteatum</i>			
461.	2331 <i>Xylomelum occidentale</i> (Woody Pear, Djandin)			
462.	36218 <i>Zygodon menziesii</i>			

Conservation Codes

T - Rare or likely to become extinct
X - Presumed extinct
IA - Protected under international agreement
S - Other specially protected fauna
1 - Priority 1
2 - Priority 2
3 - Priority 3
4 - Priority 4
5 - Priority 5

¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholly contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 14/04/16 14:54:05

[Summary](#)

[Details](#)

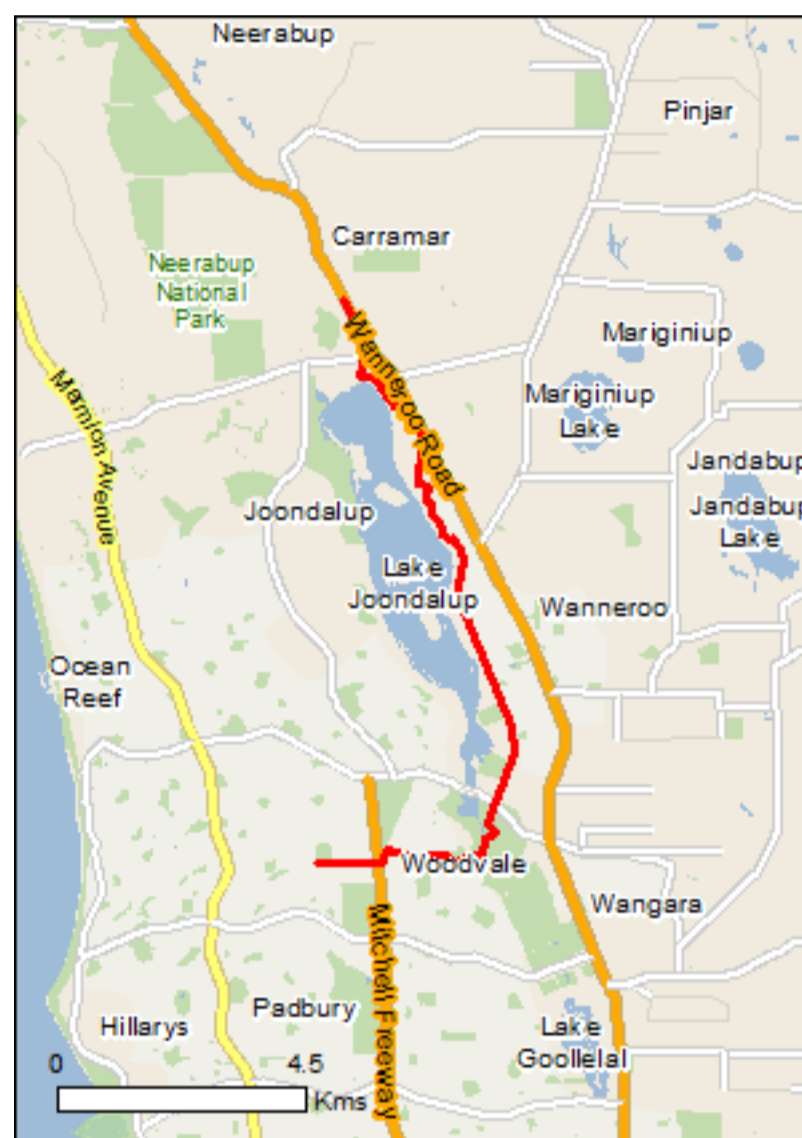
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

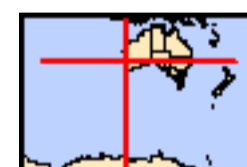
[Acknowledgements](#)



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

[Coordinates](#)

Buffer: 0.02Km



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	11
Listed Migratory Species:	9

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	14
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Commonwealth Reserves Marine:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves:	3
Regional Forest Agreements:	None
Invasive Species:	41
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calyptorhynchus latirostris Carnaby's Black-Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat likely to occur within area
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
Mammals		
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Anigozanthos viridis subsp. terraspectans Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat may occur within area
Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat likely to occur within area
Darwinia foetida Muceha Bell [83190]	Critically Endangered	Species or species habitat may occur within area
Diuris micrantha Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area
Diuris purdiei Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat may occur within area
Drakaea elastica Glossy-leafed Hammer-orchid, Praying Virgin [16753]	Endangered	Species or species habitat likely to occur within area
Drakaea micrantha Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat may occur within area

Listed Migratory Species		[Resource Information]
Name	Threatened	Type of Presence
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		

Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Migratory Wetlands Species		
Ardea alba Great Egret, White Egret [59541]		Species or species habitat known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Species or species habitat known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species

Name	Threatened	Type of Presence
Himantopus himantopus Black-winged Stilt [870]		habitat known to occur within area Species or species habitat known to occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area
Recurvirostra novaehollandiae Red-necked Avocet [871]		Species or species habitat known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Thinornis rubricollis Hooded Plover [59510]		Species or species habitat may occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Lake Joondalup	WA
Unnamed WA21176	WA
Woodvale Nature Reserve	WA

Invasive Species	[Resource Information]
Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.	

Name	Status	Type of Presence
Birds		
Acridotheres tristis Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Carduelis carduelis European Goldfinch [403]		Species or species

Name	Status	Type of Presence
Columba livia		habitat likely to occur within area
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Passer domesticus		
House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus		
Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia chinensis		
Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Streptopelia senegalensis		
Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Sturnus vulgaris		
Common Starling [389]		Species or species habitat likely to occur within area
Mammals		
Bos taurus		
Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris		
Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus		
Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Funambulus pennantii		
Northern Palm Squirrel, Five-striped Palm Squirrel [129]		Species or species habitat likely to occur within area
Mus musculus		
House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus		
Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus norvegicus		
Brown Rat, Norway Rat [83]		Species or species habitat likely to occur within area
Rattus rattus		
Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Vulpes vulpes		
Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Anredera cordifolia		
Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]		Species or species habitat likely to occur within area
Asparagus aethiopicus		
Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Asparagus declinatus Bridal Veil, Bridal Veil Creeper, Pale Berry Asparagus Fern, Asparagus Fern, South African Creeper [66908]		Species or species habitat likely to occur within area
Asparagus plumosus Climbing Asparagus-fern [48993]		Species or species habitat likely to occur within area
Brachiaria mutica Para Grass [5879]		Species or species habitat may occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		Species or species habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Opuntia spp. Prickly Pears [82753]		Species or species habitat likely to occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Protasparagus densiflorus Asparagus Fern, Plume Asparagus [5015]		Species or species habitat likely to occur within area
Protasparagus plumosus Climbing Asparagus-fern, Ferny Asparagus [11747]		Species or species habitat likely to occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Tamarix aphylla Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]		Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat likely to occur within area

Nationally Important Wetlands	[Resource Information]
Name	State
Joondalup Lake	WA

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

-31.786693 115.771205,-31.786693 115.781848,-31.784796 115.782449,-31.785817 115.786912,-31.785525 115.79232,-31.786984 115.793264,-31.785671 115.79601,-31.785598 115.798242,-31.783336 115.798414,-31.782607 115.800216,-31.781002 115.798929,-31.771443 115.80322,-31.767868 115.802619,-31.75028 115.794036,-31.748528 115.794208,-31.746922 115.794551,-31.745024 115.795066,-31.743638 115.794637,-31.741813 115.793436,-31.741959 115.792835,-31.741229 115.791719,-31.740499 115.791633,-31.739623 115.791204,-31.738674 115.790431,-31.738163 115.789916,-31.736849 115.790002,-31.736703 115.788801,-31.736265 115.789058,-31.734805 115.789401,-31.734075 115.787857,-31.73298 115.787685,-31.732615 115.787857,-31.728819 115.788715,-31.724293 115.78614,-31.723636 115.783565,-31.719474 115.780303,-31.719547 115.778243,-31.715459 115.779273,-31.708814 115.775325,-31.708814 115.775325

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Parks and Wildlife Commission NT, Northern Territory Government](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
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- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
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- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.

APPENDIX G

Fauna Database Search Results