

**Appendix A: Results of Search of the Department of the Environment,  
Database with Regard to Environmental Matters of National  
Significance (DoE 2016a)**

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# EPBC Act Protected Matters Report

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

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

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

Report created: 14/07/16 13:59:24

[Summary](#)

[Details](#)

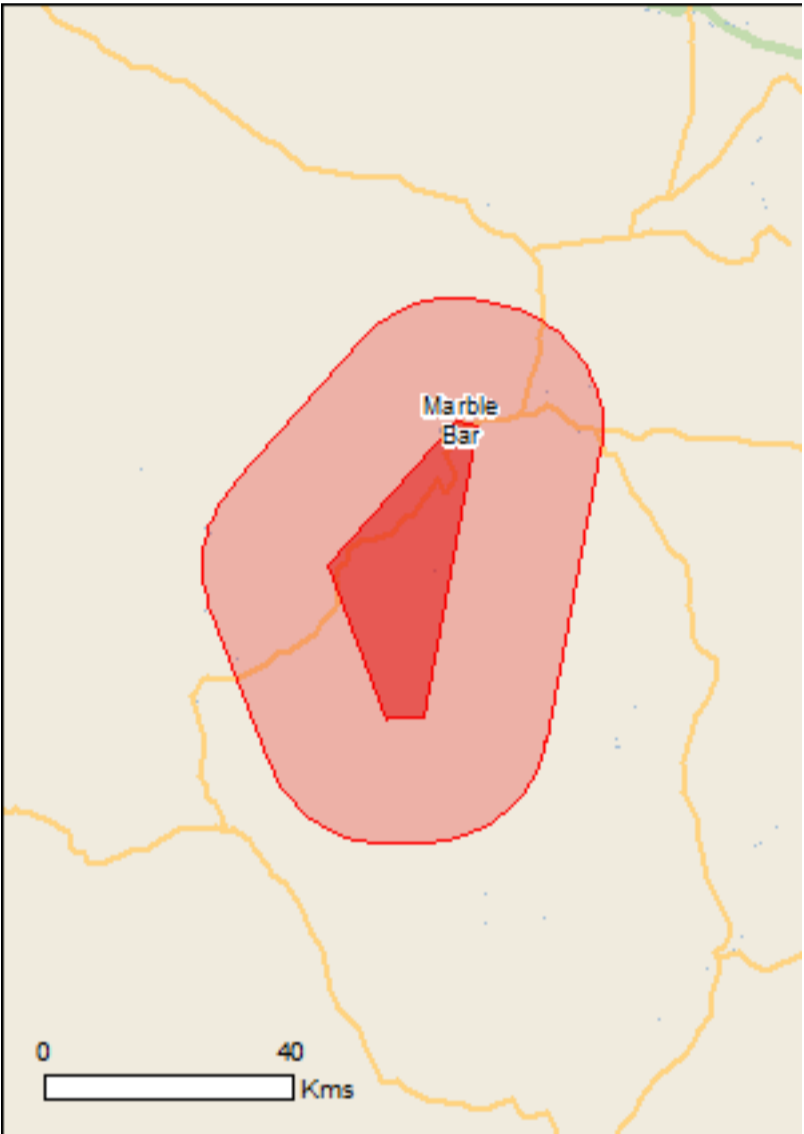
[Matters of NES](#)

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

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[Acknowledgements](#)



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

[Buffer: 20.0Km](#)



# 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](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance:</a>	None
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	None
<a href="#">Listed Threatened Ecological Communities:</a>	None
<a href="#">Listed Threatened Species:</a>	7
<a href="#">Listed Migratory Species:</a>	7

## 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.

<a href="#">Commonwealth Land:</a>	1
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	12
<a href="#">Whales and Other Cetaceans:</a>	None
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Commonwealth Reserves Marine:</a>	None

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	None
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	11
<a href="#">Nationally Important Wetlands:</a>	None
<a href="#">Key Ecological Features (Marine)</a>	None

# Details

## Matters of National Environmental Significance

Listed Threatened Species		[ Resource Information ]
Name	Status	Type of Presence
Birds		
<a href="#">Pezoporus occidentalis</a> Night Parrot [59350]	Endangered	Species or species habitat likely to occur within area
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
Mammals		
<a href="#">Dasyurus hallucatus</a> Northern Quoll, Digul [331]	Endangered	Species or species habitat likely to occur within area
<a href="#">Macroderma gigas</a> Ghost Bat [174]	Vulnerable	Breeding known to occur within area
<a href="#">Macrotis lagotis</a> Greater Bilby [282]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Rhinonictoris aurantia (Pilbara form)</a> Pilbara Leaf-nosed Bat [82790]	Vulnerable	Roosting known to occur within area
Reptiles		
<a href="#">Liasis olivaceus barroni</a> Olive Python (Pilbara subspecies) [66699]	Vulnerable	Species or species habitat likely to 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		
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat known to occur

Name	Threatened	Type of Presence within area
Migratory Wetlands Species		
<a href="#">Charadrius veredus</a>		
Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
<a href="#">Glareola maldivarum</a>		
Oriental Pratincole [840]		Species or species habitat may occur within area
<a href="#">Pandion haliaetus</a>		
Osprey [952]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land	<a href="#">[ Resource Information ]</a>
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The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name
Commonwealth Land -

Listed Marine Species	<a href="#">[ Resource Information ]</a>
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\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Birds		
<a href="#">Apus pacificus</a>		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardea alba</a>		
Great Egret, White Egret [59541]		Species or species habitat known to occur within area
<a href="#">Ardea ibis</a>		
Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#">Charadrius veredus</a>		
Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
<a href="#">Glareola maldivarum</a>		
Oriental Pratincole [840]		Species or species habitat may occur within area
<a href="#">Haliaeetus leucogaster</a>		
White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
<a href="#">Hirundo rustica</a>		
Barn Swallow [662]		Species or species habitat may occur within area
<a href="#">Merops ornatus</a>		
Rainbow Bee-eater [670]		Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a>		
Grey Wagtail [642]		Species or species habitat may occur within

Name	Threatened	Type of Presence
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		area  Species or species habitat known to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat likely to occur within area
<a href="#">Rostratula benghalensis (sensu lato)</a> Painted Snipe [889]	Endangered*	Species or species habitat may occur within area

### Extra Information

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
Mammals		
Camelus dromedarius Dromedary, Camel [7]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Equus asinus Donkey, Ass [4]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		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
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur

Name	Status	Type of Presence within area
Plants		
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat likely to occur within area
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		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.

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

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

- migratory and
- marine

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

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

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

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

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

# Coordinates

-21.571295 119.631232,-21.365536 119.546088,-21.171012 119.731483,-21.178696 119.765815,-21.570018 119.686164,-21.570018 119.632606,-21.571295 119.631232

# Acknowledgements

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

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

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

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

## Appendix B: Definitions, Categories and Criteria for Threatened Ecological Communities and Priority Ecological Communities (DEC 2013)

### 1. GENERAL DEFINITIONS

**Ecological Community:** A naturally occurring biological assemblage that occurs in a particular type of habitat.

Note: The scale at which ecological communities are defined will often depend on the level of detail in the information source, therefore no particular scale is specified.

A **threatened ecological community** (TEC) is one which is found to fit into one of the following categories; “presumed totally destroyed”, “critically endangered”, “endangered” or “vulnerable”.

Possible threatened ecological communities that do not meet survey criteria are added to DEC’s Priority Ecological Community Lists under Priorities 1, 2 and 3. Ecological Communities that are adequately known, 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.

An **assemblage** is a defined group of biological entities.

**Habitat** is defined as the areas in which an organism and/or assemblage of organisms lives. It includes the abiotic factors (e.g. substrate and topography), and the biotic factors.

**Occurrence:** a discrete example of an ecological community, separated from other examples of the same community by more than 20 metres of a different ecological community, an artificial surface or a totally destroyed community.

By ensuring that every discrete occurrence is recognised and recorded future changes in status can be readily monitored.

**Adequately Surveyed** is defined as follows:

“An ecological community that has been searched for thoroughly in most likely habitats, by relevant experts.”

**Community structure** is defined as follows:

“The spatial organisation, construction and arrangement of the biological elements comprising a biological assemblage” (e.g. *Eucalyptus salmonophloia* woodland over scattered small shrubs over dense herbs; structure in a faunal assemblage could refer to trophic structure, e.g. dominance by feeders on detritus as distinct from feeders on live plants).

**Definitions of Modification and Destruction** of an ecological community:

**Modification:** “changes to some or all of ecological processes (including abiotic processes such as hydrology), species composition and community structure as a direct or indirect

result of human activities. The level of damage involved could be ameliorated naturally or by human intervention.”

**Destruction:** “modification such that reestablishment of ecological processes, species composition and community structure within the range of variability exhibited by the original community is unlikely within the foreseeable future even with positive human intervention.”

**Note:** Modification and destruction are difficult concepts to quantify, and their application will be determined by scientific judgement. Examples of modification and total destruction are cited below:

Modification of ecological processes: The hydrology of Toolibin Lake has been altered by clearing of the catchment such that death of some of the original flora has occurred due to dependence on fresh water. The system may be bought back to a semblance of the original state by redirecting saline runoff and pumping waters of the rising underground watertable away to restore the hydrological balance. Total destruction of downstream lakes has occurred due to hydrology being altered to the point that few of the original flora or fauna species are able to tolerate the level of salinity and/or water logging.

Modification of structure: The understorey of a plant community may be altered by weed invasion due to nutrient enrichment by addition of fertiliser. Should the additional nutrients be removed from the system the balance may be restored, and the original plant species better able to compete. Total destruction may occur if additional nutrients continue to be added to the system causing the understorey to be completely replaced by weed species, and death of overstorey species due to inability to tolerate high nutrient levels.

Modification of species composition: Pollution may cause alteration of the invertebrate species present in a freshwater lake. Removal of pollutants may allow the return of the original inhabitant species. Addition of residual highly toxic substances may cause permanent changes to water quality, and total destruction of the community.

**Threatening processes** are defined as follows:

“Any process or activity that threatens to destroy or significantly modify the ecological community and/or affect the continuing evolutionary processes within any ecological community.”

Examples of some of the continuing threatening processes in Western Australia include: general pollution; competition, predation and change induced in ecological communities as a result of introduced animals; competition and displacement of native plants by introduced species; hydrological changes; inappropriate fire regimes; diseases resulting from introduced microorganisms; direct human exploitation and disturbance of ecological communities.

**Restoration** is defined as returning an ecological community to its pre-disturbance or natural state in terms of abiotic conditions, community structure and species composition.

**Rehabilitation** is defined as the re-establishment of ecological attributes in a damaged ecological community although the community will remain modified.

## 2. DEFINITIONS AND CRITERIA FOR PRESUMED TOTALLY DESTROYED, CRITICALLY ENDANGERED, ENDANGERED AND VULNERABLE ECOLOGICAL COMMUNITIES

### Presumed Totally Destroyed (PD)

An ecological community that has been adequately searched for but for which no representative occurrences have been located. The community has been found to be totally destroyed or so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure in the foreseeable future.

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 of known or likely habitats **or**
- B) All occurrences recorded within the last 50 years have since been destroyed

### Critically Endangered (CR)

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated.

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 10 years);
  - ii) modification throughout its range is continuing such that in the immediate future (within approximately 10 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 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 that may be capable of being rehabilitated if such work begins in the immediate future (within approximately 10 years).

### Endangered (EN)

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or was originally of limited distribution and is in danger of significant modification throughout its range or severe modification or destruction over most of its range in the near future.

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 geographic range, and/or total area occupied, and/or number of discrete occurrences have been reduced by at least 70% since European settlement **and either or both** of the following apply (i or ii):
- i) the estimated 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 future (within approximately 20 years);
  - ii) modification throughout its range is continuing such that in the short term future (within approximately 20 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 20 years);
  - ii) there are few occurrences, each of which is small and/or isolated and all or most occurrences are very vulnerable to known threatening processes;
  - iii) there may be many occurrences but total area is small and all or most occurrences are small and/or isolated and very vulnerable to known threatening processes.
- C) The ecological community exists only as very modified occurrences that may be capable of being substantially restored or rehabilitated if such work begins in the short-term future (within approximately 20 years).

**Vulnerable (VU)**

An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range.

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 or significant modification in the medium (within approximately 50 years) 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 that are likely to be capable of being substantially restored or rehabilitated.
- B) The ecological community may already be modified 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 be still 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.

**3. DEFINITIONS AND CRITERIA FOR PRIORITY ECOLOGICAL COMMUNITIES PRIORITY ECOLOGICAL COMMUNITY LIST**

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. 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 that are known from very few occurrences with a very restricted distribution (generally  $\leq 5$  occurrences or a total area of  $\leq 100$ ha). Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist. May include communities with occurrences on protected lands. 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 occurrences with a restricted distribution (generally  $\leq 10$  occurrences or a total area of  $\leq 200$ ha). At least some occurrences are not believed to be under immediate threat (within approximately 10 years) 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 with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat (within approximately 10 years), or;
- (iii) Communities made up of large, and/or widespread occurrences, that may or may 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, inappropriate fire regimes, clearing, hydrological change etc.

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:

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.

- (i) 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.
- (ii) 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 a higher threat category.
- (iii) 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.

Current as of January 2013

## Appendix C: Conservation Codes for Western Australian Flora and Fauna (DPaW 2015c)

Specially protected fauna or flora are species\* which have been adequately searched for and are deemed to be, in the wild, either rare, at risk of extinction, or otherwise in need of special protection, and have been gazetted as such.

Categories of specially protected fauna and flora are:

### **T Threatened species**

Published as Specially Protected under the *Wildlife Conservation Act* 1950, and listed under Schedules 1 to 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora (which may also be referred to as Declared Rare Flora).

Threatened fauna is that subset of 'Specially Protected Fauna' declared to be 'likely to become extinct' pursuant to section 14(4) of the Wildlife Conservation Act.

Threatened flora is flora that has been declared to be 'likely to become extinct or is rare, or otherwise in need of special protection', pursuant to section 23F(2) of the Wildlife Conservation Act.

The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.

**CR** Critically Endangered Species: Threatened species considered to be facing an extremely high risk of extinction in the wild. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

**EN** Endangered Species: Threatened species considered to be facing a very high risk of extinction in the wild. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

**VU** Vulnerable Species: Threatened species considered to be facing a high risk of extinction in the wild. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

**EX Presumed extinct species**

Listed as Specially Protected under the *Wildlife Conservation Act 1950*, published under Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora (which may also be referred to as Declared Rare Flora).

Species which have been adequately searched for and there is no reasonable doubt that the last individual has died, and have been gazetted as such.

**IA Migratory birds protected under an international agreement**

Listed as Specially Protected under the Wildlife Conservation Act 1950, listed under Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice.

Birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), relating to the protection of migratory birds.

**CD Conservation dependent fauna**

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 6 of the Wildlife Conservation (Specially Protected Fauna) Notice.

**OS Other specially protected fauna**

Fauna otherwise in need of special protection to ensure their conservation. Published as Specially Protected under the Wildlife Conservation Act 1950, in Schedule 7 of the Wildlife Conservation (Specially Protected Fauna) Notice.

**P Priority species**

Possibly threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened flora or fauna.

Species that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened species or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.

Assessment of Priority codes is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

**1: Priority One: Poorly-known species**

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.

**2: Priority Two: Poorly-known species**

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.

**3: Priority Three: Poorly-known species**

Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

**4: Priority Four: Rare, Near Threatened and other species in need of monitoring**

(a) Rare. Species 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 species are usually represented on conservation lands.

(b) Near Threatened. Species 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) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

\*Species includes all taxa (plural of taxon - a classificatory group of any taxonomic rank, e.g. a family, genus, species or any infraspecific category i.e. subspecies, variety or forma).

Current as of 11th November 2015

## Appendix D: Environmental Weed Strategy - Criteria for the Assessment and Rating of Weeds in Terms of their Environmental Impact on Biodiversity (CALM 1999)

### ENVIRONMENTAL WEEDS RATING

- **Invasiveness**- ability to invade bushland in good to excellent condition or ability to invade waterways (Score as yes or no).
- **Distribution** – wide current or potential distribution including consideration of known history of wide spread distribution elsewhere in the world (Score as yes or no).
- **Environmental Impacts** – ability to change the structure, composition and function of ecosystems; in particular an ability to form a monoculture in a vegetation community (Score as yes or no).

#### The Rating System used in the Environmental Weed Strategy for Western Australia

<b>High</b>	A weed species would have to score yes for all three criteria. Rating a weed species as high would indicate prioritising this weed for control and/or research.
<b>Moderate</b>	A weed species would have to score yes for two of the above criteria. Rating a weed species as moderate would indicate that control or research effort should be directed to it if funds are available; however it should be monitored (possibly a reasonably high level of monitoring).
<b>Mild</b>	A weed species scoring one of the criteria. A mild rating would indicate monitoring of the weed and control where appropriate.
<b>Low</b>	A weed species would score none of the criteria. A low ranking would mean that this species would require a low level of monitoring.

**Appendix E: Vegetation Condition Scale for the Eremaean and Northern Botanical Provinces (adapted from Keighery (1994), for the Pilbara Biological Survey (McKenzie *et al.* (2009))**

Condition Ranking	Description
E (Excellent)	Pristine or nearly so, no obvious signs of damage caused by human activities since European settlement.
VG (Very Good)	Some relatively slight signs of damage caused by human activities since European settlement. For example, some signs of damage to tree trunks caused by repeated fire, the presence of some relatively non-aggressive weeds, or occasional vehicle tracks.
G (Good)	More obvious signs of damage caused by human activities since European settlement, including some obvious impact on the vegetation structure such as that caused by low levels of grazing or slightly aggressive weeds.
P (Poor)	Still retains basic vegetation structure or ability to regenerate to it after very obvious impacts of human activities since European settlement, such as grazing, partial clearing, frequent fires or aggressive weeds.
VP (Very Poor)	Severely impacted by grazing, very frequent fires, clearing or a combination of these activities. Scope for some regeneration but not to a state approaching good condition without intensive management. Usually with a number of weed species present including very aggressive species.
D (Completely Degraded)	Areas that are completely or almost completely without native species in the structure of their vegetation; i.e. areas that are cleared or 'parkland cleared' with their flora comprising of weed or crop species with isolated native trees or shrubs.

## Appendix F: Vascular Plant Taxa Amalgamated in or Omitted From the Floristic Analysis

Description	Taxon	Reasoning
Omitted Taxa	<i>Abutilon</i> sp. (unidentified)	Taxonomy unclear
	<i>Acacia ampliceps</i> x <i>sclerosperma</i> subsp. <i>sclerosperma</i>	Known hybrid
	<i>Acacia ancistrocarpa</i> x <i>tumida</i> var. <i>pilbarensis</i>	Putative hybrid
	<i>Acacia arida</i> (variant?)	Likely to be a hybrid
	<i>Acacia eriopoda</i> x <i>trachycarpa</i>	Known hybrid
	<i>Acacia</i> ? <i>eriopoda</i>	Taxonomy unclear
	<i>Acacia</i> ? <i>holosericea</i>	Taxonomy unclear
	<i>Acacia</i> ? <i>hilliana</i> x <i>stellaticeps</i>	Known hybrid
	<i>Acacia monticola</i> x	Putative hybrid
	<i>Acacia monticola</i> x <i>trachycarpa</i>	Known hybrid
	<i>Acacia monticola</i> x <i>tumida</i> var. <i>pilbarensis</i>	Known hybrid
	<i>Acacia sphaerostachya</i>	Known hybrid
	<i>Acacia trachycarpa</i> x <i>tumida</i> var. <i>pilbarensis</i>	Known hybrid
	<i>Acacia trachycarpa</i> x?	Putative hybrid
	<i>Acacia tumida</i> var. <i>pilbarensis</i> x ? <i>ancistrocarpa</i>	Putative hybrid
	<i>Acacia</i> ? <i>tumida</i> x	Putative hybrid
	<i>Acacia</i> sp. (hybrid)	Putative hybrid
	<i>Acacia</i> sp. indet	Taxonomy unclear
	<i>Amyema preissii</i>	Parasitic, random occurrence
	<i>Amyema sanguinea</i> var. <i>sanguinea</i>	Parasitic, random occurrence
	<i>Amyema</i> ? <i>sanguinea</i> var. <i>sanguinea</i>	Parasitic, random occurrence
	? <i>Bonamia</i> sp.	Taxonomy unclear
	<i>Cheilanthes brownii</i>	Geophyte perennial
	<i>Cheilanthes</i> ? <i>lasiophylla</i>	Geophyte perennial
	<i>Cheilanthes sieberi</i> subsp. <i>pseudovellea</i>	Geophyte perennial
	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	Geophyte perennial
	<i>Cheilanthes</i> sp.	Geophyte perennial
	? <i>Chrysopogon fallax</i>	Taxonomy unclear
	<i>Corchorus</i> sp. (unidentified)	Taxonomy unclear
	<i>Crotalaria novae-hollandiae</i> subsp. <i>novae-hollandiae</i>	Short-lived perennial, occurring in recently burnt areas only
	? <i>Crotalaria</i> sp.	Taxonomy unclear
	<i>Cullen martinii</i>	Short-lived perennial, occurring in recently burnt areas only
	<i>Cullen pogonocarpum</i>	Short-lived perennial, occurring in recently burnt areas only
	? <i>Cyperus difformis</i>	Taxonomy unclear
	<i>Cyperus</i> ? <i>iria</i>	Taxonomy unclear
	<i>Cyperus pulchellus</i>	Geophyte perennial
	<i>Eragrostis</i> sp.	Taxonomy unclear
	<i>Eriachne</i> ? <i>helmsii</i>	Taxonomy unclear

Description	Taxon	Reasoning
Omitted Taxa cont.	<i>Fimbristylis dichotoma</i>	Geophyte perennial
	<i>Gomphrena</i> sp. (inadequate material)	Taxonomy unclear
	<i>Heliotropium skeleton</i>	Short-lived perennial, occurring in recently burnt areas only
	<i>Heliotropium</i> sp.	Taxonomy unclear
	? <i>Hibiscus</i> sp.	Taxonomy unclear
	? <i>Seringia</i> sp.	Taxonomy unclear
	? <i>Maireana</i> sp.	Taxonomy unclear
	<i>Marsilea hirsuta</i>	Geophyte perennial
	? <i>Mollugo molluginea</i>	Taxonomy unclear
	? <i>Pluchea rubelliflora</i>	Taxonomy unclear
	<i>Pterocaulon</i> ? <i>serrulatum</i>	Taxonomy unclear
	<i>Pterocaulon</i> sp.	Taxonomy unclear
	<i>Ptilotus nobilis</i> subsp. <i>nobilis</i>	Geophyte perennial
	? <i>Schoenoplectus laevis</i>	Taxonomy unclear
	? <i>Sclerolaena</i> sp.	Taxonomy unclear
	<i>Senna artemisioides</i> subsp. <i>helmsii</i> x <i>oligophylla</i>	Putative hybrid
	<i>Senna artemisioides</i> subsp. <i>oligophylla</i> x ? <i>symonii</i>	Putative hybrid
	<i>Senna artemisioides</i> subsp. <i>oligophylla</i> x ?	Putative hybrid
	<i>Senna glutinosa</i> subsp. x <i>luerssenii</i>	Known hybrid
	<i>Senna</i> ? <i>glutinosa</i> hybrid	Putative hybrid
	<i>Senna notabilis</i>	Short-lived perennial, generally occurring in recently burnt areas only
	<i>Senna symonii</i> ?x	Putative hybrid
	<i>Sida</i> ? <i>arenicola</i>	Taxonomy unclear
	<i>Sida</i> sp. (unidentified)	Taxonomy unclear
	<i>Stemodia</i> sp.	Taxonomy unclear
	<i>Streptoglossa</i> ? <i>bubakii</i>	Taxonomy unclear
	<i>Streptoglossa</i> ? <i>odora</i>	Taxonomy unclear
	<i>Streptoglossa</i> sp.	Taxonomy unclear
	<i>Swainsona formosa</i>	Short-lived perennial, occurring in recently burnt areas only
	<i>Tephrosia stipuligera</i>	Short-lived perennial, occurring in recently burnt areas only
	<i>Tribulus hirsutus</i>	Short-lived perennial, occurring in recently burnt areas only
	<i>Tribulus platypterus</i>	Short-lived perennial, occurring in recently burnt areas only
	<i>Tribulus</i> sp. long-styled eichlerianus (A.S. George 10666)	Short-lived perennial, occurring in recently burnt areas only
	<i>Trichodesma zeylanicum</i>	Short-lived perennial, occurring in recently burnt areas only
	<i>Triumfetta clementii</i>	Short-lived perennial, occurring in recently burnt areas only
	<i>Velleia connata</i>	Short-lived perennial, occurring in recently burnt areas only
	<i>Zornia albiflora</i>	Geophyte perennial

Description	Taxon	Reasoning
Omitted Taxa cont.	<i>Zornia muelleriana</i> subsp. <i>congesta</i>	Geophyte perennial
Amalgamated Taxa	<i>Abutilon</i> ? <i>lepidum</i>	Amalgamated with <i>Abutilon lepidum</i>
	<i>Acacia bivenosa</i> x <i>sclerosperma</i> subsp. <i>sclerosperma</i>	Known hybrid
	<i>Acacia colei</i> var. <i>colei</i>	Amalgamated with <i>Acacia colei</i> – taxonomy unclear in the field
	<i>Acacia pyrifolia</i> var. <i>morrisonii</i>	Amalgamated with <i>Acacia pyrifolia</i> var. <i>pyrifolia</i> – unlikely to be <i>Acacia pyrifolia</i> var. <i>morrisonii</i> , more likely to be a non-pruinose variant of <i>Acacia pyrifolia</i> var. <i>pyrifolia</i>
	<i>Bonamia</i> ? <i>alatisemina</i>	Amalgamated with <i>Bonamia alatisemina</i>
	<i>Bonamia</i> ? <i>erecta</i>	Amalgamated with <i>Bonamia erecta</i>
	<i>Clerodendrum floribundum</i> var. <i>angustifolium</i> ; <i>Clerodendrum floribundum</i> var. <i>floribundum</i>	Amalgamated with <i>Clerodendrum floribundum</i> – taxonomy often unclear in the field, no correlation between variants and VTs
	<i>Clerodendrum tomentosum</i> var. <i>lanceolatum</i> ; <i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	Amalgamated with <i>Clerodendrum tomentosum</i> – taxonomy often unclear in the field, no correlation between variants and VTs
	<i>Corchorus</i> ? <i>sidoides</i> subsp. <i>sidoides</i>	Amalgamated with <i>Corchorus sidoides</i> subsp. <i>sidoides</i>
	<i>Corymbia candida</i> subsp. <i>lautifolia</i>	Amalgamated with <i>Corymbia flavescens</i>
	<i>Corymbia</i> ? <i>ferritcola</i>	Amalgamated with <i>Corymbia ferritcola</i>
	<i>Eragrostis</i> ? <i>eriopoda</i>	Amalgamated with <i>Eragrostis eriopoda</i>
	<i>Eriachne</i> aff. <i>benthamii</i>	Amalgamated with <i>Eriachne benthamii</i> – taxonomy previously confused/unclear
	<i>Eriachne</i> aff. <i>festucea</i>	Amalgamated with <i>Eriachne benthamii</i> – taxonomy previously confused/unclear
	<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	Amalgamated with <i>Eucalyptus camaldulensis</i> - taxonomy often unclear in the field
	<i>Eucalyptus</i> ? <i>xerothermica</i>	Amalgamated with <i>Eucalyptus xerothermica</i>
	<i>Euphorbia alsiniflora</i>	Amalgamated with <i>Euphorbia trigonosperma</i> – changes in taxonomy
	<i>Goodenia</i> ? <i>muelleriana</i>	Amalgamated with <i>Goodenia muelleriana</i>
	<i>Goodenia</i> ? <i>nuda</i>	Amalgamated with <i>Goodenia nuda</i>
	<i>Goodenia</i> ? <i>stobbsiana</i>	Amalgamated with <i>Goodenia stobbsiana</i>
	<i>Grevillea wickhamii</i> subsp. <i>aprica</i> ; <i>Grevillea wickhamii</i> subsp. <i>hispidula</i> ; <i>Grevillea wickhamii</i> subsp. <i>macrodonata</i>	Amalgamated with <i>Grevillea wickhamii</i> - taxonomy often unclear in the field, no correlation between variants and VTs
	<i>Melhanie</i> aff. <i>oblongifolia</i>	Amalgamated with <i>Melhanie oblongifolia</i>
	<i>Neptunia</i> ? <i>dimorphantha</i>	Amalgamated with <i>Neptunia dimorphantha</i>
	<i>Pluchea</i> ? <i>dentex</i>	Amalgamated with <i>Pluchea dentex</i>
	<i>Pluchea</i> ? <i>rubelliflora</i>	Amalgamated with <i>Pluchea rubelliflora</i>
	<i>Pterocaulon</i> ? <i>sphaeranthoides</i>	Amalgamated with <i>Pterocaulon sphaeranthoides</i>
	<i>Sida</i> ? <i>clementii</i>	Amalgamated with <i>Sida clementii</i>

Description	Taxon	Reasoning
<b>Amalgamated Taxa cont.</b>	<i>Sida ?echinocarpa</i>	Amalgamated with <i>Sida echinocarpa</i>
	<i>Sida ?fibulifera</i> ; <i>Sida aff. fibulifera</i>	Amalgamated with <i>Sida fibulifera</i>
	<i>Sida ?macropoda</i> (complex)	Amalgamated with <i>Sida macropoda</i>
	<i>Solanum ?cleistogamum</i>	Amalgamated with <i>Solanum cleistogamum</i>
	<i>Solanum ?phlomoides</i>	Amalgamated with <i>Solanum phlomoides</i>
	<i>Stemodia ?grossa</i>	Amalgamated with <i>Stemodia grossa</i>
	<i>Streptoglossa ?decurrens</i>	Amalgamated with <i>Streptoglossa decurrens</i>
	<i>Triodia ?brizoides</i>	Amalgamated with <i>Triodia brizoides</i>

## **Appendix G: OptimClass Combinations Tested for Classification Analysis**

Clustering	Resemblance	Transformation
Average Linkage (UPGMA)	Bray-Curtis	none
Average Linkage (UPGMA)	Bray-Curtis	log(2)
Average Linkage (UPGMA)	Bray-Curtis	power 0.333
Average Linkage (UPGMA)	Bray-Curtis	power 0
Average Linkage (UPGMA)	Jaccard	none
Average Linkage (UPGMA)	Jaccard	log(2)
Average Linkage (UPGMA)	Jaccard	power 0.333
Average Linkage (UPGMA)	Jaccard	power 0
Beta flexible ( $\beta = -0.25$ )	Bray-Curtis	none
Beta flexible ( $\beta = -0.25$ )	Bray-Curtis	log(2)
Beta flexible ( $\beta = -0.25$ )	Bray-Curtis	power 0.333
Beta flexible ( $\beta = -0.25$ )	Bray-Curtis	power 0
Beta flexible ( $\beta = -0.25$ )	Jaccard	none
Beta flexible ( $\beta = -0.25$ )	Jaccard	log(2)
Beta flexible ( $\beta = -0.25$ )	Jaccard	power 0.333
Beta flexible ( $\beta = -0.25$ )	Jaccard	power 0
Beta flexible ( $\beta = -0.1$ )	Bray-Curtis	none
Beta flexible ( $\beta = -0.1$ )	Bray-Curtis	log(2)
Beta flexible ( $\beta = -0.1$ )	Bray-Curtis	power 0.333
Beta flexible ( $\beta = -0.1$ )	Bray-Curtis	power 0
Beta flexible ( $\beta = -0.1$ )	Jaccard	none
Beta flexible ( $\beta = -0.1$ )	Jaccard	log(2)
Beta flexible ( $\beta = -0.1$ )	Jaccard	power 0.333
Beta flexible ( $\beta = -0.1$ )	Jaccard	power 0
Beta flexible ( $\beta = -0.4$ )	Bray-Curtis	none
Beta flexible ( $\beta = -0.4$ )	Bray-Curtis	log(2)
Beta flexible ( $\beta = -0.4$ )	Bray-Curtis	power 0.333
Beta flexible ( $\beta = -0.4$ )	Bray-Curtis	power 0
Beta flexible ( $\beta = -0.4$ )	Jaccard	none
Beta flexible ( $\beta = -0.4$ )	Jaccard	log(2)
Beta flexible ( $\beta = -0.4$ )	Jaccard	power 0.333
Beta flexible ( $\beta = -0.4$ )	Jaccard	power 0
Ward's method (= ISS)	Chord (= normalised ED)	none
Ward's method (= ISS)	Chord (= normalised ED)	log(2)
Ward's method (= ISS)	Chord (= normalised ED)	power 0.333
Ward's method (= ISS)	Chord (= normalised ED)	power 0
Ward's method (= ISS)	Euclid	none
Ward's method (= ISS)	Euclid	log(2)
Ward's method (= ISS)	Euclid	power 0.333
Ward's method (= ISS)	Euclid	power 0
Furthest neighbour (CLC)	Bray-Curtis	none
Furthest neighbour (CLC)	Bray-Curtis	log(2)
Furthest neighbour (CLC)	Bray-Curtis	power 0.333
Furthest neighbour (CLC)	Bray-Curtis	power 0
Furthest neighbour (CLC)	Jaccard	none
Furthest neighbour (CLC)	Jaccard	log(2)
Furthest neighbour (CLC)	Jaccard	power 0.333
Furthest neighbour (CLC)	Jaccard	power 0

## Appendix H: Misclassified Quadrats Manually Reassigned within the Floristic Classification

Quadrat	Original Dendrogram VT	Reallocation VT	Reasoning
CD-045	VT 2	VT 1	Quadrat placed within an ecotone
CD-086	VT 2	VT 12	Quadrat placed within an ecotone
CD-109	VT 1	VT 10	Quadrat placed within an ecotone
CD-112	VT 1	VT 10	Quadrat placed within an ecotone
CD-139	VT 2	VT 12	Quadrat placed within an ecotone
CD-155	VT 2	VT 10	Quadrat placed within an ecotone
CD-168	VT 2	VT 10	Quadrat placed within an ecotone
CD-200	VT 2	VT 1	Quadrat placed within an ecotone
CD-255	VT 1	VT 10	Quadrat placed within an ecotone
CD-407	VT 2	VT 10	Quadrat placed within an ecotone
CE-022	VT 2	VT 5	Quadrat placed within an ecotone
CE-034	VT 2	VT 12	Quadrat placed within an ecotone
CE-035	VT 1	VT 5	Species-poor quadrat
CE-040	VT 1	VT 5	Species-poor quadrat
CE-045	VT 1	VT 5	Species-poor quadrat
CE-072	VT 2	VT 12	Quadrat placed within an ecotone
CE-086	VT 2	VT 5	Quadrat placed within an ecotone, recently burnt
CE-137	VT 1	VT 10	Quadrat placed within an ecotone
CE-139	VT 1	VT 10	Quadrat placed within an ecotone
CE-145	VT 1	VT 10	Quadrat placed within an ecotone
CE-150	VT 2	VT 10	Quadrat placed within an ecotone, recently burnt
CE-152	VT 1	VT 11	Species-poor quadrat
CE-172	VT 1	VT 5	Species-poor quadrat
CE-176	VT 1	VT 5	Species-poor quadrat
CE-188	VT 1	VT 11	Species-poor quadrat
CE-306B	VT 2	VT 5	Quadrat placed within an ecotone, recently burnt

**Appendix I: Vascular Plant Taxa Recorded in the Study Area, 2014 and 2016**

Note: \* denotes introduced taxon

<b>FAMILY</b>	<b>TAXON</b>
<b>Acanthaceae</b>	<i>Rostellularia adscendens</i> var. <i>latifolia</i> (P3)
<b>Aizoaceae</b>	<i>Trianthema cusackianum</i> <i>Trianthema oxycalyptum</i> var. <i>oxycalyptum</i> <i>Trianthema pilosum</i> <i>Trianthema triquetrum</i> <i>Zaleya galericulata</i> subsp. <i>galericulata</i>
<b>Amaranthaceae</b>	* <i>Aerva javanica</i> <i>Alternanthera angustifolia</i> <i>Alternanthera nana</i> <i>Amaranthus cuspidifolius</i> <i>Amaranthus undulatus</i> *? <i>Amaranthus viridis</i> <i>Gomphrena cunninghamii</i> <i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i> <i>Ptilotus astrolasius</i> <i>Ptilotus auriculifolius</i> <i>Ptilotus axillaris</i> <i>Ptilotus calostachyus</i> <i>Ptilotus clementii</i> <i>Ptilotus fusiformis</i> <i>Ptilotus gomphrenoides</i> <i>Ptilotus incanus</i> <i>Ptilotus mollis</i> (P4) <i>Ptilotus murrayi</i> <i>Ptilotus nobilis</i> subsp. <i>nobilis</i> <i>Ptilotus obovatus</i>
<b>Apocynaceae</b>	* <i>Calotropis procera</i> <i>Carissa lanceolata</i> <i>Cynanchum floribundum</i> <i>Marsdenia angustata</i> <i>Sarcostemma viminalis</i> subsp. <i>australe</i> <i>Tylophora flexuosa</i>
<b>Araliaceae</b>	<i>Trachymene oleracea</i> subsp. <i>oleracea</i>
<b>Asteraceae</b>	Asteraceae sp. <i>Blumea tenella</i> <i>Centipeda minima</i> subsp. <i>macrocephala</i> * <i>Flaveria trinervia</i>

<b>Asteraceae cont.</b>	<i>Pentalepis trichodesmoides</i> subsp. <i>trichodesmoides</i> <i>Peripleura virgata</i> <i>Pluchea dentex</i> <i>Pluchea ferdinandi-muelleri</i> <i>Pluchea rubelliflora</i> <i>Pluchea tetranthera</i> <i>Podolepis capillaris</i> <i>Pterocaulon sphacelatum</i> <i>Pterocaulon sphaeranthoides</i> <i>*Sonchus oleraceus</i> <i>Streptoglossa bubakii</i> <i>Streptoglossa decurrens</i> <i>Streptoglossa liatroides</i>
<b>Bixaceae</b>	<i>Cochlospermum macnamarae</i> (P1)
<b>Boraginaceae</b>	<i>Ehretia saligna</i> var. <i>saligna</i> <i>Heliotropium chrysocarpum</i> <i>Heliotropium crispatum</i> <i>Heliotropium cunninghamii</i> <i>Heliotropium heteranthum</i> <i>Heliotropium murinum</i> (P3) <i>Heliotropium ovalifolium</i> <i>Heliotropium pachyphyllum</i> <i>Heliotropium skeleton</i> <i>Heliotropium tanythrix</i> <i>Heliotropium tenuifolium</i> <i>Trichodesma zeylanicum</i>
<b>Brassicaceae</b>	? <i>Lepidium pholidogynum</i>
<b>Campanulaceae</b>	<i>Lobelia arnhemiaca</i> <i>Wahlenbergia tumidifructa</i>
<b>Capparaceae</b>	<i>Capparis spinosa</i> var. <i>nummularia</i>
<b>Caryophyllaceae</b>	<i>Polycarpaea corymbosa</i> <i>Polycarpaea holtzei</i> <i>Polycarpaea involucrata</i> <i>Polycarpaea longiflora</i>
<b>Celastraceae</b>	<i>Stackhousia muricata</i>
<b>Chenopodiaceae</b>	<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i> <i>Dysphania sphaerosperma</i> <i>Salsola australis</i> <i>Sclerolaena costata</i> <i>Sclerolaena densiflora</i>

<b>Chenopodiaceae cont.</b>	<i>Sclerolaena hostilis</i>
<b>Cleomaceae</b>	<i>Cleome viscosa</i>
<b>Combretaceae</b>	<i>Terminalia canescens</i>
<b>Commelinaceae</b>	<i>Commelina ensifolia</i>
<b>Convolvulaceae</b>	<i>Bonamia alatisemina</i> <i>Bonamia erecta</i> <i>Bonamia media</i> <i>Bonamia pannosa</i> <i>Bonamia pilbarensis</i> <i>Bonamia aff. pilbarensis</i> <i>Evolvulus alsinoides</i> var. <i>villosicalyx</i> <i>Ipomoea coptica</i> <i>Ipomoea lonchophylla</i> <i>Ipomoea muelleri</i> <i>Ipomoea polymorpha</i> <i>Operculina aequisejala</i> <i>Polymeria ambigua</i>
<b>Cucurbitaceae</b>	<i>Austrobryonia pilbarensis</i> <i>Cucumis melo</i> <i>Cucumis variabilis</i> <i>Trichosanthes cucumerina</i>
<b>Cyperaceae</b>	<i>Bulbostylis barbata</i> <i>Cyperus bifax</i> <i>Cyperus blakeanus</i> <i>Cyperus cunninghamii</i> subsp. <i>cunninghamii</i> <i>Cyperus difformis</i> <i>Cyperus hesperius</i> <i>Cyperus iria</i> <i>Cyperus ixiocarpus</i> <i>Cyperus pulchellus</i> <i>Cyperus squarrosus</i> <i>Cyperus vaginatus</i> <i>Eleocharis geniculata</i> <i>Fimbristylis dichotoma</i> <i>Fimbristylis elegans</i> <i>Fimbristylis microcarya</i> <i>Fimbristylis simulans</i> <i>Fuirena ciliaris</i> <i>Lipocarpha microcephala</i> <i>Schoenoplectus subulatus</i> <i>Schoenus falcatus</i>

<b>Cyperaceae cont.</b>	<i>Schoenus</i> sp. Marble Bar (D. Coultas & S. Coultas DCSC-Opp 07) (P1)
<b>Droseraceae</b>	<i>Drosera finlaysoniana</i>
<b>Elatinaceae</b>	<i>Bergia ammannioides</i> <i>Bergia pedicellaris</i> <i>Bergia trimera</i>
<b>Eriocaulaceae</b>	<i>Eriocaulon pusillum</i>
<b>Euphorbiaceae</b>	<i>Adriana tomentosa</i> var. <i>tomentosa</i> <i>Euphorbia australis</i> var. <i>subtomentosa</i> <i>Euphorbia biconvexa</i> <i>Euphorbia boophthona</i> <i>Euphorbia careyi</i> <i>Euphorbia coghlanii</i> <i>Euphorbia tannensis</i> subsp. <i>eremophila</i> <i>Euphorbia trigonosperma</i> <i>Euphorbia vaccaria</i> var. <i>vaccaria</i>
<b>Fabaceae</b>	<i>Acacia acradenia</i> <i>Acacia ampliceps</i> <i>Acacia ancistrocarpa</i> <i>Acacia ancistrocarpa</i> x <i>tumida</i> var. <i>pilbarensis</i> <i>Acacia aptaneura</i> <i>Acacia arrecta</i> <i>Acacia bivenosa</i> <i>Acacia colei</i> var. <i>colei</i> <i>Acacia coriacea</i> subsp. <i>pendens</i> <i>Acacia eriopoda</i> <i>Acacia hilliana</i> <i>Acacia inaequilatera</i> <i>Acacia levata</i> (P3) <i>Acacia maitlandii</i> <i>Acacia monticola</i> <i>Acacia orthocarpa</i> <i>Acacia pruinocarpa</i> <i>Acacia ptychophylla</i> <i>Acacia pyrifolia</i> var. <i>pyrifolia</i> <i>Acacia retivenea</i> subsp. <i>clandestina</i> <i>Acacia sclerosperma</i> subsp. <i>sclerosperma</i> <i>Acacia sphaerostachya</i> <i>Acacia spondylophylla</i> <i>Acacia stellaticeps</i> <i>Acacia synchronicia</i> <i>Acacia trachycarpa</i> <i>Acacia tumida</i> var. <i>pilbarensis</i>

**Fabaceae cont.**

*Alysicarpus muelleri*  
*Cajanus cinereus*  
*Cajanus pubescens*  
*Crotalaria cunninghamii*  
*Crotalaria medicaginea* var. *neglecta*  
*Crotalaria novae-hollandiae*  
*Crotalaria dissitiflora* subsp. *benthamiana*  
*Cullen graveolens*  
*Cullen lachnostachys*  
*Cullen leucanthum*  
*Cullen martinii*  
*Cullen pogonocarpum*  
*Cullen stipulaceum*  
*Desmodium filiforme*  
*Dichrostachys spicata*  
*Erythrina vespertilio*  
*Gastrolobium grandiflorum*  
*Indigastrum parviflorum*  
*Indigofera colutea*  
*Indigofera linifolia*  
*Indigofera linnaei*  
*Indigofera monophylla*  
*Indigofera rugosa*  
*Indigofera trita* subsp. *trita*  
*Isotropis atropurpurea*  
*Lotus australis* var. *australis*  
*Neptunia dimorphantha*  
*Petalostylis labicheoides*  
*Rhynchosia minima*  
*Rothia indica* subsp. *australis* (P1)  
*Senna artemisioides* subsp. *helmsii*  
*Senna artemisioides* subsp. *oligophylla*  
*Senna glutinosa* subsp. *glutinosa*  
*Senna glutinosa* subsp. *pruinosa*  
*Senna glutinosa* subsp. x *luerssenii*  
*Senna notabilis*  
*Senna symonii*  
*Senna venusta*  
*Sesbania cannabina*  
*Sesbania formosa*  
*Swainsona decurrens*  
*Swainsona formosa*  
*Swainsona thompsoniana* (P3)  
*Tephrosia clementii*  
*Tephrosia rosea* var. *clementii*

<b>Fabaceae cont.</b>	<i>Tephrosia stipuligera</i>
	<i>Tephrosia supina</i>
	<i>Tephrosia virens</i>
	<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)
	<i>Tephrosia</i> sp. clay soils (S. van Leeuwen et al. PBS 0273)
	<i>Tephrosia</i> sp. Fortescue (A.A. Mitchell 606)
	<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)
	* <i>Vachellia farnesiana</i>
	<i>Vigna lanceolata</i> subsp. <i>lanceolata</i>
	<i>Zornia albiflora</i>
<b>Goodeniaceae</b>	<i>Dampiera candidans</i>
	<i>Goodenia cusackiana</i>
	<i>Goodenia lamprosperma</i>
	<i>Goodenia microptera</i>
	<i>Goodenia</i> aff. <i>microptera</i>
	<i>Goodenia muelleriana</i>
	<i>Goodenia stobbsiana</i>
	<i>Goodenia triodiophila</i>
	<i>Scaevola amblyanthera</i> var. <i>centralis</i>
	<i>Scaevola browniana</i> subsp. <i>browniana</i>
<b>Gyrostemonaceae</b>	<i>Scaevola spinescens</i>
<b>Haloragaceae</b>	<i>Codonocarpus cotinifolius</i>
<b>Haloragaceae</b>	<i>Gonocarpus ephemerus</i>
<b>Lamiaceae</b>	<i>Clerodendrum floribundum</i> var. <i>angustifolium</i>
	<i>Clerodendrum tomentosum</i>
	<i>Clerodendrum tomentosum</i> var. <i>lanceolatum</i>
<b>Lauraceae</b>	<i>Cassytha capillaris</i>
<b>Loganiaceae</b>	<i>Mitrasacme connata</i>
<b>Loranthaceae</b>	<i>Amyema preissii</i>
	<i>Amyema sanguinea</i> var. <i>sanguinea</i>
<b>Lythraceae</b>	<i>Ammannia baccifera</i>
	<i>Ammannia multiflora</i>
	<i>Rotala diandra</i>
<b>Malvaceae</b>	<i>Abutilon macrum</i>
	<i>Abutilon malvifolium</i>
	<i>Abutilon</i> aff. <i>hannii</i>
	<i>Abutilon</i> sp.
	<i>Abutilon</i> sp. Dioicum (A.A. Mitchell PRP 1618)
	<i>Abutilon</i> sp. Pilbara (W.R. Barker 2025)

**Malvaceae cont.**

*Corchorus laniflorus*  
*Corchorus parviflorus*  
*Corchorus tridens*  
*Corchorus* aff. *walcottii*  
*Gossypium australe*  
*Gossypium robinsonii*  
*Hibiscus austrinus* var. *austrinus*  
*Hibiscus coatesii*  
*Hibiscus goldsworthii*  
*Hibiscus leptocladus*  
*Hibiscus sturtii* var. *campylochlamys*  
*Seringia nephrosperma*  
 \**Malvastrum americanum*  
*Melhania oblongifolia*  
*Melhania* aff. *oblongifolia*  
*Sida clementii*  
*Sida echinocarpa*  
*Sida fibulifera*  
*Sida macropoda*  
*Sida rohlenae* subsp. *rohlenae*  
*Sida spinosa*  
*Sida* sp. Articulation below (A.A. Mitchell PRP 1605)  
*Sida* sp. Excedentifolia (J.L. Egan 1925)  
*Sida* sp. Pilbara (A.A. Mitchell PRP 1543)  
*Sida* sp. spiciform panicles (E. Leyland s.n. 14/8/90)  
*Sida* sp. verrucose glands (F.H. Mollemans 2423)  
*Triumfetta* aff. *appendiculata*  
*Triumfetta chaetocarpa*  
*Triumfetta clementii*  
*Triumfetta maconochieana*  
*Waltheria indica*  
*Waltheria virgata*

**Marsileaceae**

*Marsilea hirsuta*

**Menispermaceae**

*Tinospora smilacina*

**Molluginaceae**

*Mollugo cerviana*  
*Mollugo molluginea*

**Moraceae**

*Ficus aculeata* subsp. *indecora*  
*Ficus brachypoda*  
*Ficus platypoda*

**Myrtaceae**

*Corymbia ferriticola*  
*Corymbia flavescens*  
*Corymbia hamersleyana*

<b>Myrtaceae cont.</b>	<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>
	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>
	<i>Eucalyptus victrix</i>
	<i>Eucalyptus xerothermica</i>
	<i>Melaleuca argentea</i>
	<i>Melaleuca glomerata</i>
	<i>Melaleuca linophylla</i>
<b>Nyctaginaceae</b>	<i>Boerhavia burbridgeana</i>
	<i>Boerhavia coccinea</i>
	<i>Boerhavia gardneri</i>
<b>Onagraceae</b>	<i>Ludwigia perennis</i>
<b>Orobanchaceae</b>	<i>Buchnera linearis</i>
	<i>Striga squamigera</i>
<b>Papaveraceae</b>	* <i>Argemone ochroleuca</i> subsp. <i>ochroleuca</i>
<b>Passifloraceae</b>	* <i>Passiflora foetida</i> var. <i>hispida</i>
<b>Pedaliaceae</b>	<i>Josephinia ?eugeniae</i>
<b>Phrymaceae</b>	<i>Peplidium</i> sp. E Evol. Fl. Fauna Arid Aust. (A.S. Weston 12768)
<b>Phyllanthaceae</b>	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>
	<i>Notoleptopus decaisnei</i>
	<i>Phyllanthus erwinii</i>
	<i>Phyllanthus exilis</i>
	<i>Phyllanthus maderaspatensis</i>
<b>Plantaginaceae</b>	<i>Stemodia grossa</i>
	<i>Stemodia viscosa</i>
<b>Poaceae</b>	<i>Aristida contorta</i>
	<i>Aristida holathera</i> var. <i>holathera</i>
	<i>Cynodon convergens</i>
	<i>Cynodon prostratus</i>
	* <i>Cenchrus ciliaris</i>
	* <i>Cenchrus setiger</i>
	* <i>Chloris barbata</i>
	<i>Chrysopogon fallax</i>
	<i>Cymbopogon ambiguus</i>
	* <i>Cynodon dactylon</i>
	<i>Dactyloctenium radulans</i>
	<i>Dichanthium fecundum</i>
	<i>Dichanthium sericeum</i> subsp. <i>humilius</i>
	<i>Digitaria brownii</i>
	<i>Digitaria ctenantha</i>

**Poaceae cont.**

*\*Echinochloa colona*  
*Enneapogon caerulescens*  
*Enneapogon lindleyanus*  
*Enneapogon polyphyllus*  
*Enteropogon ramosus*  
*Eragrostis crateriformis* (P3)  
*Eragrostis cumingii*  
*Eragrostis desertorum*  
*Eragrostis dielsii*  
*Eragrostis eriopoda*  
*Eragrostis falcata*  
*Eragrostis setifolia*  
*Eragrostis speciosa*  
*Eragrostis tenellula*  
*Eriachne aristidea*  
*Eriachne benthamii*  
*Eriachne ciliata*  
*Eriachne flaccida*  
*Eriachne mucronata*  
*Eriachne obtusa*  
*Eriachne pulchella* subsp. *dominii*  
*Eriachne tenuiculmis*  
*Eulalia aurea*  
*Heteropogon contortus*  
*Iseilema dolichotrichum*  
*Leptochloa fusca* subsp. *fusca*  
*Panicum decompositum*  
*Paraneurachne muelleri*  
*Paspalidium basicladum*  
*Paspalidium clementii*  
*Paspalidium rarum*  
*Paspalidium tabulatum*  
*Perotis rara*  
*Schizachyrium fragile*  
*\*Setaria verticillata*  
*Sporobolus actinocladus*  
*Sporobolus australasicus*  
*Themeda avenacea*  
*Themeda triandra*  
*Triodia angusta*  
*Triodia brizoides*  
*Triodia epactia*  
*Triodia longiceps*  
*Triodia secunda*  
*Triodia wiseana*

<b>Poaceae cont.</b>	<i>Tripogon loliiformis</i> <i>Yakirra australiensis</i> subsp. <i>australiensis</i>
<b>Polygalaceae</b>	<i>Polygala glaucifolia</i> <i>Polygala isingii</i>
<b>Portulacaceae</b>	<i>Calandrinia pumila</i> <i>Calandrinia quadrivalvis</i> <i>Portulaca conspicua</i> <i>Portulaca cyclophylla</i> <i>Portulaca oleracea</i> <i>*Portulaca pilosa</i> <i>Portulaca</i> sp. (potentially undescribed)
<b>Potamogetonaceae</b>	<i>Potamogeton tricarinatus</i>
<b>Proteaceae</b>	<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i> <i>Grevillea wickhamii</i> <i>Grevillea wickhamii</i> subsp. <i>hispidula</i> <i>Hakea lorea</i> subsp. <i>lorea</i>
<b>Pteridaceae</b>	<i>Acrostichum speciosum</i> <i>Cheilanthes brownii</i> <i>Cheilanthes</i> sp.
<b>Rubiaceae</b>	<i>Oldenlandia crouchiana</i> <i>Oldenlandia galioides</i> <i>Oldenlandia</i> sp. (potentially undescribed) <i>Synaptantha tillaeacea</i>
<b>Santalaceae</b>	<i>Santalum lanceolatum</i>
<b>Sapindaceae</b>	<i>Atalaya hemiglauca</i> <i>Dodonaea coriacea</i>
<b>Scrophulariaceae</b>	<i>Eremophila latrobei</i> subsp. <i>glabra</i> <i>Eremophila longifolia</i>
<b>Solanaceae</b>	<i>Nicotiana ?benthamiana</i> <i>Nicotiana benthamiana</i> <i>Nicotiana umbratica</i> (P3) <i>Solanum cleistogamum</i> <i>Solanum diversiflorum</i> <i>Solanum horridum</i> <i>*Solanum nigrum</i> <i>Solanum phlomoides</i>
<b>Stylidiaceae</b>	<i>Stylidium fluminense</i> <i>Stylidium weeliwolli</i> (P2)

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<b>Typhaceae</b>	<i>Typha domingensis</i>
<b>Violaceae</b>	<i>Hybanthus aurantiacus</i>
<b>Zygophyllaceae</b>	<i>Tribulopsis angustifolia</i>
	<i>Tribulus hirsutus</i>
	<i>Tribulus platypterus</i>
	<i>Tribulus suberosus</i>
	* <i>Tribulus terrestris</i>

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Conservation Significant Taxa	= 13
Common Native Taxa	= 383
Hybrid Taxa	= 2 (1x known, 1x putative)
Introduced Taxa	= <u>17</u>
<b>Total Taxa</b>	<b><u>415</u></b>

## Appendix J: Location Details of Conservation Significant Flora and Introduced Flora Recorded within the Study Area and Surrounds, 2014 and 2016

All coordinates were recorded in GDA94 (Zone 50)

Taxon	Status	Easting	Northing	Record Location	Source	Count
<i>Abutilon</i> aff. <i>hannii</i>	Potentially undescribed	777834	7617186	Opportunistic	WEC	NA
<i>Abutilon</i> aff. <i>hannii</i>	Potentially undescribed	773038	7622945	Opportunistic	WEC	NA
<i>Abutilon</i> aff. <i>hannii</i>	Potentially undescribed	775932	7615042	Opportunistic	WEC	20
<i>Acacia levata</i>	P3	765907	7629283	Opportunistic	WEC	5
<i>Acacia levata</i>	P3	765683	7629226	Opportunistic	WEC	2
<i>Acacia levata</i>	P3	766058	7629234	Opportunistic	WEC	10
<i>Acacia levata</i>	P3	766282	7629289	Opportunistic	WEC	2
<i>Acacia levata</i>	P3	765380	7631615	CD001	WEC	1
<i>Acacia levata</i>	P3	766194	7629225	CD045	WEC	24
<i>Acacia levata</i>	P3	765173	7633064	CD002	WEC	1
<i>Acacia levata</i>	P3	765751	7631578	Opportunistic	WEC	10
<i>Acacia levata</i>	P3	766704	7632293	Opportunistic	WEC	1
<i>Acacia levata</i>	P3	765620	7632151	Opportunistic	WEC	30
<i>Acacia levata</i>	P3	765600	7631777	Opportunistic	WEC	100
<i>Acacia levata</i>	P3	765220	7631809	Opportunistic	WEC	50
<i>Acacia levata</i>	P3	764782	7631698	Opportunistic	WEC	20
<i>Acacia levata</i>	P3	765112	7632747		DPaW	1
<i>Acacia levata</i>	P3	765401	7633137		DPaW	1
<i>Acacia levata</i>	P3	765428	7632855		DPaW	1
<i>Acacia levata</i>	P3	765452	7632371		DPaW	1
<i>Acacia levata</i>	P3	765546	7633196		DPaW	1
<i>Acacia levata</i>	P3	766129	7633253		DPaW	1
<i>Acrostichum speciosum</i>	Significantly Disjunct Record	776743	7623790	Opportunistic	WEC	3
<i>Cochlospermum macnamarae</i>	P1	773611	7612913	Opportunistic	WEC	76
<i>Cochlospermum macnamarae</i>	P1	773050	7612700	Opportunistic	WEC	3
<i>Cochlospermum macnamarae</i>	P1	773321	7614165	CD172	WEC	1
<i>Cochlospermum macnamarae</i>	P1	773471	7612880	CD171	WEC	4
<i>Cochlospermum macnamarae</i>	P1	773586	7613897	Opportunistic	WEC	20
<i>Cochlospermum macnamarae</i>	P1	773166	7613915	Opportunistic	WEC	25
<i>Cochlospermum macnamarae</i>	P1	773139	7614145	Opportunistic	WEC	10
<i>Cochlospermum macnamarae</i>	P1	773400	7614328	Opportunistic	WEC	15
<i>Eragrostis crateriformis</i>	P3	779729	7636023	Opportunistic	WEC	1
<i>Eragrostis crateriformis</i>	P3	779662	7636134	Opportunistic	WEC	40
<i>Eragrostis crateriformis</i>	P3	779892	7633917	Opportunistic	WEC	10
<i>Eragrostis crateriformis</i>	P3	779756	7634904	Opportunistic	WEC	10

Taxon	Status	Easting	Northing	Record Location	Source	Count
<i>Eragrostis crateriformis</i>	P3	779770	7634585	Opportunistic	WEC	3
<i>Eragrostis crateriformis</i>	P3	779606	7635630	CE-091	WEC	50
<i>Eragrostis crateriformis</i>	P3	779833	7634211	Opportunistic	WEC	6
<i>Eragrostis crateriformis</i>	P3	779761	7634570	Opportunistic	WEC	2
<i>Eragrostis crateriformis</i>	P3	779751	7634578	Opportunistic	WEC	12
<i>Eragrostis crateriformis</i>	P3	779735	7635063	Opportunistic	WEC	75
<i>Eragrostis crateriformis</i>	P3	779721	7634992	Opportunistic	WEC	55
<i>Eragrostis crateriformis</i>	P3	779816	7634193	Opportunistic	WEC	1
<i>Eragrostis crateriformis</i>	P3	779861	7634267	Opportunistic	WEC	2
<i>Eragrostis crateriformis</i>	P3	779832	7634212	Opportunistic	WEC	5
<i>Eriocaulon pusillum</i>		764847	7631929	Opportunistic	WEC	10
<i>Heliotropium murinum</i>	P3	780467	7636043	CE-090	WEC	1
<i>Heliotropium murinum</i>	P3	780031	7637239	CE-073	WEC	1
<i>Heliotropium murinum</i>	P3	780004	7636551	Opportunistic	WEC	1
<i>Nicotiana umbratica</i>	P3	776155	7620711	Opportunistic	WEC	15
<i>Nicotiana umbratica</i>	P3	778008	7634123	Opportunistic	WEC	100
<i>Oldenlandia</i> sp.	Potentially undescribed	780526	7638975	CE-068	WEC	1
<i>Portulaca</i> sp.	Potentially undescribed	770630	7630790	Opportunistic	WEC	NA
<i>Ptilotus mollis</i>	P4	779672	7625913	Opportunistic	WEC	5
<i>Ptilotus mollis</i>	P4	779469	7626616	Opportunistic	WEC	5
<i>Ptilotus mollis</i>	P4	779661	7625880	CE-160	WEC	30
<i>Ptilotus mollis</i>	P4	779430	7625977	CE-161	WEC	35
<i>Ptilotus mollis</i>	P4	777580	7622000	Opportunistic	WEC	30
<i>Ptilotus mollis</i>	P4	777350	7623650	Opportunistic	WEC	20
<i>Ptilotus mollis</i>	P4	775870	7611749	Opportunistic	WEC	30
<i>Ptilotus mollis</i>	P4	776408	7611657	Opportunistic	WEC	20
<i>Ptilotus mollis</i>	P4	776811	7611657	Opportunistic	WEC	20
<i>Ptilotus mollis</i>	P4	776829	7611489	Opportunistic	WEC	10
<i>Ptilotus mollis</i>	P4	776960	7611863	Opportunistic	WEC	10
<i>Ptilotus mollis</i>	P4	777790	7612796	Opportunistic	WEC	10
<i>Ptilotus mollis</i>	P4	776820	7613050	Opportunistic	WEC	25
<i>Ptilotus mollis</i>	P4	777053	7613010	Opportunistic	WEC	30
<i>Ptilotus mollis</i>	P4	777060	7613113	Opportunistic	WEC	20
<i>Ptilotus mollis</i>	P4	777872	7621616	Opportunistic	WEC	30
<i>Ptilotus mollis</i>	P4	777228	7616201	CD159	WEC	1
<i>Ptilotus mollis</i>	P4	777044	7612906	CD308	WEC	50
<i>Ptilotus mollis</i>	P4	777151	7622284	CD131	WEC	30
<i>Ptilotus mollis</i>	P4	777338	7615581	CD160	WEC	3
<i>Ptilotus mollis</i>	P4	776985	7616107	Opportunistic	WEC	30
<i>Ptilotus mollis</i>	P4	776876	7616166	Opportunistic	WEC	150
<i>Ptilotus mollis</i>	P4	777047	7615951	Opportunistic	WEC	30
<i>Ptilotus mollis</i>	P4	777666	7616053	Opportunistic	WEC	20

Taxon	Status	Easting	Northing	Record Location	Source	Count
<i>Ptilotus mollis</i>	P4	775405	7614918	Opportunistic	WEC	20
<i>Ptilotus mollis</i>	P4	777272	7615533	Opportunistic	WEC	25
<i>Ptilotus mollis</i>	P4	777150	7615700	Opportunistic	WEC	7
<i>Ptilotus mollis</i>	P4	776195	7615583	Opportunistic	WEC	10
<i>Ptilotus mollis</i>	P4	777408	7616617	Opportunistic	WEC	30
<i>Ptilotus mollis</i>	P4	776829	7621294	Opportunistic	WEC	10
<i>Ptilotus mollis</i>	P4	777548	7621645	Opportunistic	WEC	15
<i>Ptilotus mollis</i>	P4	777377	7623303	Opportunistic	WEC	6
<i>Ptilotus mollis</i>	P4	777449	7623464	Opportunistic	WEC	2
<i>Ptilotus mollis</i>	P4	777270	7622380	Opportunistic	WEC	10
<i>Ptilotus mollis</i>	P4	777370	7622310	Opportunistic	WEC	10
<i>Ptilotus mollis</i>	P4	776660	7620745	Opportunistic	WEC	20
<i>Ptilotus mollis</i>	P4	776820	7612770	Opportunistic	WEC	10
<i>Ptilotus mollis</i>	P4	777010	7612600	Opportunistic	WEC	15
<i>Ptilotus mollis</i>	P4	776647	7620903	Opportunistic	WEC	15
<i>Ptilotus mollis</i>	P4	776594	7620955	Opportunistic	WEC	10
<i>Ptilotus mollis</i>	P4	776662	7621022	Opportunistic	WEC	10
<i>Rostellularia adscendens</i> var. <i>latifolia</i>	P3	780101	7647302	CE-024	WEC	1
<i>Rostellularia adscendens</i> var. <i>latifolia</i>	P3	771121	7624361	Opportunistic	WEC	100
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779626	7633791	Opportunistic	WEC	40
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779573	7633939	CE-171	WEC	50
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779604	7633871	Opportunistic	WEC	10
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779630	7633925	Opportunistic	WEC	6
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779645	7633819	Opportunistic	WEC	1
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779640	7633808	Opportunistic	WEC	1
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779649	7633787	Opportunistic	WEC	1
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779612	7633916	Opportunistic	WEC	2
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779614	7633774	Opportunistic	WEC	28
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779626	7633780	Opportunistic	WEC	50
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779623	7633748	Opportunistic	WEC	10
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779616	7633915	Opportunistic	WEC	55
<i>Rothia indica</i> subsp. <i>australis</i>	P1	779559	7633815	Opportunistic	WEC	1
<i>Schoenus</i> sp. Marble Bar (D. Coultas & S. Coultas DCSC-Opp 07)	P1	764847	7631929	Opportunistic	WEC	50
<i>Stylidium weeliwollii</i>	P2	764847	7631929	Opportunistic	WEC	2
<i>Swainsona thompsoniana</i>	P3	779007	7645788	CE-313	WEC	1
<i>Swainsona thompsoniana</i>	P3	777102	7642373	CE-312	WEC	1
<i>Swainsona thompsoniana</i>	P3	777607	7642887	CE-184	WEC	1
* <i>Aerva javanica</i>	Introduced	784798	7654054		WEC	5
* <i>Aerva javanica</i>	Introduced	780101	7647302	CE-024	WEC	1
* <i>Aerva javanica</i>	Introduced	780467	7636043	CE-090	WEC	1
* <i>Aerva javanica</i>	Introduced	780321	7635264	CE-096	WEC	1

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<i>*Aerva javanica</i>	Introduced	780735	7632288	CE-125	WEC	1
<i>*Aerva javanica</i>	Introduced	780346	7633136	CE-109	WEC	1
<i>*Aerva javanica</i>	Introduced	778958	7630978	CE-119	WEC	1
<i>*Aerva javanica</i>	Introduced	779722	7634373	CE-098	WEC	1
<i>*Aerva javanica</i>	Introduced	778711	7637904	CE-057	WEC	2
<i>*Aerva javanica</i>	Introduced	780472	7638136	CE-066	WEC	25
<i>*Aerva javanica</i>	Introduced	778730	7642133	CE-036	WEC	6
<i>*Aerva javanica</i>	Introduced	783611	7647768	CE-019	WEC	5
<i>*Aerva javanica</i>	Introduced	778066	7644349	CE-020	WEC	8
<i>*Aerva javanica</i>	Introduced	780949	7647694	CE-316	WEC	1
<i>*Aerva javanica</i>	Introduced	779260	7636140	CE-304	WEC	1
<i>*Aerva javanica</i>	Introduced	779661	7625880	CE-160	WEC	30
<i>*Aerva javanica</i>	Introduced	779430	7625977	CE-161	WEC	10
<i>*Aerva javanica</i>	Introduced	780040	7628779	CE-135	WEC	1
<i>*Aerva javanica</i>	Introduced	779491	7626442	CE-157	WEC	1
<i>*Aerva javanica</i>	Introduced	779711	7630352	CE-130	WEC	1
<i>*Aerva javanica</i>	Introduced	779668	7627761	CE-153	WEC	5
<i>*Aerva javanica</i>	Introduced	779759	7627767	CE-154	WEC	4
<i>*Aerva javanica</i>	Introduced	778865	7626061	CE-147	WEC	100
<i>*Aerva javanica</i>	Introduced	780674	7633422	CE-110	WEC	1
<i>*Aerva javanica</i>	Introduced	780455	7633140	CE-108	WEC	2
<i>*Aerva javanica</i>	Introduced	780515	7634167	CE-174	WEC	3
<i>*Aerva javanica</i>	Introduced	780577	7634122	CE-175	WEC	1
<i>*Aerva javanica</i>	Introduced	783350	7647039	CE-186	WEC	1
<i>*Aerva javanica</i>	Introduced	788618	7656043	CE-187	WEC	50
<i>*Aerva javanica</i>	Introduced	783652	7648286		WEC	15
<i>*Aerva javanica</i>	Introduced	766373	7635064	CD007	WEC	1
<i>*Aerva javanica</i>	Introduced	768455	7633834	CD012	WEC	1
<i>*Aerva javanica</i>	Introduced	766757	7632162	CD004	WEC	1
<i>*Aerva javanica</i>	Introduced	766106	7627797	CD048	WEC	2
<i>*Aerva javanica</i>	Introduced	770355	7624917	CD086	WEC	1
<i>*Aerva javanica</i>	Introduced	770630	7630790	CD053	WEC	4
<i>*Aerva javanica</i>	Introduced	769899	7631106	CD059	WEC	2
<i>*Aerva javanica</i>	Introduced	771614	7634302	CD017	WEC	1
<i>*Aerva javanica</i>	Introduced	777834	7617186	CD162	WEC	5
<i>*Aerva javanica</i>	Introduced	772955	7622263	CD119	WEC	1
<i>*Aerva javanica</i>	Introduced	773247	7621393	CD120	WEC	10
<i>*Aerva javanica</i>	Introduced	775561	7614882	CD168	WEC	1
<i>*Aerva javanica</i>	Introduced	777228	7616201	CD159	WEC	1
<i>*Aerva javanica</i>	Introduced	773763	7617828	CD147	WEC	1
<i>*Aerva javanica</i>	Introduced	773717	7614557	CD163	WEC	1
<i>*Aerva javanica</i>	Introduced	774646	7614528	CD157	WEC	1
<i>*Aerva javanica</i>	Introduced	774692	7623980	CD204	WEC	1

Taxon	Status	Easting	Northing	Record Location	Source	Count
* <i>Aerva javanica</i>	Introduced	776995	7621447	CD132	WEC	1
* <i>Aerva javanica</i>	Introduced	774987	7621749	CD126	WEC	1
* <i>Aerva javanica</i>	Introduced	777617	7616945	Opportunistic	WEC	10
* <i>Aerva javanica</i>	Introduced	776250	7615404	Opportunistic	WEC	15
* <i>Aerva javanica</i>	Introduced	766445	7629469	Opportunistic	WEC	1
* <i>Aerva javanica</i>	Introduced	776631	7616060	Opportunistic	WEC	25
* <i>Aerva javanica</i>	Introduced	774194	7623914	Opportunistic	WEC	5
* <i>Aerva javanica</i>	Introduced	776964	7616056	Opportunistic	WEC	150
* <i>Aerva javanica</i>	Introduced	777612	7616077	Opportunistic	WEC	30
* <i>Aerva javanica</i>	Introduced	772936	7631445	Opportunistic	WEC	3
* <i>Aerva javanica</i>	Introduced	774939	7612753	Opportunistic	WEC	5
* <i>Aerva javanica</i>	Introduced	774749	7612819	Opportunistic	WEC	10
* <i>Aerva javanica</i>	Introduced	777408	7616617	Opportunistic	WEC	10
* <i>Aerva javanica</i>	Introduced	776470	7615430	Opportunistic	WEC	20
* <i>Aerva javanica</i>	Introduced	772306	7629472	Opportunistic	WEC	3
* <i>Aerva javanica</i>	Introduced	772346	7629278	Opportunistic	WEC	5
* <i>Aerva javanica</i>	Introduced	771330	7628127	Opportunistic	WEC	5
* <i>Aerva javanica</i>	Introduced	771146	7627895	Opportunistic	WEC	5
* <i>Aerva javanica</i>	Introduced	771341	7627573	Opportunistic	WEC	10
* <i>Aerva javanica</i>	Introduced	771310	7627456	Opportunistic	WEC	7
* <i>Aerva javanica</i>	Introduced	771296	7626191	Opportunistic	WEC	20
* <i>Aerva javanica</i>	Introduced	776648	7615661	Opportunistic	WEC	20
* <i>Aerva javanica</i>	Introduced	773646	7623886	Opportunistic	WEC	30
* <i>Aerva javanica</i>	Introduced	773725	7623870	Opportunistic	WEC	20
*? <i>Amaranthus viridis</i>	Introduced	774692	7623980	CD204	WEC	1
*? <i>Amaranthus viridis</i>	Introduced	772927	7630998	CD073	WEC	1
* <i>Argemone ochroleuca</i> subsp. <i>ochroleuca</i>	Introduced	778730	7642133	CE-036	WEC	7
* <i>Argemone ochroleuca</i> subsp. <i>ochroleuca</i>	Introduced	777834	7617186	CD162	WEC	1
* <i>Calotropis procera</i>	Introduced	780455	7633140	CE-108	WEC	4
* <i>Calotropis procera</i>	Introduced	779728	7631449	Opportunistic	WEC	1
* <i>Calotropis procera</i>	Introduced	780256	7635243	Opportunistic	WEC	1
* <i>Calotropis procera</i>	Introduced	780562	7639510	Opportunistic	WEC	4
* <i>Calotropis procera</i>	Introduced	780555	7639475	Opportunistic	WEC	11
* <i>Calotropis procera</i>	Introduced	780923	7639453	Opportunistic	WEC	3
* <i>Calotropis procera</i>	Introduced	780882	7638661	Opportunistic	WEC	4
* <i>Calotropis procera</i>	Introduced	780667	7638468	Opportunistic	WEC	4
* <i>Calotropis procera</i>	Introduced	780462	7638887	Opportunistic	WEC	2
* <i>Calotropis procera</i>	Introduced	773038	7622945	CD116	WEC	1
* <i>Calotropis procera</i>	Introduced	766373	7635064	CD007	WEC	1
* <i>Calotropis procera</i>	Introduced	773032	7622913	Opportunistic	WEC	20
* <i>Calotropis procera</i>	Introduced	777482	7616330	Opportunistic	WEC	5
* <i>Calotropis procera</i>	Introduced	772952	7631042	Opportunistic	WEC	1

Taxon	Status	Easting	Northing	Record Location	Source	Count
<i>*Cenchrus ciliaris</i>	Introduced	777359	7637042	Opportunistic	WEC	20
<i>*Cenchrus ciliaris</i>	Introduced	777895	7637065	Opportunistic	WEC	10000
<i>*Cenchrus ciliaris</i>	Introduced	778881	7641231	Opportunistic	WEC	2000
<i>*Cenchrus ciliaris</i>	Introduced	780417	7638181	Opportunistic	WEC	50000
<i>*Cenchrus ciliaris</i>	Introduced	780129	7635572	Opportunistic	WEC	50000
<i>*Cenchrus ciliaris</i>	Introduced	779821	7633607	CE-166	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	779350	7633943	CE-170	WEC	100
<i>*Cenchrus ciliaris</i>	Introduced	779935	7633464	CE-167	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	779573	7633939	CE-171	WEC	5
<i>*Cenchrus ciliaris</i>	Introduced	780515	7634167	CE-174	WEC	10000
<i>*Cenchrus ciliaris</i>	Introduced	780577	7634122	CE-175	WEC	100
<i>*Cenchrus ciliaris</i>	Introduced	779900	7634639	CE-177	WEC	5
<i>*Cenchrus ciliaris</i>	Introduced	781186	7640516	CE-178	WEC	25000
<i>*Cenchrus ciliaris</i>	Introduced	780230	7637634	CE-180	WEC	1000
<i>*Cenchrus ciliaris</i>	Introduced	778739	7640918	CE-182	WEC	200
<i>*Cenchrus ciliaris</i>	Introduced	777890	7643829	CE-185	WEC	4
<i>*Cenchrus ciliaris</i>	Introduced	783350	7647039	CE-186	WEC	20000
<i>*Cenchrus ciliaris</i>	Introduced	778920	7641058	CE-183	WEC	1000
<i>*Cenchrus ciliaris</i>	Introduced	785828	7653997	CE-189	WEC	5
<i>*Cenchrus ciliaris</i>	Introduced	788618	7656043	CE-187	WEC	300
<i>*Cenchrus ciliaris</i>	Introduced	783045	7645054	CE-195	WEC	50
<i>*Cenchrus ciliaris</i>	Introduced	777640	7643779	CE-192	WEC	5
<i>*Cenchrus ciliaris</i>	Introduced	780674	7633422	CE-110	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	780455	7633140	CE-108	WEC	50
<i>*Cenchrus ciliaris</i>	Introduced	780093	7635667	CE-093	WEC	10
<i>*Cenchrus ciliaris</i>	Introduced	778865	7626061	CE-147	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	779759	7627767	CE-154	WEC	60
<i>*Cenchrus ciliaris</i>	Introduced	779069	7625791	CE-150	WEC	10
<i>*Cenchrus ciliaris</i>	Introduced	779668	7627761	CE-153	WEC	1000
<i>*Cenchrus ciliaris</i>	Introduced	782640	7645033	CE-197	WEC	100
<i>*Cenchrus ciliaris</i>	Introduced	782983	7646502	CE-198	WEC	15000
<i>*Cenchrus ciliaris</i>	Introduced	777381	7641619	CE-309	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	777666	7641117	CE-307	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	777276	7640107	CE-308	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	787895	7651890	CE-317	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	780949	7647694	CE-316	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	787733	7651712	CE-320	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	787864	7651847	CE-318	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	779744	7628317	CE-151	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	779491	7626442	CE-157	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	779661	7625880	CE-160	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	779694	7635691	CE-303	WEC	1
<i>*Cenchrus ciliaris</i>	Introduced	778619	7642661	CE-033	WEC	20

Taxon	Status	Easting	Northing	Record Location	Source	Count
* <i>Cenchrus ciliaris</i>	Introduced	783611	7647768	CE-019	WEC	250
* <i>Cenchrus ciliaris</i>	Introduced	778066	7644349	CE-020	WEC	40
* <i>Cenchrus ciliaris</i>	Introduced	785442	7654274	CE-003	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	778730	7642133	CE-036	WEC	200
* <i>Cenchrus ciliaris</i>	Introduced	778940	7642151	CE-037	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	778553	7640889	CE-041	WEC	12500
* <i>Cenchrus ciliaris</i>	Introduced	780472	7638136	CE-066	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	780526	7638975	CE-068	WEC	3
* <i>Cenchrus ciliaris</i>	Introduced	779557	7642056	CE-044	WEC	150
* <i>Cenchrus ciliaris</i>	Introduced	778711	7637904	CE-057	WEC	7500
* <i>Cenchrus ciliaris</i>	Introduced	778907	7637888	CE-058	WEC	12500
* <i>Cenchrus ciliaris</i>	Introduced	779724	7646499	CE-026	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	779697	7646560	CE-027	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	782408	7652412	CE-008	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	780101	7647302	CE-024	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	777159	7636133	CE-076	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	780031	7637239	CE-073	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	780126	7636768	CE-074	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	779298	7638112	CE-065	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	779656	7642090	CE-043	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	777876	7639625	CE-049	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	777135	7639253	CE-050	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	777239	7639650	CE-051	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	777127	7639091	CE-054	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	780321	7635264	CE-096	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	779797	7635710	CE-092	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	779660	7634998	CE-095	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	779606	7635630	CE-091	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	780467	7636043	CE-090	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	777705	7636285	CE-077	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	777958	7636079	CE-079	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	779340	7631368	CE-127	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	780735	7632288	CE-125	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	778958	7630978	CE-119	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	780346	7633136	CE-109	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	781044	7636408	CE-100	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	779722	7634373	CE-098	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	782349	7645044	Opportunistic	WEC	20
* <i>Cenchrus ciliaris</i>	Introduced	783590	7648347	Opportunistic	WEC	50
* <i>Cenchrus ciliaris</i>	Introduced	784798	7654054	Opportunistic	WEC	20
* <i>Cenchrus ciliaris</i>	Introduced	785663	7655746	Opportunistic	WEC	50
* <i>Cenchrus ciliaris</i>	Introduced	785767	7655874	Opportunistic	WEC	50
* <i>Cenchrus ciliaris</i>	Introduced	785585	7654805	Opportunistic	WEC	1

Taxon	Status	Easting	Northing	Record Location	Source	Count
* <i>Cenchrus ciliaris</i>	Introduced	772271	7629171	Opportunistic	WEC	1000
* <i>Cenchrus ciliaris</i>	Introduced	774749	7612819	Opportunistic	WEC	50
* <i>Cenchrus ciliaris</i>	Introduced	775932	7615042	Opportunistic	WEC	100
* <i>Cenchrus ciliaris</i>	Introduced	777408	7616617	Opportunistic	WEC	100
* <i>Cenchrus ciliaris</i>	Introduced	776229	7615590	Opportunistic	WEC	100
* <i>Cenchrus ciliaris</i>	Introduced	776470	7615430	Opportunistic	WEC	100
* <i>Cenchrus ciliaris</i>	Introduced	771341	7627573	Opportunistic	WEC	50
* <i>Cenchrus ciliaris</i>	Introduced	771670	7628737	Opportunistic	WEC	50
* <i>Cenchrus ciliaris</i>	Introduced	773725	7623870	Opportunistic	WEC	50
* <i>Cenchrus ciliaris</i>	Introduced	766818	7627871	Opportunistic	WEC	1000
* <i>Cenchrus ciliaris</i>	Introduced	771296	7626191	Opportunistic	WEC	100
* <i>Cenchrus ciliaris</i>	Introduced	772970	7620750	CD121	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	773080	7625998	CD075	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	764504	7631690	CD312	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	770777	7632729	CD014	WEC	1000
* <i>Cenchrus ciliaris</i>	Introduced	768310	7634924	CD010	WEC	2000
* <i>Cenchrus ciliaris</i>	Introduced	774692	7623980	CD204	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	773038	7622945	CD116	WEC	10000
* <i>Cenchrus ciliaris</i>	Introduced	776995	7621447	CD132	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	766373	7635064	CD007	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	768455	7633834	CD012	WEC	1000
* <i>Cenchrus ciliaris</i>	Introduced	765505	7633350	CD006	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	767901	7626778	CD057	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	769227	7628358	CD087	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	766106	7627797	CD048	WEC	2000
* <i>Cenchrus ciliaris</i>	Introduced	770355	7624917	CD086	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	770630	7630790	CD053	WEC	2000
* <i>Cenchrus ciliaris</i>	Introduced	769899	7631106	CD059	WEC	1000
* <i>Cenchrus ciliaris</i>	Introduced	772927	7630998	CD073	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	774646	7614528	CD157	WEC	100
* <i>Cenchrus ciliaris</i>	Introduced	769649	7624093	CD085	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	773183	7613496	CD169	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	777228	7616201	CD159	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	773763	7617828	CD147	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	771679	7634520	CD013	WEC	1
* <i>Cenchrus ciliaris</i>	Introduced	777834	7617186	CD162	WEC	500
* <i>Cenchrus ciliaris</i>	Introduced	774788	7623946	Opportunistic	WEC	50
* <i>Cenchrus ciliaris</i>	Introduced	774971	7623804	Opportunistic	WEC	20
* <i>Cenchrus ciliaris</i>	Introduced	776631	7616060	Opportunistic	WEC	200
* <i>Cenchrus ciliaris</i>	Introduced	776964	7616056	Opportunistic	WEC	15
* <i>Cenchrus ciliaris</i>	Introduced	775284	7614789	Opportunistic	WEC	50
* <i>Cenchrus ciliaris</i>	Introduced	766265	7629508	Opportunistic	WEC	30
* <i>Cenchrus ciliaris</i>	Introduced	766368	7629867	Opportunistic	WEC	100

Taxon	Status	Easting	Northing	Record Location	Source	Count
<i>*Cenchrus ciliaris</i>	Introduced	766401	7629473	Opportunistic	WEC	50
<i>*Cenchrus ciliaris</i>	Introduced	777612	7616077	Opportunistic	WEC	200
<i>*Cenchrus ciliaris</i>	Introduced	777617	7616945	Opportunistic	WEC	100
<i>*Cenchrus ciliaris</i>	Introduced	776648	7615661	Opportunistic	WEC	100
<i>*Cenchrus setiger</i>	Introduced	780455	7633140	CE-108	WEC	1
<i>*Chloris barbata</i>	Introduced	782640	7645033	CE-197	WEC	10
<i>*Chloris barbata</i>	Introduced	780526	7638975	CE-068	WEC	1
<i>*Chloris barbata</i>	Introduced	772927	7630998	CD073	WEC	1
<i>*Cynodon dactylon</i>	Introduced	780455	7633140	CE-108	WEC	1
<i>*Cynodon dactylon</i>	Introduced	780526	7638975	CE-068	WEC	1
<i>*Cynodon dactylon</i>	Introduced	780321	7635264	CE-096	WEC	1
<i>*Cynodon dactylon</i>	Introduced	779697	7646560	CE-027	WEC	1
<i>*Cynodon dactylon</i>	Introduced	778730	7642133	CE-036	WEC	1
<i>*Cynodon dactylon</i>	Introduced	780256	7635243	Opportunistic	WEC	1
<i>*Cynodon dactylon</i>	Introduced	768455	7633834	CD012	WEC	1
<i>*Cynodon dactylon</i>	Introduced	773038	7622945	CD116	WEC	3
<i>*Echinochloa colona</i>	Introduced	780321	7635264	CE-096	WEC	1
<i>*Echinochloa colona</i>	Introduced	779697	7646560	CE-027	WEC	1
<i>*Echinochloa colona</i>	Introduced	780101	7647302	CE-024	WEC	1
<i>*Echinochloa colona</i>	Introduced	780455	7633140	CE-108	WEC	1
<i>*Flaveria trinervia</i>	Introduced	780455	7633140	CE-108	WEC	2
<i>*Flaveria trinervia</i>	Introduced	774670	7623941	Opportunistic	WEC	5
<i>*Flaveria trinervia</i>	Introduced	772927	7630998	CD073	WEC	2
<i>*Flaveria trinervia</i>	Introduced	774692	7623980	CD204	WEC	10
<i>*Malvastrum americanum</i>	Introduced	773038	7622945	CD116	WEC	12
<i>*Malvastrum americanum</i>	Introduced	773247	7621393	CD120	WEC	2
<i>*Malvastrum americanum</i>	Introduced	775932	7615042	Opportunistic	WEC	1
<i>*Passiflora foetida</i> var. <i>hispida</i>	Introduced	777050	7629044	CD082	WEC	1
<i>*Passiflora foetida</i> var. <i>hispida</i>	Introduced	776606	7627440	CD065	WEC	1
<i>*Portulaca pilosa</i>	Introduced	765380	7631615	CD001	WEC	1
<i>*Setaria verticillata</i>	Introduced	772927	7630998	CD073	WEC	1
<i>*Solanum nigrum</i>	Introduced	780455	7633140	CE-108	WEC	1
<i>*Sonchus oleraceus</i>	Introduced	780101	7647302	CE-024	WEC	1
<i>*Sonchus oleraceus</i>	Introduced	772927	7630998	CD073	WEC	1
<i>*Tribulus terrestris</i>	Introduced	780472	7638136	CE-066	WEC	1
<i>*Vachellia farnesiana</i>	Introduced	780343	7633189	Opportunistic	WEC	1