

APPENDIX A

Definition of Declared Rare / Priority / Threatened Flora Species

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

CONSERVATION CODE	DESCRIPTION
X	Presumed Extinct Flora (Declared Rare Flora – Extinct) “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>).”
T	Threatened Flora (Declared Rare Flora – Extant) “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>).” “Threatened Flora (Schedule 1) are further ranked by the Department according to their level of threat using IUCN Red List criteria: CR: Critically Endangered – considered to be facing an extremely high risk of extinction in the wild; EN: Endangered – considered to be facing a very high risk of extinction in the wild; VU: Vulnerable – considered to be facing a high risk of extinction in the wild.”
P1	Priority One: Poorly-known taxa “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.”
P2	Priority Two: Poorly-known taxa “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.”
P3	Priority Three: Poorly-known taxa “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 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.
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.
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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)
 - 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
 - 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)
 - 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
 - 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.
- 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

- (i) 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 or;
- (ii) 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;
- (iii) 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.

- (a) 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.
- (b) 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.
- (c) 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 (>100m).
- **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

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 E

Flora Database Search Results



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.

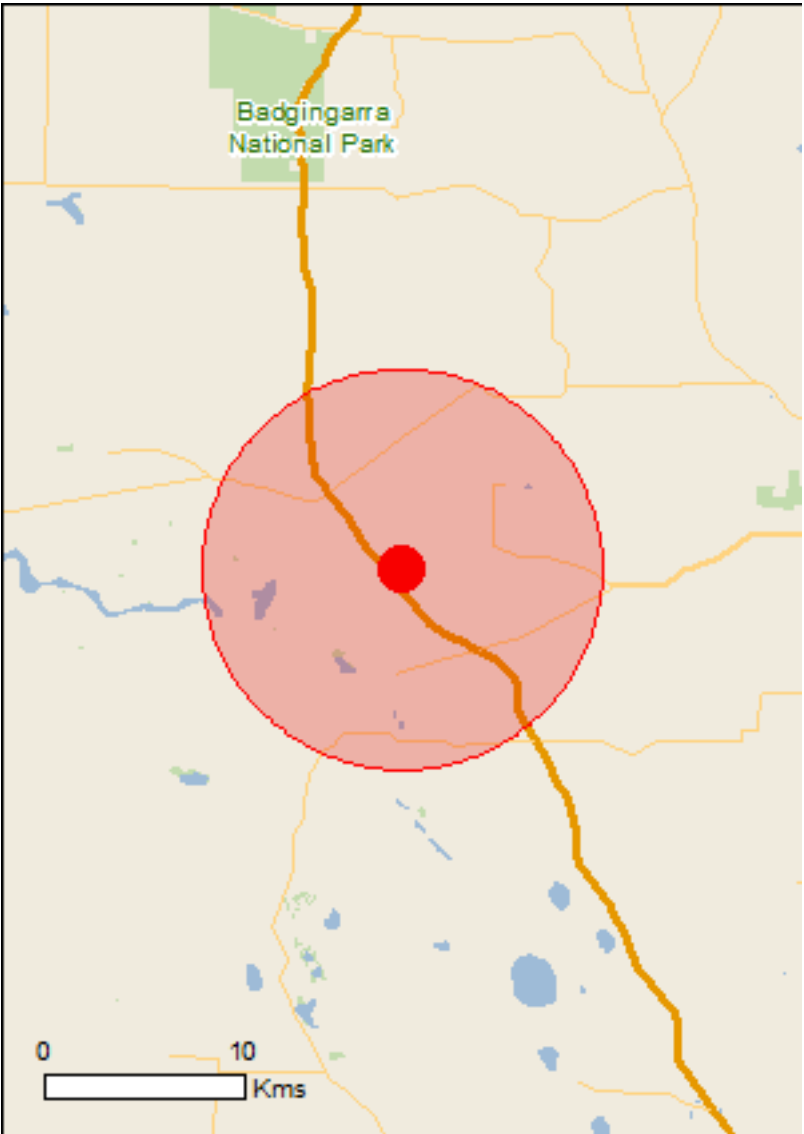
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[Extra Information](#)
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- [Acknowledgements](#)



This map may contain data which are
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[Coordinates](#)

Buffer: 10.0Km



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:	1
Listed Threatened Species:	26
Listed Migratory Species:	6

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:	1
Listed Marine Species:	12
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:	5
Regional Forest Agreements:	None
Invasive Species:	18
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

[Resource Information]

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.

Name	Status	Type of Presence
Banksia Woodlands of the Swan Coastal Plain	Endangered	Community likely to occur within area

Listed Threatened Species

[Resource Information]

Name	Status	Type of Presence
Birds		

Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
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Calyptorhynchus latirostris Carnaby's Black-Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
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Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
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Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
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Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
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Mammals

Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area
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Plants

Acacia forrestiana Forest's Wattle [17235]	Vulnerable	Species or species habitat likely to occur within area
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Andersonia gracilis Slender Andersonia [14470]	Endangered	Species or species habitat known to occur within area
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Anigozanthos viridis subsp. terraspectans Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat likely to occur within area
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Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat may occur within area
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Name	Status	Type of Presence
Chamelaucium sp. Gingin (N.G.Marchant s.n., 4/11/1988) Gingin Wax [64649]	Endangered	Species or species habitat may occur within area
Drakaea elastica Glossy-leaved Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat likely to occur within area
Eleocharis keigheryi Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat likely to occur within area
Eucalyptus absita Badgingarra Box [24260]	Endangered	Species or species habitat may occur within area
Eucalyptus balanites Cadda Road Mallee, Cadda Mallee [24264]	Endangered	Species or species habitat likely to occur within area
Eucalyptus dolorosa Dandaragan Mallee, Mount Misery Mallee [56709]	Endangered	Species or species habitat likely to occur within area
Eucalyptus impensa Eneabba Mallee [56711]	Endangered	Species or species habitat may occur within area
Eucalyptus leprophloia Scaly Butt Mallee, Scaly-butt Mallee [56712]	Endangered	Species or species habitat may occur within area
Grevillea calliantha Foote's Grevillea, Cataby Grevillea, Black Magic Grevillea [56339]	Endangered	Species or species habitat likely to occur within area
Hakea megalosperma Lesueur Hakea [10505]	Vulnerable	Species or species habitat likely to occur within area
Hemiandra gardneri Red Snakebush [7945]	Endangered	Species or species habitat may occur within area
Leucopogon obtectus Hidden Beard-heath [19614]	Endangered	Species or species habitat may occur within area
Macarthuria keigheryi Keighery's Macarthuria [64930]	Endangered	Species or species habitat likely to occur within area
Paracaleana dixonii Sandplain Duck Orchid [86882]	Endangered	Species or species habitat may occur within area
Thelymitra dedmaniarum Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat likely to occur within area
Thelymitra stellata Star Sun-orchid [7060]	Endangered	Species or species habitat may occur within area

Listed Migratory Species		[Resource Information]
* 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

Name	Threatened	Type of Presence
Migratory Terrestrial Species		
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Migratory Wetlands Species		
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may 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 likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Heritage Places		[Resource Information]
Name	State	Status
Natural		
Lancelin Defence Training Area	WA	Listed place
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 likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely 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
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
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 likely to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Eneminga	WA
Minyulo	WA
Unnamed WA27993	WA
Unnamed WA40916	WA
Unnamed WA41986	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		
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		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		
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
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Oryctolagus cuniculus Rabbit, European Rabbit [128]		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		
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		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
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
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

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.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

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

-30.70521 115.50697

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](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-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](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- [-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.

Taxon	Cons_Code	Latitude	Longitude	Date
Acacia plicata	3	-30.75	115.55	15/09/1988
Acacia plicata	3	-30.7333	115.5333	10/08/1969
Acacia plicata	3	-30.7667	115.55	2/10/1972
Acacia plicata	3	-30.7667	115.55	14/03/1972
Acacia plicata	3	-30.7333	115.5333	15/11/1969
Acacia plicata	3	-30.7667	115.55	28/08/1982
Acacia plicata	3	-30.7667	115.55	15/08/1976
Acacia plicata	3	-30.7667	115.55	21/10/1970
Acacia plicata	3	-30.7667	115.55	28/11/1982
Acacia plicata	3	-30.7667	115.55	21/10/1970
Acacia plicata	3	-30.7481	115.5578	29/11/2002
Acacia plicata	3	-30.7667	115.55	1/12/1986
Acacia plicata	3	-30.746	115.5627	21/08/1990
Andersonia gracilis	T	-30.7055	115.4112	26/10/2011
Anigozanthos humilis subsp. Badgingarra (S.D. Hopper 7114)	2	-30.6667	115.55	26/09/1991
Anigozanthos humilis subsp. Badgingarra (S.D. Hopper 7114)	2	-30.7333	115.6	20/09/1988
Anigozanthos humilis subsp. chrysanthus	4	-30.7	115.6	11/09/1988
Anigozanthos viridis subsp. terraspectans	T	-30.767	115.4354	9/10/2012
Anigozanthos viridis subsp. terraspectans	T	-30.6894	115.4166	24/10/2011
Anigozanthos viridis subsp. terraspectans	T	-30.7333	115.4333	22/10/1980
Anigozanthos viridis subsp. terraspectans	T	-30.6667	115.4333	13/11/1979
Arnocrinum gracillimum	2	-30.6448	115.465	31/10/2013
Arnocrinum gracillimum	2	-30.6816	115.4589	17/11/2004
Asterolasia drummondii	4	-30.75	115.55	28/06/1988
Asterolasia drummondii	4	-30.75	115.5167	10/07/1988
Babingtonia delicata	1	-30.6914	115.5497	16/11/1988
Babingtonia delicata	1	-30.6833	115.4833	21/10/1990
Babingtonia urbana	3	-30.6783	115.4183	6/02/2014
Beaufortia bicolor	3	-30.7167	115.4	16/12/1976
Beaufortia bicolor	3	-30.7014	115.5008	14/12/1982
Beaufortia eriocephala	3	-30.7833	115.5667	24/11/1993
Beaufortia eriocephala	3	-30.7667	115.5667	10/10/1995
Chamelaucium sp. Cataby (G.J. Keighery 11009)	T	-30.75	115.5833 //	
Chamelaucium sp. Cataby (G.J. Keighery 11009)	T	-30.75	115.5833	10/07/1988
Chordifex chaunocoleus	4	-30.6787	115.4218	24/09/2012
Chordifex reseminans	2	-30.698	115.4831	23/01/2002
Chordifex reseminans	2	-30.7075	115.454	23/01/2002
Chordifex reseminans	2	-30.6912	115.4942 //	
Chordifex reseminans	2	-30.6993	115.4816	30/10/2008
Chordifex reseminans	2	-30.7088	115.4525	30/10/2008
Conostephium magnum	4	-30.75	115.5497	3/09/1996
Conostephium magnum	4	-30.6382	115.4615	27/11/1996
Conostephium magnum	4	-30.7683	115.4942	20/08/2011
Conostephium magnum	4	-30.6885	115.416	24/10/2011
Conostephium magnum	4	-30.6667	115.4667	12/06/1988

Taxon	Cons_Code	Latitude	Longitude	Date
Conostephium magnum	4	-30.6615	115.4651	8/08/2005
Dampiera tephrea	2	-30.7715	115.5463	9/09/2003
Dampiera tephrea	2	-30.75	115.55	19/08/1991
Dampiera tephrea	2	-30.6654	115.5515	13/08/1991
Desmocladius elongatus	4	-30.6417	115.5083	2/07/1992
Desmocladius microcarpus	2	-30.7333	115.5333	/09/1990
Desmocladius nodatus	3	-30.7833	115.4667	/03/1966
Eleocharis keigheryi	T	-30.744	115.5631	22/11/1996
Eleocharis keigheryi	T	-30.7769	115.55	28/08/1982
Eucalyptus abdita	2	-30.6572	115.4969	12/10/2007
Eucalyptus macrocarpa subsp. elachantha	4	-30.7667	115.5833	11/08/1983
Eucalyptus macrocarpa subsp. elachantha	4	-30.7689	115.5728	5/12/1982
Eucalyptus macrocarpa subsp. elachantha	4	-30.7667	115.55	13/11/1979
Eucalyptus macrocarpa subsp. elachantha	4	-30.7333	115.5333	2/09/1970
Eucalyptus macrocarpa subsp. elachantha	4	-30.7667	115.5833	11/09/1983
Eucalyptus macrocarpa subsp. elachantha	4	-30.75	115.5333	7/10/1986
Eucalyptus macrocarpa subsp. elachantha	4	-30.7667	115.55	18/10/1978
Eucalyptus macrocarpa subsp. elachantha	4	-30.7667	115.5833	11/08/1983
Eucalyptus macrocarpa subsp. elachantha	4	-30.7667	115.55	5/06/1984
Eucalyptus macrocarpa subsp. elachantha	4	-30.7667	115.5833	11/08/1983
Eucalyptus macrocarpa subsp. elachantha	4	-30.75	115.5833	23/01/1984
Eucalyptus macrocarpa subsp. elachantha	4	-30.6722	115.4417	13/08/2003
Eucalyptus macrocarpa subsp. elachantha	4	-30.7711	115.5642	6/10/1997
Eucalyptus macrocarpa subsp. elachantha	4	-30.7728	115.5725	20/11/2000
Eucalyptus macrocarpa subsp. elachantha	4	-30.7699	115.5659	14/09/1997
Grevillea calliantha	T	-30.7167	115.6	23/05/1988
Grevillea calliantha	T	-30.6833	115.5667	23/05/1988
Grevillea calliantha	T	-30.7167	115.6	23/05/1988
Grevillea calliantha	T	-30.7167	115.5667	30/04/1992
Grevillea calliantha	T	-30.7167	115.6	23/05/1988
Grevillea calliantha	T	-30.7015	115.575	12/08/1988
Grevillea calliantha	T	-30.7015	115.575	12/08/1988
Grevillea calliantha	T	-30.6937	115.572	12/08/1988
Grevillea calliantha	T	-30.7167	115.6	23/05/1988
Grevillea calliantha	T	-30.7185	115.5856	6/11/1995
Grevillea calliantha	T	-30.684	115.5462	12/08/1988
Grevillea calliantha	T	-30.6847	115.5458	27/09/1989
Grevillea calliantha	T	-30.7333	115.5833	20/09/1988
Grevillea calliantha	T	-30.6833	115.5333	17/10/1988
Grevillea calliantha	T	-30.6824	115.5717	5/09/2007
Grevillea drummondii	4	-30.75	115.5167	10/07/1988
Grevillea drummondii	4	-30.7567	115.595	6/06/1986
Grevillea drummondii	4	-30.7667	115.5667	6/06/1986
Grevillea florida	3	-30.7333	115.5333	27/10/1993
Grevillea saccata	4	-30.6778	115.5497	25/08/1979
Grevillea saccata	4	-30.6667	115.5333	27/08/1992
Grevillea saccata	4	-30.6667	115.45	1/08/1991
Grevillea synapheae subsp. minyulo	1	-30.7167	115.55	11/09/1988
Grevillea synapheae subsp. minyulo	1	-30.7333	115.5333	27/10/1993

Taxon	Cons_Code	Latitude	Longitude	Date
Grevillea synapheae subsp. minyulo	1	-30.6861	115.5476	3/12/2007
Grevillea synapheae subsp. minyulo	1	-30.6735	115.5492	8/10/2002
Grevillea synapheae subsp. minyulo	1	-30.6833	115.5333	13/08/1991
Grevillea synapheae subsp. minyulo	1	-30.7333	115.4833	2/09/1994
Grevillea synapheae subsp. minyulo	1	-30.7333	115.5333	16/09/1993
Grevillea synapheae subsp. minyulo	1	-30.6833	115.5333	20/09/1990
Grevillea synapheae subsp. minyulo	1	-30.6833	115.5333	20/09/1990
Grevillea synapheae subsp. minyulo	1	-30.6833	115.5333	20/09/1990
Grevillea synapheae subsp. minyulo	1	-30.6833	115.5333	20/09/1990
Grevillea synapheae subsp. minyulo	1	-30.6833	115.55	5/08/1992
Grevillea thyrsoides subsp. thyrsoides	3	-30.7541	115.5562	8/09/2003
Grevillea thyrsoides subsp. thyrsoides	3	-30.75	115.5	10/02/1988
Grevillea thyrsoides subsp. thyrsoides	3	-30.7719	115.5656	12/02/2002
Guichenotia alba	3	-30.7833	115.5667	3/08/1976
Guichenotia alba	3	-30.75	115.5	10/07/1988
Guichenotia alba	3	-30.75	115.5	10/07/1988
Guichenotia alba	3	-30.6667	115.45	1/08/1991
Hakea longiflora	3	-30.7515	115.5574	13/12/2005
Hakea megalosperma	T	-30.6441	115.5242	4/08/2011
Hakea megalosperma	T	-30.6333	115.5333	30/04/1991
Hakea megalosperma	T	-30.65	115.5167	30/04/1991
Hakea megalosperma	T	-30.6667	115.5333	22/04/1982
Hakea megalosperma	T	-30.6456	115.5214	1/11/2002
Hakea megalosperma	T	-30.6438	115.5239	1/02/2008
Hypocalymma sp. Cataby (G.J. Keighery 5151)	2	-30.7502	115.5577	9/09/2003
Hypocalymma sp. Cataby (G.J. Keighery 5151)	2	-30.75	115.55	1/08/1991
Hypocalymma sp. Cataby (G.J. Keighery 5151)	2	-30.75	115.55	1/08/1991
Hypocalymma sp. Cataby (G.J. Keighery 5151)	2	-30.7417	115.55	28/08/1982
Hypocalymma tetrapterum	3	-30.75	115.55	1/08/1991
Hypocalymma tetrapterum	3	-30.765	115.5467	12/08/1992
Hypocalymma tetrapterum	3	-30.75	115.5567	19/08/1992
Hypocalymma tetrapterum	3	-30.75	115.55	1/08/1991
Hypocalymma tetrapterum	3	-30.7333	115.5333	29/08/1938
Hypocalymma tetrapterum	3	-30.7333	115.5333	29/08/1938
Hypocalymma tetrapterum	3	-30.7333	115.5333	29/08/1938
Hypocalymma tetrapterum	3	-30.7417	115.4564	26/09/1991
Hypocalymma tetrapterum	3	-30.75	115.55	15/09/1988
Hypocalymma tetrapterum	3	-30.7333	115.5333	29/08/1938
Hypocalymma tetrapterum	3	-30.6735	115.5492	8/10/2002
Hypocalymma tetrapterum	3	-30.7333	115.5333	29/08/1938
Hypocalymma tetrapterum	3	-30.75	115.5833	28/06/1988
Hypolaena robusta	4	-30.6842	115.4817	8/08/1995
Hypolaena robusta	4	-30.7667	115.5833	15/09/1988
Jacksonia carduacea	3	-30.7715	115.5371	15/11/2011
Jacksonia carduacea	3	-30.6993	115.4816	30/10/2008

Taxon	Cons_Code	Latitude	Longitude	Date
Lepidobolus quadratus	3	-30.6417	115.5083	2/07/1992
Lepidobolus quadratus	3	-30.7667	115.5583	4/09/1981
Lyginia excelsa	1	-30.6833	115.4833	30/09/1995
Lyginia excelsa	1	-30.6833	115.4833	30/09/1995
Lyginia excelsa	1	-30.6833	115.4833	30/09/1995
Lyginia excelsa	1	-30.7103	115.4435	7/11/2008
Paracaleana dixonii	T	-30.6778	115.4181	19/12/2012
Podotheca pritzelii	3	-30.7167	115.6	10/10/1994
Ptychosema pusillum	T	-30.7857	115.4848	22/10/2009
Schoenus griffinianus	4	-30.6706	115.4145	3/12/2007
Schoenus griffinianus	4	-30.6697	115.4145	6/12/2007
Schoenus griffinianus	4	-30.6907	115.4686	29/11/2004
Schoenus natans	4	-30.722	115.4271	7/11/2008
Schoenus pennisetis	3	-30.6562	115.4665	7/11/2007
Stenanthemum sublineare	2	-30.6954	115.4529	29/10/2010
Stylidium aeonioides	4	-30.75	115.5833	15/09/1988
Stylidium aeonioides	4	-30.7515	115.5574	13/12/2005
Stylidium aeonioides	4	-30.751	115.5581	28/09/2004
Stylidium aeonioides	4	-30.6353	115.4797	31/10/2013
Stylidium hymenocraspedum	3	-30.7059	115.4202	9/10/2012
Stylidium hymenocraspedum	3	-30.65	115.45	/09/1974
Stylidium hymenocraspedum	3	-30.7063	115.4513	26/09/2012
Stylidium hymenocraspedum	3	-30.6542	115.464	29/07/2013
Stylidium hymenocraspedum	3	-30.7821	115.4597	20/10/2009
Stylidium hymenocraspedum	3	-30.6983	115.4395	29/10/2008
Stylidium periscelanthum	3	-30.75	115.5497	15/09/1988
Tetratea angulata	3	-30.6712	115.5034	8/10/2002
Tetratea angulata	3	-30.6408	115.5291	3/10/2013
Thelymitra apiculata	4	-30.6417	115.5083	2/07/1992
Thelymitra pulcherrima	2	-30.6297	115.4744	27/07/2014
Thysanotus glaucus	4	-30.7329	115.4301	2/11/2006
Verticordia lindleyi subsp. lindleyi	4	-30.7684	115.4825	19/11/2007

Taxon	Status	Rank	EPBC
Acacia cummingiana		3	
Acacia epacantha		3	
Acacia forrestiana	T	VU	VU
Acacia plicata		3	
Acacia splendens	T	CR	EN
Allocastrum ramosissima		3	
Andersonia gracilis	T	VU	EN
Anigozanthos humilis subsp. Badgingarra (S.D. Hopper 7114)		2	
Anigozanthos viridis subsp. terraspectans	T	VU	VU
Asterolasia drummondii		4	
Babingtonia delicata		1	
Baeckea sp. Dandaragan (G. Paczkowska s.n. PERTH 08245606)		1	
Banksia prionophylla		1	
Banksia pteridifolia subsp. vernalis		3	
Beaufortia eriocephala		3	
Chamelaucium sp. Cataby (G.J. Keighery 11009)	T	VU	VU
Chordifex reseminans		2	
Comesperma rhadinocarpum		2	
Conospermum scaposum		3	
Conostephium magnum		4	
Cristonia biloba subsp. pubescens		2	
Cryptandra sp. Cowcoving (Wittwer W 1210)		3	
Dampiera tephrea		2	
Desmocladius elongatus		4	
Desmocladius microcarpus		2	
Desmocladius nodatus		3	
Drosera marchantii subsp. prophylla		3	
Eleocharis keigheryi	T	VU	VU
Eucalyptus dolorosa	T	CR	EN
Eucalyptus x carnabyi		4	
Gastrolobium nudum		2	
Gompholobium gairdnerianum		3	
Grevillea calliantha	T	CR	EN
Grevillea florida		3	
Grevillea synapheae subsp. minyulo		1	
Grevillea tenuiloba		3	
Grevillea thelemanniana subsp. Cooljarloo (B.J. Keighery 28 B)		1	
Grevillea thyrsoidea subsp. thyrsoidea		3	
Guichenotia alba		3	
Hakea megalosperma	T	VU	VU
Hemigenia curvifolia		2	
Hibbertia spicata subsp. leptotheca		3	
Hypocalymma linifolium		1	
Hypocalymma sp. Cataby (G.J. Keighery 5151)		2	
Hypocalymma sp. Dandaragan (C.A. Gardner 9014)		1	
Hypocalymma tetrapterum		3	

Taxon	Status	Rank	EPBC
Isopogon panduratus subsp. palustris		3	
Lechenaultia galactites		3	
Lyginia excelsa		1	
Macarthuria keigheryi	T	EN	EN
Meionectes tenuifolia		3	
Ptychosema pusillum	T	VU	VU
Stylidium aconioides		4	

Taxon	ConsStatus	Gda94Lat	Gda94Long	LiveTotal
Andersonia gracilis	T	-30.6771	115.4181	0
Andersonia gracilis	T	-30.6849	115.4595	87
Andersonia gracilis	T	-30.6852	115.4606	39
Andersonia gracilis	T	-30.6857	115.4631	75
Andersonia gracilis	T	-30.686	115.4506	4
Andersonia gracilis	T	-30.7054	115.4112	0
Andersonia gracilis	T	-30.6785	115.4151	300
Andersonia gracilis	T	-30.671	115.4162	21
Andersonia gracilis	T	-30.6996	115.4817	12
Andersonia gracilis	T	-30.6899	115.482	9
Anigozanthos viridis subsp. terraspectans	T	-30.7099	115.4459	100
Anigozanthos viridis subsp. terraspectans	T	-30.721	115.407	200
Anigozanthos viridis subsp. terraspectans	T	-30.6863	115.4598	10
Anigozanthos viridis subsp. terraspectans	T	-30.6892	115.4166	0
Eleocharis keigheryi	T	-30.7438	115.5634	1000
Grevillea calliantha	T	-30.6858	115.5478	10
Grevillea calliantha	T	-30.6929	115.5787	2
Grevillea calliantha	T	-30.6815	115.5714	27
Grevillea calliantha	T	-30.7029	115.5811	3
Grevillea calliantha	T	-30.7206	115.5836	14
Hakea megalosperma	T	-30.6447	115.522	300
Hakea megalosperma	T	-30.6507	115.5134	12
Babingtonia delicata		1 -30.7015	115.4787	0
Grevillea synapheae subsp. minyulo		1 -30.6747	115.5478	1
Grevillea synapheae subsp. minyulo		1 -30.7001	115.567	0
Grevillea synapheae subsp. minyulo		1 -30.6971	115.5499	0
Grevillea synapheae subsp. minyulo		1 -30.6861	115.5476	6
Grevillea synapheae subsp. minyulo		1 -30.7108	115.5476	0
Anigozanthos humilis subsp. Badgingarra (S.D. Hopper 7114)		2 -30.6667	115.55	50
Anigozanthos humilis subsp. Badgingarra (S.D. Hopper 7114)		2 -30.7	115.5833	200
Anigozanthos humilis subsp. Badgingarra (S.D. Hopper 7114)		2 -30.6667	115.55	50
Anigozanthos humilis subsp. Badgingarra (S.D. Hopper 7114)		2 -30.7333	115.6	200
Chordifex reseminans		2 -30.698	115.4831	0
Chordifex reseminans		2 -30.7075	115.454	0
Dampiera tephrea		2 -30.746	115.5584	1
Hypocalymma sp. Cataby (G.J. Keighery 5151)		2 -30.7466	115.5599	50
Hypocalymma sp. Cataby (G.J. Keighery 5151)		2 -30.7477	115.559	0
Hypocalymma sp. Cataby (G.J. Keighery 5151)		2 -30.7466	115.5599	0
Grevillea florida		3 -30.7333	115.5333	0
Hypocalymma tetrapterum		3 -30.7488	115.5598	25
Hypocalymma tetrapterum		3 -30.7488	115.5598	25
Hypocalymma tetrapterum		3 -30.671	115.5556	40

Hypocalymma tetrapterum	3	-30.671	115.5556	10
Anigozanthos humilis subsp. chrysanthus	4	-30.7713	115.5492	0
Eucalyptus macrocarpa subsp. elachantha	4	-30.7571	115.5598	0
Eucalyptus macrocarpa subsp. elachantha	4	-30.771	115.5667	33
Eucalyptus macrocarpa subsp. elachantha	4	-30.6743	115.4456	5
Eucalyptus x carnabyi	4	-30.6385	115.5501	7
Grevillea saccata	4	-30.6721	115.5548	1
Grevillea saccata	4	-30.6974	115.4956	0
Grevillea saccata	4	-30.6652	115.4654	11
Grevillea saccata	4	-30.6724	115.5498	20
Grevillea saccata	4	-30.6718	115.5559	1
Hibbertia helianthemoides	4	-30.6774	115.4713	0
Hibbertia helianthemoides	4	-30.6774	115.4713	0
Schoenus griffinianus	4	-30.6907	115.4686	1
Verticordia lindleyi subsp. lindleyi	4	-30.771	115.532	0

NatureMap Species Report

Created By Guest user on 21/11/2016

Kingdom Plantae
Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 115° 30' 23" E, 30° 42' 19" S
Buffer 10km
Group By Family

Family	Species	Records
Anarthriaceae	7	13
Apiaceae	5	15
Apodanthaceae	2	3
Araliaceae	1	1
Asparagaceae	11	13
Asteraceae	19	33
Boryaceae	1	1
Brassicaceae	1	2
Campanulaceae	2	3
Casuarinaceae	3	17
Celastraceae	1	6
Centrolepidaceae	3	4
Colchicaceae	2	5
Cyperaceae	23	35
Dasyopogonaceae	2	7
Dicranaceae	1	1
Dilleniaceae	12	28
Droseraceae	14	28
Ecdelocoleaceae	1	6
Elaeocarpaceae	3	7
Ericaceae	26	86
Euphorbiaceae	1	1
Fabaceae	56	128
Goodeniaceae	17	39
Gyrostemonaceae	2	6
Haemodoraceae	27	88
Haloragaceae	2	4
Hemerocallidaceae	4	11
Iridaceae	2	3
Juncaginaceae	1	2
Lamiaceae	5	12
Loganiaceae	2	8
Loranthaceae	1	1
Lycopodiaceae	1	1
Malvaceae	4	8
Molluginaceae	1	1
Myrtaceae	64	191
Orchidaceae	14	16
Oxalidaceae	1	1
Philydraceae	1	1
Pittosporaceae	1	2
Poaceae	6	6
Polygalaceae	1	1
Portulacaceae	1	1
Pottiaceae	1	1
Proteaceae	64	213
Restionaceae	15	30
Rhamnaceae	7	13
Rubiaceae	1	5
Rutaceae	5	9
Solanaceae	2	2
Stylidiaceae	21	34
Thymelaeaceae	4	5
Violaceae	2	2
Xanthorrhoeaceae	2	2
Zamiaceae	1	1
TOTAL	480	1163

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
Anarthriaceae				
1.	1058 <i>Anarthria gracilis</i>			
2.	1059 <i>Anarthria humilis</i>			
3.	1060 <i>Anarthria laevis</i>			
4.	17742 <i>Hopkinsia anoectocolea</i>		P3	
5.	1097 <i>Lyginia barbata</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
6.	19245	<i>Lyginia excelsa</i>		P1	
7.	18049	<i>Lyginia imberbis</i>			
Apiaceae					
8.	6205	<i>Actinotus leucocephalus</i> (Flannel Flower)			
9.	6222	<i>Homalosciadium homalocarpum</i>			
10.	6262	<i>Platysace xerophila</i>			
11.	6285	<i>Xanthosia ciliata</i>			
12.	6289	<i>Xanthosia huegelii</i>			
Apodanthaceae					
13.	33460	<i>Pilostyles coccoidea</i>			
14.	2408	<i>Pilostyles hamiltonii</i>			
Araliaceae					
15.	6280	<i>Trachymene pilosa</i> (Native Parsnip)			
Asparagaceae					
16.	1265	<i>Arthropodium curvipes</i>			
17.	11299	<i>Chamaescilla corymbosa</i> var. <i>corymbosa</i>			
18.	11464	<i>Laxmannia sessiliflora</i> subsp. <i>australis</i>			
19.	1309	<i>Laxmannia squarrosa</i>			
20.	1239	<i>Lomandra preissii</i>			
21.	1243	<i>Lomandra sericea</i> (Silky Mat Rush)			
22.	1334	<i>Thysanotus glaucus</i>		P4	
23.	1343	<i>Thysanotus patersonii</i>			
24.	1351	<i>Thysanotus sparteus</i>			
25.	1357	<i>Thysanotus thyrsoideus</i>			
26.	1358	<i>Thysanotus triandrus</i>			
Asteraceae					
27.	7845	<i>Asteridea asteroidea</i>			
28.	13354	<i>Craspedia variabilis</i>			
29.	8002	<i>Gnephosis tenuissima</i>			
30.	8008	<i>Helianthus annuus</i> (Sunflower, Common Sunflower)	Y		
31.	12741	<i>Hyalosperma cotula</i>			
32.	29418	<i>Monoculus monstrosus</i>	Y		
33.	18353	<i>Pithocarpa pulchella</i> var. <i>pulchella</i>			
34.	45237	<i>Podolepis aristata</i> subsp. <i>aristata</i>			
35.	8177	<i>Podolepis lessonii</i>			
36.	8182	<i>Podotheca angustifolia</i> (Sticky Longheads)			
37.	8184	<i>Podotheca gnaphalioides</i> (Golden Long-heads)			
38.	12733	<i>Podotheca pritzelii</i>		P3	
39.	13255	<i>Pterochaeta paniculata</i>			
40.	13300	<i>Rhodanthe citrina</i>			
41.	13234	<i>Rhodanthe manglesii</i>			
42.	38388	<i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>	Y		
43.	15725	<i>Verbesina encelioides</i>	Y		
44.	8282	<i>Waitzia suaveolens</i> (Fragrant Waitzia)			
45.	13333	<i>Waitzia suaveolens</i> var. <i>suaveolens</i>			
Boryaceae					
46.	1273	<i>Borya sphaerocephala</i> (Pincushions)			
Brassicaceae					
47.	3061	<i>Raphanus raphanistrum</i> (Wild Radish)	Y		
Campanulaceae					
48.	7405	<i>Lobelia rarifolia</i>			
49.	7386	<i>Wahlenbergia gracilentia</i> (Annual Bluebell)			
Casuarinaceae					
50.	1732	<i>Allocasuarina humilis</i> (Dwarf Sheoak)			
51.	1734	<i>Allocasuarina microstachya</i>			
52.	1739	<i>Allocasuarina thuyoides</i> (Horned Sheoak)			
Celastraceae					
53.	9070	<i>Stackhousia pubescens</i> (Downy Stackhousia)			
Centrolepidaceae					
54.	1121	<i>Centrolepis aristata</i> (Pointed Centrolepis)			
55.	1125	<i>Centrolepis drummondiana</i>			
56.	1134	<i>Centrolepis polygyna</i> (Wiry Centrolepis)			
Colchicaceae					
57.	1383	<i>Burchardia bairdiae</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
58.	12770 <i>Burchardia congesta</i>			
Cyperaceae				
59.	768 <i>Cyathochaeta avenacea</i>			
60.	17605 <i>Eleocharis keigheryi</i>		T	
61.	919 <i>Isolepis oldfieldiana</i>			
62.	937 <i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)			
63.	944 <i>Lepidosperma scabrum</i>			
64.	<i>Lepidosperma</i> sp.			
65.	945 <i>Lepidosperma squamatum</i>			
66.	954 <i>Mesomelaena preissii</i>			
67.	955 <i>Mesomelaena pseudostygia</i>			
68.	971 <i>Schoenus andrewsii</i>			
69.	978 <i>Schoenus brevisetis</i>			
70.	982 <i>Schoenus clandestinus</i>			
71.	986 <i>Schoenus efoliatus</i>			
72.	17606 <i>Schoenus griffinianus</i>		P4	
73.	17617 <i>Schoenus insolitus</i>			
74.	1003 <i>Schoenus natans</i> (Floating Bog-rush)		P4	
75.	1008 <i>Schoenus pennisetis</i>		P3	
76.	1011 <i>Schoenus rigens</i>			
77.	1018 <i>Schoenus subfascicularis</i>			
78.	16252 <i>Schoenus subflavus</i> subsp. <i>subflavus</i>			
79.	1026 <i>Schoenus unispiculatus</i>			
80.	1036 <i>Tetraria octandra</i>			
81.	1038 <i>Tricostularia neesii</i>			
Dasypogonaceae				
82.	19309 <i>Calectasia narragara</i>			
83.	1220 <i>Dasypogon obliquifolius</i>			
Dicranaceae				
84.	32338 <i>Campylopus introflexus</i>	Y		
Dilleniaceae				
85.	5112 <i>Hibbertia aurea</i>			
86.	5116 <i>Hibbertia crassifolia</i>			
87.	5133 <i>Hibbertia helianthemoides</i>		P4	
88.	5134 <i>Hibbertia huegelii</i>			
89.	5135 <i>Hibbertia hypericoides</i> (Yellow Buttercups)			
90.	45534 <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>			
91.	5148 <i>Hibbertia mylnei</i>			
92.	5157 <i>Hibbertia polystachya</i>			
93.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
94.	43280 <i>Hibbertia sericosepala</i>			
95.	46435 <i>Hibbertia</i> sp. Geraldton Sandplains (R. Edmiston E 421)			
96.	5173 <i>Hibbertia subvaginata</i>			
Droseraceae				
97.	13203 <i>Drosera closterostigma</i>			
98.	13201 <i>Drosera eneabba</i>			
99.	13212 <i>Drosera erythrorhiza</i> subsp. <i>magna</i>			
100.	3098 <i>Drosera glanduligera</i> (Pimpernel Sundew)			
101.	3101 <i>Drosera heterophylla</i> (Swamp Rainbow)			
102.	13199 <i>Drosera leioblastus</i>			
103.	14298 <i>Drosera macrantha</i> subsp. <i>macrantha</i>			
104.	13208 <i>Drosera marchantii</i> subsp. <i>prophylla</i>		P3	
105.	13216 <i>Drosera menziesii</i> subsp. <i>penicillaris</i>			
106.	3118 <i>Drosera pallida</i> (Pale Rainbow)			
107.	3119 <i>Drosera parvula</i> (Small Sundew)			
108.	3123 <i>Drosera platystigma</i> (Black-eyed Sundew)			
109.	29178 <i>Drosera porrecta</i>			
110.	13185 <i>Drosera pilos</i>			
Ecdeiocolaeaceae				
111.	1066 <i>Ecdeiocola monostachya</i>			
Elaeocarpaceae				
112.	23982 <i>Tetratheca angulata</i>		P3	
113.	4528 <i>Tetratheca confertifolia</i>			
114.	4539 <i>Tetratheca paucifolia</i>			
Ericaceae				
115.	6309 <i>Andersonia gracilis</i>		T	

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
116.	6311	<i>Andersonia heterophylla</i>			
117.	6314	<i>Andersonia lehmanniana</i>			
118.	6328	<i>Astroloma glaucescens</i>			
119.	6334	<i>Astroloma pallidum</i> (Kick Bush)			
120.	14501	<i>Astroloma</i> sp. <i>Eneabba</i> (N. Marchant s.n. PERTH 01291777)			
121.	6339	<i>Astroloma xerophyllum</i>			
122.	19026	<i>Conostephium magnum</i>		P4	
123.	6347	<i>Conostephium minus</i> (Pink-tipped Pearl flower)			
124.	6348	<i>Conostephium pendulum</i> (Pearl Flower)			
125.	6349	<i>Conostephium preissii</i>			
126.	13527	<i>Croninia kingiana</i>			
127.	6374	<i>Leucopogon conostephioides</i>			
128.	6397	<i>Leucopogon glaucifolius</i>			
129.	6400	<i>Leucopogon gracillimus</i>			
130.	6401	<i>Leucopogon hamulosus</i>			
131.	6420	<i>Leucopogon oldfieldii</i>			
132.	6421	<i>Leucopogon oliganthus</i>			
133.	6430	<i>Leucopogon planifolius</i>			
134.	6434	<i>Leucopogon polymorphus</i>			
135.	39501	<i>Leucopogon</i> sp. <i>Coomallo</i> (R.J. Cranfield 1457)			
136.	14637	<i>Leucopogon</i> sp. <i>Coujinup</i> (M.A. Burgman 1085)			
137.	17723	<i>Leucopogon</i> sp. <i>Lesueur</i> (B. Evans 530)			
138.	34157	<i>Leucopogon</i> sp. <i>Northern ciliate</i> (R. Davis 3393)			
139.	6444	<i>Leucopogon sprengelioides</i>			
140.	34736	<i>Lysinema pentapetalum</i>			

Euphorbiaceae

141.	19942	<i>Ricinocarpus undulatus</i>			
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Fabaceae

142.	15466	<i>Acacia applanata</i>			
143.	3231	<i>Acacia auronitens</i>			
144.	3242	<i>Acacia blakelyi</i>			
145.	14061	<i>Acacia clydonophora</i>			
146.	3271	<i>Acacia costata</i>			
147.	20435	<i>Acacia daphnifolia</i>			
148.	11926	<i>Acacia drewiana</i> subsp. <i>drewiana</i>			
149.	3341	<i>Acacia forrestiana</i> (Forrest's Wattle)		T	
150.	11611	<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>			
151.	3442	<i>Acacia microbotrya</i> (Manna Wattle, Kalyang)			
152.	3493	<i>Acacia plicata</i>		P3	
153.	15481	<i>Acacia pulchella</i> var. <i>glaberrima</i>			
154.	15483	<i>Acacia pulchella</i> var. <i>pulchella</i>			
155.	3525	<i>Acacia rostellifera</i> (Summer-scented Wattle)			
156.	30033	<i>Acacia saligna</i> subsp. <i>lindleyi</i>			
157.	3532	<i>Acacia scirpifolia</i>			
158.	3541	<i>Acacia sessilis</i>			
159.	15486	<i>Acacia sphacelata</i> subsp. <i>verticillata</i>			
160.	3557	<i>Acacia stenoptera</i> (Narrow Winged Wattle)			
161.	3574	<i>Acacia teretifolia</i>			
162.	3710	<i>Bossiaea eriocarpa</i> (Common Brown Pea)			
163.	35837	<i>Cristonia biloba</i> subsp. <i>pubescens</i>		P2	
164.	3793	<i>Daviesia angulata</i>			
165.	3805	<i>Daviesia decurrens</i> (Prickly Bitter-pea)			
166.	19747	<i>Daviesia decurrens</i> subsp. <i>decurrens</i>			
167.	3807	<i>Daviesia divaricata</i> (Marno)			
168.	15505	<i>Daviesia incrassata</i> subsp. <i>incrassata</i>			
169.	15506	<i>Daviesia incrassata</i> subsp. <i>teres</i>			
170.	16585	<i>Daviesia nudiflora</i> subsp. <i>nudiflora</i>			
171.	3833	<i>Daviesia podophylla</i>			
172.	3835	<i>Daviesia preissii</i>			
173.	3845	<i>Daviesia triflora</i>			
174.	20515	<i>Gastrolobium axillare</i>			
175.	20475	<i>Gastrolobium capitatum</i>			
176.	3906	<i>Gastrolobium ilicifolium</i>			
177.	3912	<i>Gastrolobium oxylobioides</i> (Champion Bay Poison)			
178.	3916	<i>Gastrolobium polystachyum</i> (Horned Poison)			
179.	3924	<i>Gastrolobium spinosum</i> (Prickly Poison)			
180.	10909	<i>Gompholobium confertum</i>			
181.	23489	<i>Gompholobium gairdnerianum</i>		P3	
182.	3957	<i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
183.	3966	<i>Hovea pungens</i> (Devil's Pins, Puyenak)			
184.	3967	<i>Hovea stricta</i>			
185.	3992	<i>Isotropis cuneifolia</i> (Granny Bonnets)			
186.	19700	<i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>			
187.	4003	<i>Jacksonia carduea</i>		P3	
188.	4010	<i>Jacksonia floribunda</i> (Holly Pea)			
189.	14778	<i>Jacksonia nutans</i>			
190.	4025	<i>Jacksonia restioides</i>			
191.	4044	<i>Kennedia prostrata</i> (Scarlet Runner)			
192.	4100	<i>Mirbelia spinosa</i>			
193.	4161	<i>Ptychosema pusillum</i> (Dwarf Pea)		T	
194.	17551	<i>Sphaerolobium drummondii</i>			
195.	4291	<i>Trifolium arvense</i> (Hare's Foot Clover)	Y		
196.	4292	<i>Trifolium campestre</i> (Hop Clover)	Y		
197.	4298	<i>Trifolium hirtum</i> (Rose Clover)	Y		

Goodeniaceae

198.	7454	<i>Dampiera linearis</i> (Common Dampiera)			
199.	7475	<i>Dampiera spicigera</i> (Spiked Dampiera)			
200.	7481	<i>Dampiera tephrea</i>		P2	
201.	29362	<i>Goodenia coerulea</i>			
202.	12516	<i>Goodenia convexa</i>			
203.	7538	<i>Goodenia pulchella</i>			
204.	7568	<i>Lechenaultia biloba</i> (Blue Leschenaultia)			
205.	7580	<i>Lechenaultia linarioides</i> (Yellow Leschenaultia)			
206.	7586	<i>Lechenaultia stenosepala</i> (Narrow-sepaled Leschenaultia)			
207.	7595	<i>Scaevola anchusifolia</i>			
208.	7603	<i>Scaevola canescens</i> (Grey Scaevola)			
209.	7613	<i>Scaevola glandulifera</i> (Viscid Hand-flower)			
210.	7634	<i>Scaevola phlebopetala</i> (Velvet Fanflower)			
211.	12585	<i>Scaevola repens</i>			
212.	12588	<i>Scaevola virgata</i>			
213.	7665	<i>Velleia trinervis</i>			
214.	7666	<i>Verreauxia reinwardtii</i> (Common Verreauxia)			

Gyrostemonaceae

215.	2783	<i>Gyrostemon racemiger</i>			
216.	2784	<i>Gyrostemon ramulosus</i> (Corkybark)			

Haemodoraceae

217.	1409	<i>Anigozanthos humilis</i> (Catspaw)			
218.	29437	<i>Anigozanthos humilis</i> subsp. <i>Badgingarra</i> (S.D. Hopper 7114)		P2	
219.	11957	<i>Anigozanthos humilis</i> subsp. <i>chrysanthus</i> (Golden Catspaw)		P4	
220.	11434	<i>Anigozanthos humilis</i> subsp. <i>humilis</i>			
221.	1414	<i>Anigozanthos pulcherrimus</i> (Yellow Kangaroo Paw)			
222.	13891	<i>Anigozanthos viridis</i> subsp. <i>terraspectans</i> (Dwarf Green Kangaroo Paw)		T	
223.	1417	<i>Blancoa canescens</i> (Winter Bell)			
224.	1418	<i>Conostylis aculeata</i> (Prickly Conostylis)			
225.	11414	<i>Conostylis aculeata</i> subsp. <i>breviflora</i>			
226.	11552	<i>Conostylis aculeata</i> subsp. <i>bromelioides</i>			
227.	11977	<i>Conostylis aculeata</i> subsp. <i>spinuligera</i> (Spiny Conostylis)			
228.	1420	<i>Conostylis androstemma</i> (Trumpets)			
229.	1421	<i>Conostylis angustifolia</i>			
230.	1423	<i>Conostylis aurea</i> (Golden Conostylis)			
231.	11438	<i>Conostylis candicans</i> subsp. <i>candicans</i>			
232.	11773	<i>Conostylis crassinervia</i> subsp. <i>absens</i>			
233.	11695	<i>Conostylis festuacea</i> subsp. <i>festuacea</i>			
234.	1435	<i>Conostylis hiemalis</i>			
235.	1436	<i>Conostylis juncea</i>			
236.	11870	<i>Conostylis teretifolia</i> subsp. <i>teretifolia</i>			
237.	1458	<i>Conostylis teretiuscula</i>			
238.	1470	<i>Haemodorum paniculatum</i> (Mardja)			
239.	1473	<i>Haemodorum simulans</i>			
240.	1475	<i>Haemodorum spicatum</i> (Mardja)			
241.	1476	<i>Haemodorum venosum</i>			
242.	1478	<i>Phlebocarya ciliata</i>			
243.	1481	<i>Tribonanthes australis</i>			

Haloragaceae

244.	6143	<i>Glischrocaryon aureum</i> (Common Popflower)			
245.	6161	<i>Gonocarpus pithyoides</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Hemerocallidaceae				
246.	1263 <i>Arnocrinum gracillimum</i>		P2	
247.	29439 <i>Caesia</i> sp. Wongan (K.F. Kenneally 8820)			
248.	19632 <i>Johnsonia pubescens</i> subsp. <i>pubescens</i>			
249.	29481 <i>Tricoryne</i> sp. <i>Eneabba</i> (E.A. Griffin 1200)			
Iridaceae				
250.	1546 <i>Patersonia juncea</i> (Rush Leaved <i>Patersonia</i>)			
251.	1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)			
Juncaginaceae				
252.	148 <i>Triglochin muelleri</i>			
Lamiaceae				
253.	6838 <i>Hemiandra linearis</i> (Speckled Snakebush)			
254.	6839 <i>Hemiandra pungens</i> (Snakebush)			
255.	6856 <i>Hemigenia incana</i> (Silky <i>Hemigenia</i>)			
256.	41020 <i>Hemiphora bartlingii</i> (Woolly Dragon)			
257.	41080 <i>Quoya verbascina</i> (Golden Bush)			
Loganiaceae				
258.	46255 <i>Orianthera campanulata</i>			
259.	46254 <i>Orianthera spermacoea</i>			
Loranthaceae				
260.	2401 <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)			
Lycopodiaceae				
261.	4 <i>Phylloglossum drummondii</i> (Pigmy Clubmoss)			
Malvaceae				
262.	40908 <i>Androcalva pulchella</i>			
263.	13233 <i>Guichenotia alba</i>		P3	
264.	5036 <i>Lasiopetalum lineare</i>			
265.	15552 <i>Lasiopetalum</i> sp. Hill River (T.N. Stoate 5)		P1	
Molluginaceae				
266.	2838 <i>Macarthuria apetala</i>			
Myrtaceae				
267.	45397 <i>Babingtonia cherticola</i>		P3	
268.	45395 <i>Babingtonia delicata</i>		P1	
269.	45416 <i>Babingtonia grandiflora</i> (Large-flowered <i>Babingtonia</i>)			
270.	45402 <i>Babingtonia urbana</i> (Coastal Plain <i>Babingtonia</i>)		P3	
271.	5377 <i>Beaufortia bicolor</i> (Badgingarra <i>Beaufortia</i>)		P3	
272.	5384 <i>Beaufortia eriocephala</i> (Woolly Bottlebrush, Woolly <i>Beaufortia</i>)		P3	
273.	5393 <i>Beaufortia squarrosa</i> (Sand <i>Beaufortia</i> , Sand Bottlebrush, Puno)			
274.	5411 <i>Calothamnus hirsutus</i>			
275.	35816 <i>Calothamnus quadrifidus</i> subsp. <i>quadrifidus</i>			
276.	5429 <i>Calothamnus sanguineus</i> (Silky-leaved Blood flower, Pindak)			
277.	5431 <i>Calothamnus torulosus</i>			
278.	5439 <i>Calytrix angulata</i> (Yellow Starflower)			
279.	5441 <i>Calytrix aurea</i>			
280.	5465 <i>Calytrix leschenaultii</i>			
281.	35619 <i>Chamelaucium</i> sp. <i>Cataby</i> (G.J. Keighery 11009)		T	
282.	5498 <i>Chamelaucium uncinatum</i> (Geraldton Wax)			
283.	5502 <i>Conothamnus trinervis</i>			
284.	5518 <i>Darwinia neildiana</i> (Fringed Bell)			
285.	5524 <i>Darwinia pinifolia</i>			
286.	20090 <i>Darwinia</i> sp. <i>Watheroo</i> (I.R. McGill 20)			
287.	13949 <i>Eremaea asterocarpa</i>			
288.	13950 <i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i>			
289.	5541 <i>Eremaea pauciflora</i>			
290.	5542 <i>Eremaea purpurea</i>			
291.	12898 <i>Eucalyptus abdita</i>		P2	
292.	5628 <i>Eucalyptus drummondii</i> (Drummond's Gum)			
293.	5658 <i>Eucalyptus gittinsii</i> (Northern Sandplain Mallee)			
294.	18292 <i>Eucalyptus gittinsii</i> subsp. <i>illucida</i>			
295.	13531 <i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i> (Small-leaved Mottlecah)		P4	
296.	13530 <i>Eucalyptus macrocarpa</i> subsp. <i>macrocarpa</i> (Mottlecah)			
297.	5717 <i>Eucalyptus myriadena</i>			
298.	42062 <i>Eucalyptus opimiflora</i>			
299.	5763 <i>Eucalyptus rudis</i> (Flooded Gum, Kulurda)			
300.	13511 <i>Eucalyptus rudis</i> subsp. <i>rudis</i>			
301.	5790 <i>Eucalyptus todtiana</i> (Coastal Blackbutt)			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
302.	12905	<i>Eucalyptus wandoo</i> subsp. <i>pulverea</i>			
303.	16944	<i>Eucalyptus</i> x <i>carabyi</i>		P4	
304.	35070	<i>Hypocalymma angustifolium</i> subsp. <i>Swan Coastal Plain</i> (G.J. Keighery 16777)			
305.	14493	<i>Hypocalymma</i> sp. <i>Cataby</i> (G.J. Keighery 5151)		P2	
306.	5828	<i>Hypocalymma tetrapterum</i>		P3	
307.	5829	<i>Hypocalymma xanthopetalum</i>			
308.	5847	<i>Leptospermum erubescens</i> (<i>Roadside Teatree</i>)			
309.	17982	<i>Melaleuca carrii</i>			
310.	5888	<i>Melaleuca ciliosa</i>			
311.	19387	<i>Melaleuca clavifolia</i>			
312.	5959	<i>Melaleuca raphiophylla</i> (<i>Swamp Paperbark</i>)			
313.	5964	<i>Melaleuca serata</i>			
314.	5983	<i>Melaleuca trichophylla</i>			
315.	16477	<i>Pericalymma ellipticum</i> var. <i>ellipticum</i>			
316.	15501	<i>Pericalymma spongiocaulum</i>			
317.	6009	<i>Pileanthus filifolius</i> (<i>Summer Coppercups</i>)			
318.	6033	<i>Scholtzia involucrata</i> (<i>Spiked Scholtzia</i>)			
319.	6037	<i>Scholtzia parviflora</i>			
320.	6057	<i>Thryptomene hyporhytis</i>			
321.	6060	<i>Thryptomene mucronulata</i>			
322.	12396	<i>Verticordia blepharophylla</i>			
323.	12411	<i>Verticordia densiflora</i> var. <i>cespitosa</i>			
324.	15432	<i>Verticordia densiflora</i> var. <i>densiflora</i>			
325.	6077	<i>Verticordia drummondii</i> (<i>Drummond's Featherflower</i>)			
326.	6083	<i>Verticordia grandis</i> (<i>Scarlet Featherflower</i>)			
327.	14714	<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		P4	
328.	10822	<i>Verticordia nobilis</i>			
329.	6103	<i>Verticordia ovalifolia</i>			
330.	6107	<i>Verticordia pennigera</i>			

Orchidaceae

331.	1586	<i>Caladenia discoidea</i> (<i>Dancing Orchid</i>)			
332.	15369	<i>Caladenia lorea</i>			
333.	15436	<i>Diuris porrifolia</i>			
334.	42229	<i>Diuris segregata</i>			
335.	1643	<i>Elythranthera brunonis</i> (<i>Purple Enamel Orchid</i>)			
336.	12761	<i>Microtis media</i> subsp. <i>densiflora</i>			
337.	15419	<i>Microtis media</i> subsp. <i>media</i>			
338.	13867	<i>Paracaleana dixonii</i>		T	
339.	10853	<i>Prasophyllum plumiforme</i>			
340.	44723	<i>Pterostylis glebosa</i>			
341.	45343	<i>Pterostylis platypetala</i>			
342.	1698	<i>Pterostylis vittata</i> (<i>Banded Greenhood</i>)			
343.	11032	<i>Thelymitra apiculata</i>		P4	
344.	20734	<i>Thelymitra pulcherrima</i>		P2	

Oxalidaceae

345.	4352	<i>Oxalis glabra</i>	Y		
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Philydraceae

346.	1173	<i>Philydrella pygmaea</i> (<i>Butterfly Flowers</i>)			
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Pittosporaceae

347.	17633	<i>Marianthus erubescens</i>			
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Poaceae

348.	185	<i>Aira cupaniana</i> (<i>Silvery Hairgrass</i>)	Y		
349.	199	<i>Amphipogon strictus</i> (<i>Greybeard Grass</i>)			
350.	17237	<i>Austrostipa elegantissima</i>			
351.	17257	<i>Austrostipa variabilis</i>			
352.	347	<i>Ehrharta calycina</i> (<i>Perennial Veldt Grass</i>)	Y		
353.	468	<i>Lamarckia aurea</i> (<i>Goldentop</i>)	Y		

Polygalaceae

354.	4566	<i>Comesperma volubile</i> (<i>Love Creeper</i>)			
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Portulacaceae

355.	2848	<i>Calandrinia corrigioloides</i> (<i>Strap Purslane</i>)			
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Pottiaceae

356.	32315	<i>Barbula calycina</i>			
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Proteaceae

357.	11837	<i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i> (<i>Common Woollybush</i>)			
358.	1779	<i>Adenanthos drummondii</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
359.	32682 <i>Banksia armata</i> var. <i>armata</i>			
360.	1800 <i>Banksia attenuata</i> (Slender Banksia, Piara)			
361.	32679 <i>Banksia bipinnatifida</i> subsp. <i>multifida</i>			
362.	32576 <i>Banksia dallanneyi</i> (Couch Honeypot)			
363.	32580 <i>Banksia dallanneyi</i> var. <i>dallanneyi</i>			
364.	32577 <i>Banksia dallanneyi</i> var. <i>mellicula</i>			
365.	32521 <i>Banksia fraseri</i>			
366.	32519 <i>Banksia glaucifolia</i>			
367.	1820 <i>Banksia grossa</i>			
368.	32518 <i>Banksia hewardiana</i>			
369.	1830 <i>Banksia littoralis</i> (Swamp Banksia, Pungura)			
370.	32086 <i>Banksia sclerophylla</i>			
371.	32074 <i>Banksia shuttleworthiana</i> (Bearded Dryandra)			
372.	33401 <i>Banksia sphaerocarpa</i> var. <i>pumilio</i>			
373.	1852 <i>Banksia telmatiaea</i> (Swamp Fox Banksia)			
374.	1864 <i>Conospermum crassinervium</i> (Summer Smokebush)			
375.	1878 <i>Conospermum nervosum</i>			
376.	1882 <i>Conospermum stoechadis</i> (Common Smokebush)			
377.	15611 <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> (Common Smokebush)			
378.	12221 <i>Grevillea calliantha</i>		T	
379.	1994 <i>Grevillea drummondii</i> (Drummond's Grevillea)		P4	
380.	19567 <i>Grevillea florida</i>		P3	
381.	2087 <i>Grevillea saccata</i> (Pouched Grevillea)		P4	
382.	19569 <i>Grevillea synapheae</i> subsp. <i>A Flora of Australia</i> (S.D. Hopper 6333)		P1	
383.	17450 <i>Grevillea synapheae</i> subsp. <i>minyulo</i>		P1	Y
384.	14420 <i>Grevillea synapheae</i> subsp. <i>pachyphylla</i>			
385.	14423 <i>Grevillea thyrsoidea</i> subsp. <i>thyrsoidea</i>		P3	
386.	2116 <i>Grevillea uncinulata</i> (Hook-leaf Grevillea)			
387.	19231 <i>Grevillea uncinulata</i> subsp. <i>Coomallo</i> (S.J. Patrick 719)			
388.	17670 <i>Hakea anadenia</i>			
389.	2131 <i>Hakea auriculata</i>			
390.	2136 <i>Hakea candolleana</i>			
391.	2143 <i>Hakea conchifolia</i> (Shell-leaved Hakea)			
392.	2146 <i>Hakea costata</i> (Ribbed Hakea)			
393.	2164 <i>Hakea gilbertii</i>			
394.	2166 <i>Hakea incrassata</i> (Marble Hakea)			
395.	2175 <i>Hakea lissocarpha</i> (Honey Bush)			
396.	12230 <i>Hakea longiflora</i>		P3	
397.	2180 <i>Hakea megalosperma</i> (Lesueur Hakea)		T	
398.	45333 <i>Hakea neospathulata</i>			
399.	13336 <i>Hakea obliqua</i> subsp. <i>parviflora</i>			
400.	2197 <i>Hakea prostrata</i> (Harsh Hakea)			
401.	12233 <i>Hakea psilorrhyncha</i>			
402.	2205 <i>Hakea smilacifolia</i>			
403.	2214 <i>Hakea trifurcata</i> (Two-leaf Hakea)			
404.	2219 <i>Isopogon adenanthoides</i> (Spider Coneflower)			
405.	2221 <i>Isopogon asper</i>			
406.	2227 <i>Isopogon divergens</i> (Spreading Coneflower)			
407.	2232 <i>Isopogon linearis</i>			
408.	15528 <i>Lambertia multiflora</i> var. <i>multiflora</i>			
409.	2258 <i>Persoonia comata</i>			
410.	20368 <i>Petrophile axillaris</i>			
411.	2286 <i>Petrophile brevifolia</i>			
412.	2299 <i>Petrophile linearis</i> (Pixie Mops)			
413.	2301 <i>Petrophile macrostachya</i>			
414.	16874 <i>Petrophile recurva</i>			
415.	2310 <i>Petrophile shuttleworthiana</i>			
416.	2312 <i>Petrophile striata</i>			
417.	12856 <i>Stirlingia abrotanoides</i>			
418.	16858 <i>Synaphea endoctrix</i>		P3	
419.	2329 <i>Synaphea spinulosa</i>			
420.	15532 <i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>			
Restionaceae				
421.	1056 <i>Alexgeorgea nitens</i>			
422.	1057 <i>Alexgeorgea subterranea</i>			
423.	17685 <i>Chaetanthes aristatus</i>			
424.	17827 <i>Chordifex chaunocoleus</i>		P4	
425.	19243 <i>Chordifex reseminans</i>		P2	
426.	17706 <i>Chordifex sinuosus</i>			
427.	15828 <i>Desmocladus elongatus</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
			P4	
428.	46364 <i>Desmocladius microcarpus</i>		P2	
429.	46365 <i>Desmocladius nodatus</i>		P3	
430.	16455 <i>Desmocladius virgatus</i>			
431.	1070 <i>Hypolaena exsulca</i>			
432.	17622 <i>Hypolaena robusta</i>		P4	
433.	1075 <i>Lepidobolus preissianus</i>			
434.	13775 <i>Lepidobolus quadratus</i>		P3	
435.	1078 <i>Leptocarpus coangustatus</i>			
Rhamnaceae				
436.	31571 <i>Cryptandra intermedia</i>			
437.	9076 <i>Cryptandra myriantha</i>			
438.	4809 <i>Cryptandra pungens</i>			
439.	13475 <i>Stenanthemum humile</i>			
440.	15065 <i>Stenanthemum notiale</i> subsp. <i>notiale</i>			
441.	14240 <i>Stenanthemum reissekii</i>			
442.	19704 <i>Stenanthemum sublineare</i>		P2	
Rubiaceae				
443.	18255 <i>Opercularia vaginata</i> (Dog Weed)			
Rutaceae				
444.	4397 <i>Asterolasia drummondii</i> (Gairdner Range Starbush)		P4	
445.	11381 <i>Boronia ramosa</i> subsp. <i>anethifolia</i>			
446.	4440 <i>Boronia scabra</i> (Rough Boronia)			
447.	16639 <i>Boronia scabra</i> subsp. <i>scabra</i>			
448.	4444 <i>Boronia tenuis</i> (Blue Boronia)		P4	
Solanaceae				
449.	7013 <i>Solanum hoplopetalum</i> (Thorny Solanum)			
450.	7018 <i>Solanum lasiophyllum</i> (Flannel Bush, Mindjulu)			
Stylidiaceae				
451.	7672 <i>Levenhookia octomaculata</i> (Eight-spotted Stylewort)			
452.	7676 <i>Levenhookia pusilla</i> (Midget Stylewort)			
453.	7677 <i>Levenhookia stipitata</i> (Common Stylewort)			
454.	7680 <i>Stylidium aeonioides</i>		P4	
455.	7709 <i>Stylidium crossoccephalum</i> (Posy Triggerplant)			
456.	7710 <i>Stylidium cygnorum</i>			
457.	7716 <i>Stylidium diuroides</i> (Donkey Triggerplant)			
458.	18420 <i>Stylidium flagellum</i>			
459.	20701 <i>Stylidium hymenocraspedum</i>		P3	
460.	7742 <i>Stylidium inundatum</i> (Hundreds and Thousands)			
461.	17412 <i>Stylidium kalbarriense</i>			
462.	7762 <i>Stylidium miniatum</i> (Pink Butterfly Triggerplant)			
463.	7768 <i>Stylidium obtusatum</i> (Pinafore Triggerplant)			
464.	7771 <i>Stylidium periscelanthum</i> (Pantaloons Triggerplant)		P3	
465.	25837 <i>Stylidium purpureum</i> (Purple Fountain Triggerplant)			
466.	20521 <i>Stylidium rigidulum</i>			
467.	<i>Stylidium</i> sp.			
468.	17510 <i>Stylidium</i> sp. <i>Kalbarri</i> (A. Carr 145)			
469.	25836 <i>Stylidium spiciforme</i> (Spiciform Triggerplant)			
470.	20608 <i>Stylidium stenosepalum</i>			
471.	17578 <i>Stylidium udusicola</i>			
Thymelaeaceae				
472.	5231 <i>Pimelea angustifolia</i> (Narrow-leaved Pimelea)			
473.	5244 <i>Pimelea floribunda</i>			
474.	11402 <i>Pimelea imbricata</i> var. <i>pilligera</i>			
475.	5254 <i>Pimelea leucantha</i>			
Violaceae				
476.	5221 <i>Hybanthus floribundus</i>			
477.	12007 <i>Hybanthus floribundus</i> subsp. <i>floribundus</i>			
Xanthorrhoeaceae				
478.	1252 <i>Xanthorrhoea drummondii</i>			
479.	1256 <i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
Zamiaceae				
480.	18119 <i>Macrozamia fraseri</i>			

Conservation Codes

Name	ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
T - Bare 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.

APPENDIX F

Flora Likelihood Table

Assessment of the Likely Occurrence of DRF and Priority Flora (as per DPaW and EPBC Database Searches) in the Survey Area

¹Closest record to Survey Area based on DPaW 2015. Likely = Suitable habitat present and records less than 5 km from the Survey Area, Possible = Suitable habitat present and records between 5 km and 10 km from the Survey Area, and Unlikely = No suitable habitat present and/or records greater than 10 km from the Survey Area. En = Listed as Endangered under the EBPC Act, Vu = Listed as Vulnerable under the EBPC, Ce= Critically Endangered under the EBPC Act, P = Listed as Priority by the DPaW DRF = Declared Rare Flora as listed by the State.

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
DPaW, EPBC, NatureMap	Vulnerable	Threatened	<i>Acacia forrestiana</i>	Lateritic gravelly soils, clay loam over sandstone. Gullies, hill, breakaways.	10km	No	Unlikely
DPaW	Endangered	Threatened	<i>Acacia splendens</i>	White sand over clay, pale brown loam, cracked brown soil, gravel, laterite, ironstone. Slopes of breakaways, especially southern slopes, hills.	8.5km	No	Unlikely
DPaW, EPBC, NatureMap	Endangered	Threatened	<i>Andersonia gracilis</i>	White/grey sand, sandy clay, gravelly loam. Winter-wet areas near swamps	Last recorded on site in 2011	Yes	Likely
DPaW, EPBC, NatureMap	Vulnerable	Threatened	<i>Anigozanthos viridis</i> subsp. <i>terraspectans</i>	Grey sand, clay loam. Winter-wet depressions.	Last recorded on site in 2011	Yes	Likely
EPBC	Endangered	Threatened	<i>Caladenia huegelii</i>	Grey Brown sand, clay loam	>50km	No	Unlikely
DPaW, NatureMap	Vulnerable	Threatened	<i>Chamelaucium</i> sp. Cataby	Lateritic gravel, upper slope of breakaway	Unknown, last recorded in 1988	No	Unlikely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPAW					
EPBC	Endangered	Threatened	<i>Chamelaucium sp. Gingin</i>	Dry white/grey sand	>50km	No	Unlikely
EPBC	Endangered	Threatened	<i>Drakaea elastica</i>	Winter wet swamps, grey sand	20km	No	Unlikely
EPBC	Endangered	Threatened	<i>Eucalyptus absita</i>	White lateritic sand	14km	No	Unlikely
EPBC	Endangered	Threatened	<i>Eucalyptus balanites</i>	Sandy soils, lateritic gravel	>50km	No	Unlikely
EPBC	Endangered	Threatened	<i>Eucalyptus dolorosa</i>	Lateritic hillsides	13km	No	Unlikely
EPBC	Endangered	Threatened	<i>Eucalyptus impensa</i>	Lateritic hills, yellow sand	>50km	No	Unlikely
EPBC	Endangered	Threatened	<i>Eucalyptus leprophloia</i>	White or grey sand over laterite	50km	No	Unlikely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
DPaW, NatureMap	Vulnerable	Threatened	<i>Eleocharis keigheryi</i>	Clay, sandy loam. Emergent in freshwater: creeks, claypans.	6.2km	No	Unlikely
DPaW, EPBC, NatureMap	Endangered	Threatened	<i>Grevillea calliantha</i>	Grey or yellow sand over laterite, with gravel.	4.7km	No	Unlikely
DPaW, EPBC, NatureMap	Vulnerable	Threatened	<i>Hakea megalosperma</i>	Grey sand, loam. Lateritic hills & rocks.	1.8km	No	Unlikely
EPBC	Endangered	Threatened	<i>Hemiandra gardneri</i>	Grey or yellow sand	50km	No	Unlikely
EPBC	Endangered	Threatened	<i>Leucopogon obtectus</i>	Grey sand	50km	No	Unlikely
DPaW, EPBC	Endangered	Threatened	<i>Macarthuria keigheryi</i>	White or grey sand.	4km	Yes	Likely
DPaW, EPBC, NatureMap	Endangered	Threatened	<i>Paracaleana dixonii</i>	Grey sand over granite.	3.1km	No	Unlikely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
DPaW, NatureMap	Vulnerable	Threatened	<i>Ptychosema pusillum</i>	Sand. Rises	8.7km	Yes	Unlikely
EPBC	Endangered	Threatened	<i>Thelymitra dedmaniarum</i>	Granite	50km	No	Unlikely
EPBC	Endangered	Threatened	<i>Thelymitra stellata</i>	Sand, gravel, lateritic loam	18km	No	Unlikely
DPaW, NatureMap	-	P1	<i>Babingtonia delicata</i>	Moist/dry yellow/white/grey sand	On site	Yes	Found within Survey Area
DPaW	-	P1	<i>Baeckea</i> sp. Dandaragan	White sand over laterite	Unknown, last recorded in 2003	Yes	Unlikely
DPaW	-	P1	<i>Banksia prionophylla</i>	Grey sand over laterite with surface boulder. Rises.	14km	No	Unlikely
NatureMap	-	P1	<i>Grevillea synapheae</i> subsp. A Flora of Australia	Gravelly loam	13km	No	Unlikely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
DPaW, NatureMap	-	P1	<i>Grevillea synapheae</i> subsp. <i>minyulo</i>	Gravel, laterite.	3.2km	No	Unlikely
DPaW	-	P1	<i>Hypocalymma linifolium</i>	Sandy soil	20km	Yes	Unlikely
DPaW	-	P1	<i>Hypocalymma</i> sp. Dandaragan	Grey sand with lateritic pebbles	20km	No	Unlikely
NatureMap	-	P1	<i>Lasiopetalum</i> sp. Hill River	Lateritic gravel	Unknown	No	Unlikely
DPaW, NatureMap	-	P1	<i>Lyginia excelsa</i>	White /grey sand	On site	Yes	Found within Survey Area
DPaW, NatureMap	-	P2	<i>Anigozanthos humilis</i> subsp. Badgingarra	Grey-white sand, rich brown sandy loam, sandy clay, alluvial soils. Low plains, river-banks, winter-wet swamps.	5 km	Yes	Possible
DPaW, NatureMap	-	P2	<i>Arnocrinum gracillimum</i>	White, grey, yellow or lateritic sand.	1.2 km	Yes	Likely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
DPaW, NatureMap	-	P2	<i>Chordifex resemians</i>	Dry sand. Heath.	On site, last recorded, May 2016	Yes	Likely
DPaW, NatureMap	-	P2	<i>Cristonia biloba</i> subsp. pubescens	Grey sand over gravel. Loamy sand over laterite	7km	Yes	Possible
DPaW, NatureMap	-	P2	<i>Dampiera tephrea</i>	Sand, gravelly loam.	5.2km	Yes	Possible
DPaW, NatureMap	-	P2	<i>Desmocladus microcarpus</i>	Grey sandy soils	4.8km	Yes	Likely
DPaW, NatureMap	-	P2	<i>Eucalyptus abdita</i>	Laterite, sandy clay with gravel over laterite. Slopes, breakaways.	Last recorded on site in 2007	No	Unlikely
DPaW	-	P2	<i>Gastrolobium nudum</i>	Red-brown clay, brown loam, gravel, laterite, granite. Flats, slopes, hilltops, ridges, valleys, breakaways.	13km	No	Unlikely
DPaW	-	P2	<i>Hemigenia curvifolia</i>	Sandy soils.	20km	Yes	Unlikely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
DPaW, Naturemap	-	P2	<i>Hypocalymma</i> sp. Cataby	Grey sand.	6.1km	Yes	Possible
NatureMap	-	P2	<i>Stenanthemum sublineare</i>	White sand	Last recorded on site 2008	Yes	Likely
DPaW, NatureMap	-	P2	<i>Thelymitra pulcherrima</i>	Grey-brown sandy clay with some lateritic gravel	2.8km	Yes	Likely
DPaW	-	P3	<i>Acacia cummingiana</i>	Grey or yellow sand, lateritic gravel. Sandplains, lateritic breakaways.	19km	No	Unlikely
DPaW	-	P3	<i>Acacia epacantha</i>	Lateritic gravelly loam or clay.	10km	No	Unlikely
DPaW, NatureMap	-	P3	<i>Acacia plicata</i>	Loamy & clayey soils, often over sandstone or siltstone. Along drainage lines.	4.8 km	No	Unlikely
DPaW	-	P3	<i>Allocasuarina ramosissima</i>	Lateritic soils.	20km	No	Unlikely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
NatureMap	-	P3	<i>Babingtonia cherticola</i>	Grey gravel, sand over loam	10km	No	Unlikely
DPaW, NatureMap	-	P3	<i>Babingtonia urbana</i>	Winter wet depression	3.1km	Yes	Possible
DPaW	-	P3	<i>Banksia pteridifolia</i> subsp. <i>vernalis</i>	White/grey sand over laterite	20km	Yes	Unlikely
DPaW, NatureMap	-	P3	<i>Beaufortia bicolor</i>	White sand over laterite. Sandplains.	Last recorded on site in 1982	Yes	Likely
DPaW, NatureMap	-	P3	<i>Beaufortia eriocephala</i>	Lateritic sandy soils. Slopes.	On site	Yes	Found on site
DPaW	-	P3	<i>Conospermum scaposum</i>	White-grey sand, sandy clay. Low swampy areas, road verges.	0.5km	Yes	Likely
DPaW	-	P3	<i>Cryptandra</i> sp. Cowcowing	Deep yellow sands	>30km	No	Unlikely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
DPaW	-	P3	<i>Desmocladius nodatus</i>	Grey brown sand	8.2km	Unknown	Unlikely
NatureMap	-	P3	<i>Desmocladius virgatus</i>	White sand with lateritic gravel	1km	No	Unlikely
DPaW, NatureMap	-	P3	<i>Drosera marchantii</i> subsp. <i>prophylla</i>	Laterite-silica sand soils. Hilltops.	3km	No	Unlikely
DPaW, NatureMap	-	P3	<i>Gompholobium gairdnerianum</i>	White, cream or brown sandy clay, white sand over sandstone, brown or grey sand over laterite, gravel. Hill summits and slopes, ridges.	8km	No	Unlikely
DPaW, NatureMap	-	P3	<i>Grevillea florida</i>	Sand, sandy clay, gravel, laterite. Sandplain, slopes, road verges.	3.2km	Yes	Likely
DPaW	-	P3	<i>Grevillea tenuiloba</i>	Sand, clay loam. Granite outcrops.	>20km	No	Unlikely
DPaW, NatureMap	-	P3	<i>Grevillea thyrsoides</i> subsp. <i>thyrsoides</i>	Sand, clay loam. Granite outcrops.	5.1km	No	Unlikely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
DPaW, NatureMap	-	P3	<i>Guichenotia alba</i>	Sandy or gravelly soils. Low-lying flats, depressions.	Last recorded on site in 1991	Yes	Likely
NatureMap	-	P3	<i>Hakea longiflora</i>	White sand, gravel, laterite	10km	No	Unlikely
DPaW	-	P3	<i>Hibbertia spicata</i> subsp. <i>leptotheca</i>	Sand. Near-coastal limestone ridges, outcrops & cliffs.	14km	No	Unlikely
NatureMap	-	P3	<i>Hopkinsia anoectocolea</i>	White to grey sand, often saline	<5km	No	Unlikely
DPaW, NatureMap	-	P3	<i>Hypocalymma tetrapterum</i>	Grey sand, loam, lateritic gravel. Riverbanks, breakaways.	3.5km	Yes	Likely
DPaW, NatureMap	-	P3	<i>Jacksonia carduacea</i>	Grey sand, sandy clay.	8.4km	Yes	Likely
DPaW	-	P3	<i>Lechenaultia galactites</i>	Yellow sand, clay, gravel, laterite. Sandplains.	20km	Yes	Unlikely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
DPaW, NatureMap	-	P3	<i>Lepidobolus quadratus</i>	Lateritic gravel, grey/white sand.	1.9km	Yes	Likely
DPaW	-	P3	<i>Meionectes tenuifolia</i>	Swamps and wetland margins	10km	Yes	Possible
DPaW, NatureMap	-	P3	<i>Podotheca pritzelii</i>	Sand. Sand ridges in salt flats.	9.1km	No	Unlikely
DPaW, NatureMap	-	P3	<i>Schoenus pennisetis</i>	Grey or peaty sand, sandy clay. Swamps, winter-wet depressions.	On site, last recorded in 2007	Yes	Likely
DPaW, NatureMap	-	P3	<i>Stylidium hymenocraspedum</i>	Sand over laterite. Hillslopes. Heath, Banksia and Eucalyptus low open woodland.	Last recorded on site in 2013	Yes	Likely
DPaW, NatureMap	-	P3	<i>Stylidium periscelanthum</i>	Loamy clay, moist soils pockets. Wet flats, low granitic hills.	7.2km	No	Unlikely
NatureMap	-	P3	<i>Synaphea endothrix</i>	Gravelly loam sand, lateritic rises	8km	No	Unlikely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
DPaW, NatureMap	-	P3	<i>Tetratheca angulata</i>	Sandy to gravelly laterite soils. Low hill crests, breakaways with massive laterite boulders.	0.5km	No	Unlikely
DPaW, NatureMap	-	P4	<i>Asterolasia drummondii</i>	Lateritic gravel & sand or loam. Lateritic hills & sandplains, breakaways.	5.4km	No	Unlikely
DPaW, NatureMap	-	P4	<i>Anigozanthos humilis</i> subsp. <i>chrysanthus</i>	Grey or yellow sand.	10 km	Yes	Possible
NatureMap	-	P4	<i>Boronia tenuis</i>	Lateritic stony soils	<5km	No	Unlikely
DPaW, NatureMap	-	P4	<i>Chordifex chaunocoleus</i>	Grey, siliceous or peaty sand, well to poorly drained. Drainage lines, depressions.	2.7km	Yes	Likely
DPaW, NatureMap	-	P4	<i>Conostephium magnum</i>	White-grey sands sometimes associated with laterite gravels. Sand dunes, swampland, disturbed roadside, drainage channels, open woodland.	On site	Yes	Found on site
DPaW	-	P4	<i>Desmocladius elongatus</i>	White or grey sand. Dry kwongan.	1.9km	Yes	Likely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
NatureMap	-	P4	<i>Desmocladius microcarpus</i>	Grey sandy soils	5km	Yes	Likely
DPaW, NatureMap	-	P4	<i>Eucalyptus x carnabyi</i>	Grey sand, sandy loam. Lateritic ridges.	5.4km	Yes	Possibly
DPaW, NatureMap	-	P4	<i>Eucalyptus macrocarpa</i> subsp. <i>elechantha</i>	White or grey sand over laterite. Hillslopes, ridges, sandplains.	On site	Yes	Found on site
DPaW, NatureMap	-	P4	<i>Grevillea drummondii</i>	Lateritic soils (sandy clay, gravel, loam, sand), sand over granite. Rocky hillsides, boulders, granite outcrops.	5.4km	No	Unlikely
DPaW, NatureMap	-	P4	<i>Grevillea saccata</i>	Yellow or brown sand, often with lateritic gravel.	Last recorded on site 1991	Yes	Likely
NatureMap	-	P4	<i>Hibbertia helianthemoides</i>	Sandy loam	On site, last recording unknown	Yes	Likely
DPaW, Naturemap	-	P4	<i>Hypolaena robusta</i>	White sand. Sandplains.	On site, last recorded in 1988	Yes	Likely

SOURCE	CONSERVATION STATUS		SPECIES	HABITAT INFORMATION	DISTANCE TO NEAREST RECORD	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW					
DPaW, NatureMap	-	P4	<i>Schoenus griffinianus</i>	White sand.	On site, last recorded 2012	Yes	Likely
Naturemap	-	P4	<i>Schoenus natans</i>	Winter wet depressions	3km	Yes	Likely
DPaW, NatureMap	-	P4	<i>Stylidium aeonoides</i>	Sandy clay loam over laterite. Hillsides and breakaways. Low heath, open woodland.	2.2km	No	Unlikely
NatureMap	-	P4	<i>Thelymitra apiculata</i>	Grey sand over lateritic gravel	3km	No	Unlikely
DPaW, NatureMap	-	P4	<i>Thysanotus glaucus</i>	White, grey or yellow sand, sandy gravel.	3.2km	Yes	Likely
DPaW, NatureMap	-	P4	<i>Verticordia lindleyi</i> subsp. lindleyi	Sand, sandy clay. Winter-wet depressions.	6.7km	Yes	Possibly

APPENDIX G

Flora Inventory

Family	Species
Apiaceae	<i>Actinotus leucocephalus</i>
Cyperaceae	<i>Tricostularia neesii</i>
Dilleniaceae	<i>Hibbertia huegelii</i>
	<i>Hibbertia sericosepala</i>
Ecdeiocolaceae	<i>Ecdeiocola monostachya</i>
Ericaceae	<i>Astroloma xerophyllum</i>
	<i>Conostephium ?minus</i>
	<i>Conostephium magnum</i> (P4)
	<i>Croninia kingiana</i>
	<i>Leucopogon oliganthus</i>
Fabaceae	<i>Gompholobium aristatum</i>
	<i>Jacksonia</i> sp
Haemodoraceae	<i>Anigozanthos humilis</i> subsp.humilis
Hemerocallidaceae	<i>Arnocrinum preissii</i>
Loranthaceae	<i>Nuytsia floribunda</i>
Myrtaceae	<i>Babingtonia camphorosmae</i>
	<i>Babingtonia delicata</i> (P1)
	<i>Beaufortia elegans</i>
	<i>Beaufortia eriocephala</i> (P3)
	<i>Beaufortia squarrosa</i>
	<i>Corymbia calophylla</i>
	<i>Darwinia pinifolia</i>
	<i>Eucalyptus camaldulensis</i>
	<i>Eucalyptus gittinsii</i> subsp.illucida
	<i>Eucalyptus macrocarpa</i> subsp.elachantha (P4)
	<i>Eucalyptus rudis</i>
	<i>Eucalyptus todtiana</i>
	<i>Eremaea beaufortoides</i> var. beaufortoides
	<i>Eremaea pauciflora</i> var. pauciflora
	<i>Hypocalymma angustifolium</i>
	<i>Melaleuca raphiophylla</i>
	<i>Regelia</i> sp
	<i>Scholtzia involucrata</i>
	<i>Verticordia densiflora</i> var.densiflora
Proteaceae	<i>Adenanthos cygnorum</i>
	<i>Banksia attenuata</i>
	<i>Banksia menziesii</i>
	<i>Hakea incrassata</i>
	<i>Petrophile macrostachya</i>
	<i>Synaphea spinulosa</i> subsp.spinulosa
Restionaceae	<i>Chordifex sinuosus</i>
	<i>Lepidobolus preissianus</i>
	<i>Lyginia barbata</i>

Family	Species
	<i>Lyginia excelsa</i> (P1)
	<i>Lyginia imberbis</i>
	<i>Mesomelaena pseudostygia</i>
	<i>Schoenus brevisetis</i>
	<i>Schoenus caespititius</i>
	<i>Schoenus clandestinus</i>
	<i>Schoenus pleiostemoneus</i>
	<i>Schoenus subfascicularis</i>
Stylidiaceae	<i>Stylidium rigidulum</i>
	<i>Stylidium dichotomum</i>
	<i>Stylidium piliferum</i>
Xanthorrhoeaceae	<i>Xanthorrhoea preissii</i>

APPENDIX H

Priority Flora Locations

Taxon	Easting	Northing	# of individuals
<i>Babingtonia delicata</i> (P1)	355874	6605580	5
	355876	6606270	2
	355035	6606210	1
	355036	6606150	3
	355046	6606240	1
<i>Lyginia excelsa</i> (P1)	351953	6601770	2
	351951	6605280	10
	351950	6605320	3
	353070	6606450	10
	353077	6606500	5
	352794	6601830	1
	353640	6605140	1
	353634	6605080	1
	353634	6604940	5
	353633	6604930	1
	353631	6604910	4
	353632	6604890	5
	353636	6604860	2
	353632	6604820	3
	353634	6604740	3
	353632	6604730	5
	353632	6604690	5
	353635	6604660	10
	353633	6604610	3
	353631	6604580	6
	353632	6604520	2
	353634	6604310	1
	353906	6604920	5
	353908	6604870	2
	354165	6604800	3
	355026	6605460	5
	355036	6605420	10
	355032	6605260	5
	355034	6605160	3
	355036	6604920	10
	355042	6604600	3
	355034	6604580	10
	355032	6604520	2
	355030	6604240	1
	354749	6605240	1
	354757	6605180	1
	354760	6604810	2
	354754	6604720	5

	354756	6604670	2
	354753	6604610	2
	354186	660363	1
	355042	6604790	1
	354747	6604790	12
	354752	6604640	6
	354754	6604580	15
<i>Beaufortia eriocephala</i> (P3)	335035	6606580	10
	354754	6606489	8
<i>Conostephium magnum</i> (P4)	352789	6604770	1
	352803	6604430	1
	352792	6601870	1
	353632	6604140	1
	353633	6604010	1
	353915	6604150	3
	354472	6604010	2
	354469	6603390	3
	354195	6607360	1
	354199	6607440	3
	353874	6607470	2
	353916	6607480	4
	353915	6607450	10
	353906	6607430	3
	355878	6604290	10
	355875	6604300	4
	355873	6604420	2
	355874	6604450	2
	355874	6604470	2
	355868	6604520	1
	355872	6604580	2
	355872	6604640	1
	355038	6604500	2
	355033	6604410	10
	355037	6604300	1
	355031	6604140	2
	355037	6604130	3
	354755	6605190	1
	354753	6604510	3
	355597	6094818	3
	355598	6604747	4
	355316	6604299	3
	355310	6604458	4
	355042	6604790	5
	354747	6604790	3

<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i> (P4)	354752	6604640	1
	354754	6604580	2
	355046	6606240	2
	351661	6602940	1
	351681	6602970	1
	351669	6603040	1
	351682	6604420	2
	351677	6604770	1
	351673	6604800	8
	351671	6605070	1
	351670	6605050	1
	351678	6605030	2
	351949	6605150	1
	351954	6605180	2
	352792	6603760	1
	352786	6602740	1
	353636	6603120	1
	355873	6607050	3
	355875	6606870	1

APPENDIX I

Vegetation Association Photos

BW 10%



Prt



Xp



Creek



Rehab



WP58



Note:

No Photos were taken of Vegetation Associations BW30%, Cc, EM, Ecam or Paddock