



18 October 2016

Julian Munrowd-Harris

Phone + 61 8 8500 8801

Mob +61 0 427 005 226

Email paul@pgv.net.au

Unit 1, 61 Guthrie Street

Osborne Park WA 6017

ABN 44 981 725 498

Knightside Nominees Pty Ltd

Development Manager, Complex Projects
Department of Housing
Level 4, 169 Hay St
EAST PERTH WA 6004

Dear Julian,

RE: Targeted Search for Rare and Priority Flora and TEC Evaluation on Harford Way, Girrawheen

Please find following the results of a targeted search for Rare and Priority Flora on Lot 14143 (16) Harford Way, Girrawheen (formerly the Hainsworth Primary School).

1 Background

Lot 14143 (16) Harford Way, Girrawheen is located approximately 12km from the Perth Central Business District. The site was previously Hainsworth Primary School which was closed in 2010 and demolished in mid-2011.

A significant tree and vegetation survey was undertaken by PGV Environmental in July 2013. A small area of bushland to the south that had not been cleared for the development of the school was identified. The development of the site for residential purposes would result in the bushland being cleared so PGV Environmental were engaged to survey the bushland for the presence of any flora species listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) to determine if any such species occurred on the site and could be impacted as a result of the proposed development.

The vegetation in the bushland was described as a *Banksia attenuata/B. menziesii/Eucalyptus marginata* Low Open Woodland over a *Xanthorrhoea preissii* Open Heath. The dominant species indicate that the vegetation may be considered representative of the newly listed Threatened Ecological Community (TEC) *Banksia Woodlands on the Swan Coastal Plain*. The TEC, in accordance with the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) (s 266B) *Approved Conservation Advice (incorporating listing advice) for the Banksia Woodlands of the Swan Coastal Plain ecological community* (hereafter referred to as the 'conservation advice'), is defined by Area and

Condition as well as dominant species. The site was examined to determine if the vegetation is part of the TEC.

2 Targeted Species

Database searches indicated that a number of species that are listed as Critically Endangered, Endangered or Vulnerable have been located or are potentially located in the vicinity of the site. The targeted search was undertaken for species identified in the Protected Matters Search Tool Report (Attachment 1) and the Naturemap Report (Attachment 2) as outlined in Table 1.

Table 1: Conservation Significant Flora identified in Database Searches

Species Name	Common Name	Status under EPBC Act	Preferred Habitat	Likelihood to be present on the site
<i>Andersonia gracilis</i>	Slender Andersonia	Endangered	Found on white/grey sand, sandy clay, gravelly loam near winter wet swamps which do not occur on the site.	Highly Unlikely
<i>Anigozanthos viridis subsp. terraspectans</i>	Dwarf Green Kangaroo Paw	Vulnerable	Prefers grey sand, clay loam and winter-wet depressions which do not occur on the site.	Highly Unlikely
<i>Caladenia huegelii</i>	Grand Spider Orchid	Endangered	Sand or clay loam.	Possible
<i>Calectasia cyanea</i>	Blue Tinsel Lily	Critically Endangered	White, grey or yellow sand, gravel but not found in the Perth regoin	No – Considered to be a database error
<i>Diuris micrantha</i>	Dwarf Bee-orchid	Vulnerable	Occur on brown loamy clay in winter-wet swamps, in shallow water which are not located on the site.	Highly Unlikely
<i>Diuris purdiei</i>	Purdie's Donkey Orchid	Endangered	Prefers grey-black sand, moist winter-wet swamps which are not on the site.	Highly Unlikely
<i>Drakaea elastica</i>	Glossy-leaved Hammer Orchid	Endangered	Occurs on low-lying situations adjoining winter-wet swamps, which do not occur on the site.	Highly Unlikely
<i>Drakaea micrantha</i>	Dwarf Hammer Orchid	Endangered	Usually found on cleared firebreaks or open sandy patches that have been disturbed with in Jarrah Banksia woodland or thickets of Spearwood (<i>Kunzea ericifolia</i>) (Williams <i>et al.</i> , 2001) to the south of this location.	Highly Unlikely

Species Name	Common Name	Status under EPBC Act	Preferred Habitat	Likelihood to be present on the site
<i>Grevillea maccutcheonii</i>	McCutcheon's Grevillea	Endangered	Shallow soils over laterite, clay and seasonally inundated sites and known only from a single location near the base of the Whicher Range, south east of Busselton, in Western Australia – likely to be an error in the database.	Highly Unlikely
<i>Lepidosperma rostratum</i>	Beaked Lepidosperma	Endangered	Occurs in sand, sandy loam in winter-wet heath which are not habitats contained on the site.	Highly Unlikely
<i>Thelymitra dedmaniarum</i> (listed as <i>Thelymitra manginii</i>)	Cinnamon Sun-orchid	Endangered	This species inhabits open wandoo woodland on red-brown sandy loam, associated with dolerite and granite outcropping (DoE, 2014) and the soils on the site are not lateritic.	Highly Unlikely
<i>Thelymitra stellata</i>	Star Sun-orchid	Endangered	This species inhabits open wandoo woodland on red-brown sandy loam, associated with dolerite and granite outcropping (DoE, 2014) which is habitat not present on the site.	Highly Unlikely

Many of the species occur in damplands, winter wet depressions or seasonally inundated areas which do not occur on the site, however were included in the search. One species was considered to be remotely possibly present in the bushland area which was *Caladenia huegelii* (Grand Spider Orchid).

3 Methodology

3.1 Targeted Search for Flora Species

The site was examined on 14 September 2016 by Dr Paul van der Moezel, a highly experienced botanist with 30 years' experience in the Perth region. The area of bushland was traversed on foot using a 5x5m grid. The coverage was very high due to the open nature of the bushland and the small size (0.6ha).

Table 2 outlines the flowering period for each species in the Targeted Search and ensures the timing is such that all species are recognisable at the time of the survey.

Table 2: Flowering Period and Recognisability.

Species Name	Common Name	Status under EPBC Act	Flowering Period	Recognisability
<i>Andersonia gracilis</i>	Slender Andersonia	Endangered	Sept-Nov	Surveyed in flowering period and identifiable when not flowering
<i>Anigozanthos viridis</i> subsp. <i>terraspectans</i>	Dwarf Green Kangaroo Paw	Vulnerable	Aug-Sept	Surveyed in flowering period and identifiable when not flowering
<i>Caladenia huegelii</i>	Grand Spider Orchid	Endangered	Sept-Oct	Surveyed at peak flowering period (Attachment 3)
<i>Diuris micrantha</i>	Dwarf Bee-orchid	Vulnerable	Sept-Oct	Surveyed in flowering period
<i>Diuris purdiei</i>	Purdie's Donkey Orchid	Endangered	Sept-Oct	Surveyed in flowering period
<i>Drakaea elastica</i>	Glossy-leaved Hammer Orchid	Endangered	Oct-Nov	Surveyed outside of flowering period but very identifiable when not flowering by the distinctive leaf that is present May-Sept
<i>Drakaea micrantha</i>	Dwarf Hammer Orchid	Endangered	Sept-Oct	Surveyed in flowering period and identifiable by veined leaf present from when not flowering
<i>Grevillea maccutcheonii</i>	McCutcheon's Grevillea	Endangered	Varied	Identifiable when not flowering
<i>Lepidosperma rostratum</i>	Beaked Lepidosperma	Endangered	May-June	Surveyed outside of flowering period but identifiable when not flowering by curcular, deeply ribbed stems
<i>Thelymitra dedmaniarum</i> (listed as <i>Thelymitra manginii</i>)	Cinnamon Sun-orchid	Endangered	Oct-Nov	Surveyed outside of flowering period but identifiable when not flowering by large green/yellow leaf
<i>Thelymitra stellata</i>	Star Sun-orchid	Endangered	Late Sept-Nov	Surveyed outside of flowering period but identifiable when not flowering by large lilly-like leaf

The timing was in the flowering season for most of the species identified in the database searches and those that were outside of the flowering period would still be recognisable. Therefore, the timing of the survey was suitable.

The timing of the survey was in the peak flowering period for the Grand Spider Orchid (*Caladenia huegelii*) in 2016 as indicated by the monitoring of the reference site by PGV Environmental (Attachment 3)

3.2 Banksia Woodlands on the Swan Coastal Plain TEC

The Banksia woodland on the site was assessed in accordance with the DotEE diagnostic parameters in the conservation advice in four steps as follows:

- Step 1: use the key diagnostic characteristics to determine if the ecological community is present
- Step 2: determine the condition of the patch
- Step 3: consider if the patch meets a minimum size threshold
- Step 4: the surrounding context

The examination of the site in the context of the diagnostics was used to determine if the vegetation in the bushland area is representative of the Banksia Woodlands on the Swan Coastal Plain TEC.

4 Results

4.1 Targeted Search for Flora Species

The targeted search did not identify any of the species in Table 1 as occurring on the site. No other species, not identified in the database searches, listed under the EPBC Act were recorded on the site. There were 51 native species identified on the site that do not have Conservation Significance as listed below:

- | | |
|-----------------------------------|--|
| • <i>Acacia cochlearis</i> | • <i>Daviesia nudiflora</i> |
| • <i>Acacia saligna</i> | • <i>Daviesia triflora</i> |
| • <i>Alexgeorgea nitens</i> | • <i>Desmocladius flexuosa</i> |
| • <i>Allocasuarina humilis</i> | • <i>Dianella revoluta</i> var <i>divaricata</i> |
| • <i>Astroloma pallidum</i> | • <i>Drosera erythrorhiza</i> |
| • <i>Banksia attenuata</i> | • <i>Drosera menziesii</i> subsp <i>penicillaris</i> |
| • <i>Banksia menziesii</i> | • <i>Eremaea pauciflora</i> |
| • <i>Bossiaea eriocarpa</i> | • <i>Eucalyptus marginata</i> |
| • <i>Burchardia congesta</i> | • <i>Gompholobium tomentosum</i> |
| • <i>Calectasia narragara</i> | • <i>Hardenbergia comptoniana</i> |
| • <i>Calytrix flavescens</i> | • <i>Hemiandra pungens</i> |
| • <i>Chamaescilla corymbosa</i> | • <i>Hibbertia huegelii</i> |
| • <i>Conostephium preissii</i> | • <i>Hibbertia hypericoides</i> |
| • <i>Conostylis aurea</i> | • <i>Hibbertia racemosa</i> |
| • <i>Conostylis setosa</i> | • <i>Hypocalymma robustum</i> |
| • <i>Corynotheca micrantha</i> | • <i>Hypolaena exsulca</i> |
| • <i>Dampiera linearis</i> | • <i>Lepidosperma leptostachyum</i> |
| • <i>Dasypogon bromeliifolius</i> | • <i>Leucopogon propinquus</i> |
| • <i>Daviesia divaricata</i> | • <i>Lyginia barbata</i> |

- *Macrozamia riedlei*
- *Mesomelaena pseudostygia*
- *Patersonia occidentalis*
- *Persoonia saccata*
- *Petrophile linearis*
- *Philothea spicata*
- *Pyrorchis nigricans*
- *Ricinocarpus glaucus*
- *Scaevola paludosa*
- *Senecio pinnatifolius* var. *maritimus*
- *Stirlingia latifolia*
- *Thysanotus ?thyrsoideus*
- *Xanthorrhoea preissii*

Weed species recorded on the site were:

- *Arctotheca calendula*
- *Avena fatua*
- *Briza maxima*
- *Bromus diandrus*
- *Ehrharta longiflora*
- *Eragrostis curvula*
- *Gladiolus caryophyllaceus*
- *Lotus subbiflorus*
- *Lyschmachia arvensis*
- *Oxalis pes-caprae*
- *Parentucellia viscosa*
- *Romulea rosea*
- *Sagina apetala*
- *Sonchus oleraceus*
- *Trifolium campestre*

4.2 Banksia Woodlands on the Swan Coastal Plain TEC

The results of the Banksia Woodland TEC assessment are outlined below.

Step 1: use the key diagnostic characteristics to determine if the ecological community is present

The vegetation in the bushland, described as *Banksia attenuata*/*B. menziesii*/*Eucalyptus marginata* Low Open Woodland over a *Xanthorrhoea preissii* Open Heath, contains the Banksia species typical to the TEC. The inferred Floristic Community Type (FCT) for the vegetation was FCT 23a 'Central *Banksia attenuata* – *Banksia menziesii* Woodlands' which, according to the conservation advice, has relationship to the TEC.

Step 2: determine the condition of the patch

The bushland was considered to be in Good to Very Good condition and therefore as per Table 3 of the conservation advice is considered to potentially be TEC. Given the level of diversity on the site the bushland will be classified as being in Very Good Condition for the remaining two steps of the analysis.

Step 3: consider if the patch meets a minimum size threshold

The bushland area is a discrete parcel and is not part of a larger area. The entire bushland is approximately 0.6ha in size and therefore is less than the threshold for 1ha Very good vegetation.

Step 4: the surrounding context

The bushland is not part of a larger vegetated area. The bushland contains several tracks and disturbed areas, however as per the conservation advice these were included in the area calculation of the site.

Diagnosis

In accordance with the conservation guidelines Step 1 and 2 indicated that the bushland may represent the TEC, however the size of the bushland is less than the thresholds outlined in Step 3. Therefore, the bushland area cannot be considered to be part of the Banksia Woodlands on the Swan Coastal Plain TEC.

5 Conclusion

The targeted search did not identify any conservation significant flora species listed under the EPBC Act occurring on the site. Therefore, the proposed residential development will not impact on any populations of conservation significant flora species.

The bushland area is not considered to be part of the *Banksia Woodlands on the Swan Coastal Plain* TEC in accordance with the *Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) (s 266B) Approved Conservation Advice (incorporating listing advice) for the Banksia Woodlands of the Swan Coastal Plain ecological community*.

If you have any queries please contact the undersigned.

Yours sincerely



Paul van der Moezel
Managing Director

Attachment 1: Protected Matters Search Tool Report
Attachment 2: Naturemap Report
Attachment 3: *Caladenia huegelii* Reference Site File Note

Attachment 1

Protected Matters Search Tool Report



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: 06/10/16 19:10:31

[Summary](#)

[Details](#)

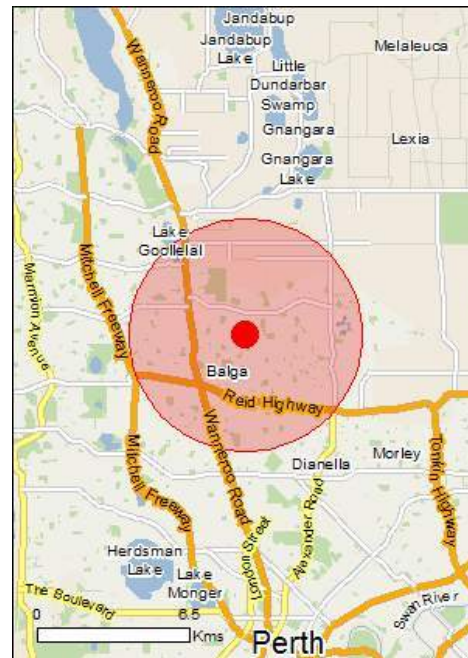
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

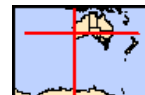
[Acknowledgements](#)



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

Buffer: 5.0Km



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	18
Listed Migratory Species:	6

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Land:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	12
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Commonwealth Reserves Marine:	None

Extra Information

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

State and Territory Reserves:	2
Regional Forest Agreements:	None
Invasive Species:	41
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area
Calyptorhynchus latirostris Carnaby's Black-Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
Mammals		
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area
Pseudocheirus occidentalis Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Andersonia gracilis Slender Andersonia [14470]	Endangered	Species or species habitat may occur within area
Anigozanthos viridis subsp. terraspectans Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat may occur within area
Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat likely to occur within area
Diuris micrantha Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Diuris purdiei Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat likely to occur within area
Drakaea elastica Glossy-leafed Hammer-orchid, Praying Virgin [16753]	Endangered	Species or species habitat likely to occur within area
Drakaea micrantha Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat likely to occur within area
Lepidosperma rostratum Beaked Lepidosperma [14152]	Endangered	Species or species habitat likely to occur within area
Thelymitra dedmaniarum Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat may occur within area
Thelymitra stellata Star Sun-orchid [7060]	Endangered	Species or species habitat may occur within area

Listed Migratory Species [\[Resource Information \]](#)

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area

Migratory Terrestrial Species

Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
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Migratory Wetlands Species

Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land [\[Resource Information \]](#)

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 [\[Resource Information \]](#)

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence

Name	Threatened	Type of Presence
Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Breeding known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Thinornis rubricollis Hooded Plover [59510]		Species or species habitat may occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Unnamed WA46756	WA
Unnamed WA50514	WA

Invasive Species	[Resource Information]
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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 Resources Audit, 2001.

Name	Status	Type of Presence
Birds		
Acridotheres tristis Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Carduelis carduelis European Goldfinch [403]		Species or species habitat likely to occur within area
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Passer domesticus House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Streptopelia senegalensis Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
Mammals		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Funambulus pennantii Northern Palm Squirrel, Five-striped Palm Squirrel [129]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus norvegicus Brown Rat, Norway Rat [83]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]		Species or species habitat likely to occur within area
Asparagus aethiopicus Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]		Species or species habitat likely to occur within area
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Asparagus declinatus Bridal Veil, Bridal Veil Creeper, Pale Berry Asparagus Fern, Asparagus Fern, South African Creeper [66908]		Species or species habitat likely to occur within area
Asparagus plumosus Climbing Asparagus-fern [48993]		Species or species habitat likely to occur within area
Brachiaria mutica Para Grass [5879]		Species or species habitat may occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		Species or species habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Opuntia spp. Prickly Pears [82753]		Species or species habitat likely to occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Protasparagus densiflorus Asparagus Fern, Plume Asparagus [5015]		Species or species habitat likely to occur

Name	Status	Type of Presence
Protasparagus plumosus Climbing Asparagus-fern, Ferny Asparagus [11747]		within area Species or species habitat likely to occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Tamarix aphylla Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]		Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat likely to occur within area

Caveat

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-31.84297 115.84396

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.

Attachment 2

Naturemap Report

NatureMap Species Report

Created By Jackalyn Hams on 06/10/2016

Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 115° 50' 37" E, 31° 50' 35" S
Buffer 5km
Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	824	5550
Other specially protected fauna	2	2
Priority 2	1	1
Priority 3	1	3
Priority 4	6	127
Priority 5	2	16
Protected under international agreement	5	82
Rare or likely to become extinct	5	225
TOTAL	846	6006

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Rare or likely to become extinct				
1.	1213 <i>Calectasia cyanea</i> (Blue Tinsel Lily)		T	
2.	24731 <i>Calyptrorhynchus banksii</i> subsp. <i>naso</i> (Forest Red-tailed Black-Cockatoo)		T	
3.	24733 <i>Calyptrorhynchus baudinii</i> (Baudin's Cockatoo (long-billed black-cockatoo), Baudin's Cockatoo)		T	
4.	24734 <i>Calyptrorhynchus latirostris</i> (Carnaby's Cockatoo (short-billed black-cockatoo), Carnaby's Cockatoo)		T	
5.	17112 <i>Grevillea maccutcheonii</i>		T	
Protected under international agreement				
6.	25558 <i>Ardea ibis</i> (Cattle Egret)		IA	
7.	24338 <i>Ardea ibis</i> subsp. <i>coromanda</i> (Cattle Egret)		IA	
8.	41324 <i>Ardea modesta</i> (Eastern Great Egret)		IA	
9.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)		IA	
10.	24808 <i>Tringa nebularia</i> (Common Greenshank)		IA	
Other specially protected fauna				
11.	25624 <i>Falco peregrinus</i> (Peregrine Falcon)		S	
12.	24475 <i>Falco peregrinus</i> subsp. <i>macropus</i> (Australian Peregrine Falcon)		S	
Priority 2				
13.	3237 <i>Acacia benthamii</i>		P2	
Priority 3				
14.	25249 <i>Neelaps calonotos</i> (Black-striped Snake)		P3	
Priority 4				
15.	5133 <i>Hibbertia helianthemoides</i>		P4	
16.	24215 <i>Hydromys chrysogaster</i> (Water-rat)		P4	
17.	4027 <i>Jacksonia sericea</i> (Waldjumi)		P4	
18.	24133 <i>Macropus irma</i> (Western Brush Wallaby)		P4	
19.	24328 <i>Oxyura australis</i> (Blue-billed Duck)		P4	
20.	33992 <i>Synemon gratiosa</i> (Graceful Sunmoth)		P4	
Priority 5				
21.	25478 <i>Isodon obesulus</i> (Southern Brown Bandicoot)		P5	
22.	24153 <i>Isodon obesulus</i> subsp. <i>fusciventer</i> (Quenda, Southern Brown Bandicoot)		P5	
Non-conservation taxon				
23.	15466 <i>Acacia applanata</i>			
24.	3262 <i>Acacia cochlearis</i> (Rigid Wattle)			
25.	3374 <i>Acacia huegelii</i>			
26.	18217 <i>Acacia iteaphylla</i>	Y		
27.	11611 <i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
28.	17861	<i>Acacia longifolia</i>	Y		
29.	3502	<i>Acacia pulchella</i> (Prickly Moses)			
30.	15481	<i>Acacia pulchella</i> var. <i>glaberrima</i>			
31.	30032	<i>Acacia saligna</i> subsp. <i>saligna</i>			
32.	3541	<i>Acacia sessilis</i>			
33.	3557	<i>Acacia stenoptera</i> (Narrow Winged Wattle)			
34.		<i>Acanthistius serratus</i>			
35.	24260	<i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
36.	24261	<i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
37.	24262	<i>Acanthiza inornata</i> (Western Thornbill)			
38.	24560	<i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
39.	25535	<i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
40.	24281	<i>Accipiter cirrocephalus</i> subsp. <i>cirrocephalus</i> (Collared Sparrowhawk)			
41.	25536	<i>Accipiter fasciatus</i> (Brown Goshawk)			
42.	24282	<i>Accipiter fasciatus</i> subsp. <i>fasciatus</i> (Brown Goshawk)			
43.	42368	<i>Acritoscincus trilineatus</i> (Western Three-lined Skink)			
44.	25755	<i>Acrocephalus australis</i> (Australian Reed Warbler)			
45.	1775	<i>Adenanthos cygnorum</i> (Common Woollybush)			
46.	184	<i>Aira caryophyllea</i> (Silvery Hairgrass)	Y		
47.	185	<i>Aira cupaniana</i> (Silvery Hairgrass)	Y		
48.	1056	<i>Alexgeorgea nitens</i>			
49.	1728	<i>Allocasuarina fraseriana</i> (Sheoak, Kondi)			
50.	1732	<i>Allocasuarina humilis</i> (Dwarf Sheoak)			
51.		<i>Amanita</i> sp.			
52.	38756	<i>Amanita umbrinella</i>			
53.		<i>Amblyomma triguttatum</i>			
54.		<i>Amegilla</i> (asaropoda)			
55.	200	<i>Amphipogon turbinatus</i>			
56.		<i>Aname mainae</i>			
57.		<i>Aname tepperi</i>			
58.	24312	<i>Anas gracilis</i> (Grey Teal)			
59.	24313	<i>Anas platyrhynchos</i> (Mallard)			
60.	24315	<i>Anas rhynchotis</i> (Australasian Shoveler)			
61.	24316	<i>Anas superciliosa</i> (Pacific Black Duck)			
62.		<i>Anax papuensis</i>			
63.		<i>Ancita marginicollis</i>			
64.		<i>Ancita</i> sp.			
65.	25553	<i>Anhinga melanogaster</i> (Darter)			
66.		<i>Anhinga novaehollandiae</i>			
67.	1409	<i>Anigozanthos humilis</i> (Catspaw)			
68.	11434	<i>Anigozanthos humilis</i> subsp. <i>humilis</i>			
69.	1411	<i>Anigozanthos manglesii</i> (Mangles Kangaroo Paw, Kurulbrang)			
70.	11261	<i>Anigozanthos manglesii</i> subsp. <i>manglesii</i>			
71.	24561	<i>Anthochaera carunculata</i> (Red Wattlebird)			
72.	24562	<i>Anthochaera lunulata</i> (Western Little Wattlebird)			
73.		<i>Antichiropus variabilis</i>			
74.		<i>Antichiropus whistleri</i>			
75.	3688	<i>Aotus gracillima</i>			
76.	3692	<i>Aotus procumbens</i>			
77.	41824	<i>Aotus</i> sp. <i>Diffusa</i> (W.E. Blackall & C.A. Gardner 1739)			
78.		<i>Aploactisoma milesii</i>			
79.	24991	<i>Aprasia repens</i> (Sand-plain Worm-lizard)			
80.		<i>Aracana aurita</i>			
81.		<i>Araneus eburnus</i>			
82.	7838	<i>Arctotheca calendula</i> (Cape Weed)	Y		
83.	38973	<i>Arcyria pomiformis</i>			
84.		<i>Arcyria</i> sp.			
85.	24340	<i>Ardea novaehollandiae</i> (White-faced Heron)			
86.	24341	<i>Ardea pacifica</i> (White-necked Heron)			
87.		<i>Arenopsis fullo</i>			
88.		<i>Argiope protensa</i>			
89.	1264	<i>Arnocrinum preissii</i>			
90.		<i>Artoria linnaei</i>			
91.		<i>Artoriopsis expolita</i>			
92.	8779	<i>Asparagus asparagoides</i> (Bridal Creeper)	Y		
93.	1364	<i>Asphodelus fistulosus</i> (Onion Weed)	Y		
94.	20283	<i>Astartea scoparia</i>			
95.	7851	<i>Asteridea pulverulenta</i> (Common Bristle Daisy)			
96.	6334	<i>Astroloma pallidum</i> (Kick Bush)			
97.	6339	<i>Astroloma xerophyllum</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
98.	<i>Austracantha minax</i>			
99.	<i>Austrodrymus flindersi</i>			Y
100.	17234 <i>Austrostipa compressa</i>			
101.	17238 <i>Austrostipa eremophila</i>			
102.	17240 <i>Austrostipa flavescens</i>			
103.	17241 <i>Austrostipa hemipogon</i>			
104.	<i>Austrothemis nigrescens</i>			
105.	233 <i>Avena barbata</i> (Bearded Oat)	Y		
106.	234 <i>Avena fatua</i> (Wild Oat)	Y		
107.	24318 <i>Aythya australis</i> (Hardhead)			
108.	18279 <i>Babiana angustifolia</i>	Y		
109.	36441 <i>Babingtonia camphorosmae</i> (Camphor Myrtle)			
110.	<i>Badumna insignis</i>			
111.	<i>Ballarra longipalpus</i>			
112.	1800 <i>Banksia attenuata</i> (Slender Banksia, Piara)			
113.	32580 <i>Banksia dallanneyi</i> var. <i>dallanneyi</i>			
114.	1822 <i>Banksia ilicifolia</i> (Holly-leaved Banksia)			
115.	1834 <i>Banksia menziesii</i> (Firewood Banksia)			
116.	32203 <i>Banksia nivea</i> subsp. <i>nivea</i>			
117.	32315 <i>Barbula calycina</i>			
118.	<i>Barnardius zonarius</i>			
119.	38765 <i>Battarrea stevenii</i>			
120.	<i>Baumea</i> sp.			
121.	5382 <i>Beaufortia elegans</i>			
122.	25788 <i>Billardiera fraseri</i> (Elegant Pronaya)			
123.	24319 <i>Biziura lobata</i> (Musk Duck)			
124.	17665 <i>Boronia purdieana</i> subsp. <i>purdieana</i>			
125.	4438 <i>Boronia ramosa</i>			
126.	11381 <i>Boronia ramosa</i> subsp. <i>anethifolia</i>			
127.	3710 <i>Bossiaea eriocarpa</i> (Common Brown Pea)			
128.	<i>Brachaluteres jacksonianus</i>			
129.	7867 <i>Brachyscome bellidioides</i>			
130.	42381 <i>Brachyurophis semifasciatus</i> (Southern Shovel-nosed Snake)			
131.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
132.	245 <i>Briza minor</i> (Shivery Grass)	Y		
133.	249 <i>Bromus diandrus</i> (Great Brome)	Y		
134.	12770 <i>Burchardia congesta</i>			
135.	24359 <i>Burhinus grallarius</i> (Bush Stone-curlew)			
136.	25713 <i>Cacatua galerita</i> (Sulphur-crested Cockatoo)			
137.	25714 <i>Cacatua pastinator</i> (Western Long-billed Corella)			
138.	25716 <i>Cacatua sanguinea</i> (Little Corella)			
139.	<i>Cacatua</i> sp.			
140.	24729 <i>Cacatua tenuirostris</i> (Eastern Long-billed Corella)	Y		
141.	25598 <i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)			
142.	42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)			
143.	1277 <i>Caesia occidentalis</i>			
144.	15330 <i>Caladenia arenicola</i>			
145.	1586 <i>Caladenia discoidea</i> (Dancing Orchid)			
146.	15348 <i>Caladenia flava</i> subsp. <i>flava</i>			
147.	18019 <i>Caladenia vulgata</i>			
148.	2848 <i>Calandrinia corrigioloides</i> (Strap Purslane)			
149.	2854 <i>Calandrinia granulifera</i> (Pygmy Purslane)			
150.	2856 <i>Calandrinia liniflora</i> (Parakeelya)			
151.	19309 <i>Calectasia narragara</i>			
152.	96 <i>Callitris preissii</i> (Rottnest Island Pine, Maro)			
153.	5428 <i>Calothamnus rupestris</i> (Mouse Ears)			
154.	5429 <i>Calothamnus sanguineus</i> (Silky-leaved Blood flower, Pindak)			
155.	<i>Calyptorhynchus (Zanda) latirostris</i>			
156.	25717 <i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
157.	5437 <i>Calytrix acutifolia</i>			
158.	5439 <i>Calytrix angulata</i> (Yellow Starflower)			
159.	5458 <i>Calytrix flavescens</i> (Summer Starflower)			
160.	5460 <i>Calytrix fraseri</i> (Pink Summer Calytrix)			
161.	30883 <i>Canis lupus</i> subsp. <i>familiaris</i> (Dog)	Y		
162.	18555 <i>Cardamine</i> sp. <i>Jandakot</i> (P. Luff s.n. 4/7/1969)	Y		
163.	755 <i>Carex fascicularis</i> (Tassel Sedge)			
164.	25015 <i>Carlia munda</i> (Shaded-litter Rainbow Skink)			
165.	1162 <i>Cartonema phylloides</i>			
166.	2952 <i>Cassytha glabella</i> (Tangled Dodder Laurel)			
167.	<i>Catasarcus asphaltinus</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
168.	<i>Catasarcus bilineatus</i>			
169.	<i>Catasarcus cygnensis</i>			
170.	<i>Catasarcus nephelodes</i>			
171.	258 <i>Cenchrus ciliaris</i> (Buffel Grass)	Y		
172.	6539 <i>Centaurium erythraea</i> (Common Centaury)	Y		
173.	6214 <i>Centella asiatica</i>			
174.	1125 <i>Centrolepis drummondiana</i>			
175.	2889 <i>Cerastium glomeratum</i> (Mouse Ear Chickweed)	Y		
176.	<i>Cercophonius granulosus</i>			
177.	<i>Cercophonius sulcatus</i>			
178.	<i>Chaetodermis penicilligera</i>			
179.	<i>Chaetodon assarius</i>			
180.	24186 <i>Chalinolobus gouldii</i> (Gould's Wattled Bat)			
181.	1280 <i>Chamaescilla corymbosa</i> (Blue Squill)			
182.	5498 <i>Chamaelaucium uncinatum</i> (Geraldton Wax)			
183.	1513 <i>Chasmanthe floribunda</i> (African Cornflag)	Y		
184.	<i>Cheilodactylus nigripes</i>			
185.	<i>Cheilodactylus spectabilis</i>			
186.	24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			
187.	<i>Cheramoeca leucosterna</i>			
188.	7925 <i>Chondrilla juncea</i> (Skeleton Weed)	Y		
189.	17833 <i>Chordifex microcodon</i>			
190.	17706 <i>Chordifex sinuosus</i>			
191.	24980 <i>Christinus marmoratus</i> (Marbled Gecko)			
192.	<i>Chrysopogon melanorrhinus</i>			
193.	24288 <i>Circus approximans</i> (Swamp Harrier)			
194.	7937 <i>Cirsium vulgare</i> (Spear Thistle, Scotch Thistle)	Y		
195.	<i>Cleidopus gloriamaris</i>			
196.	<i>Clivina</i> sp.			
197.	38984 <i>Collaria arcyrionema</i>			
198.	<i>Collaria</i> sp.			Y
199.	24613 <i>Colluricincla harmonica</i> subsp. <i>rufiventris</i> (Grey Shrike-thrush)			
200.	24399 <i>Columba livia</i> (Domestic Pigeon)	Y		
201.	<i>Colus pusillus</i>			
202.	38986 <i>Comatricha elegans</i>			
203.	38987 <i>Comatricha ellae</i>			
204.	4550 <i>Comesperma calymega</i> (Blue-spike Milkwort)			
205.	15607 <i>Conospermum acerosum</i> subsp. <i>acerosum</i>			
206.	1876 <i>Conospermum incurvum</i> (Plume Smokebush)			
207.	1882 <i>Conospermum stoechadis</i> (Common Smokebush)			
208.	15611 <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> (Common Smokebush)			
209.	6348 <i>Conostephium pendulum</i> (Pearl Flower)			
210.	6349 <i>Conostephium preissii</i>			
211.	<i>Conostephium</i> sp.			
212.	1418 <i>Conostylis aculeata</i> (Prickly Conostylis)			
213.	11513 <i>Conostylis aculeata</i> subsp. <i>cygnorum</i>			
214.	1423 <i>Conostylis aurea</i> (Golden Conostylis)			
215.	11438 <i>Conostylis candicans</i> subsp. <i>candicans</i>			
216.	1436 <i>Conostylis juncea</i>			
217.	1454 <i>Conostylis setigera</i> (Bristly Cottonhead)			
218.	11597 <i>Conostylis setigera</i> subsp. <i>setigera</i>			
219.	<i>Conostylis</i> sp.			
220.	7939 <i>Conyza bonariensis</i> (Flaxleaf Fleabane)	Y		
221.	7941 <i>Conyza parva</i>	Y		
222.	24361 <i>Coracina maxima</i> (Ground Cuckoo-shrike)			
223.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
224.	24363 <i>Coracina novaehollandiae</i> subsp. <i>subpallida</i> (Black-faced Cuckoo-shrike)			
225.	277 <i>Cortaderia selloana</i> (Pampas Grass)	Y		
226.	<i>Cortinarius</i> sp.			
227.	25592 <i>Corvus coronoides</i> (Australian Raven)			
228.	24417 <i>Corvus coronoides</i> subsp. <i>perplexus</i> (Australian Raven)			
229.	24418 <i>Corvus orru</i> subsp. <i>ceciliae</i> (Western Crow)			
230.	1285 <i>Corynotheca micrantha</i> (Sand Lily)			
231.	11283 <i>Corynotheca micrantha</i> var. <i>micrantha</i>			
232.	7947 <i>Cotula turbinata</i> (Funnel Weed)	Y		
233.	24420 <i>Cracticus nigrogularis</i> (Pied Butcherbird)			
234.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
235.	24422 <i>Cracticus tibicen</i> subsp. <i>dorsalis</i> (White-backed Magpie)			
236.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
237.	3137 <i>Crassula colorata</i> (Dense Stonecrop)			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
238.	11709	<i>Crassula colorata</i> var. <i>acuminata</i>			
239.	11563	<i>Crassula colorata</i> var. <i>colorata</i>			
240.	39003	<i>Cribraria minutissima</i>			
241.		<i>Crustulina bicrucata</i>			
242.	30893	<i>Cryptoblepharus buehnanii</i>			
243.	25020	<i>Cryptoblepharus plagiocephalus</i>			
244.		<i>Cryptoerithus quobba</i>			
245.	25458	<i>Ctenophorus caudicinctus</i> (Ring-tailed Dragon)			
246.	25027	<i>Ctenotus australis</i>			
247.	25039	<i>Ctenotus fallens</i>			
248.	25073	<i>Ctenotus saxatilis</i> (Rock Ctenotus)			
249.	769	<i>Cyathochaeta clandestina</i>			
250.	24322	<i>Cygnus atratus</i> (Black Swan)			
251.	810	<i>Cyperus rotundus</i> (Nut Grass)	Y		
252.	30901	<i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
253.		<i>Dactylopus dactylopus</i>			
254.	7454	<i>Dampiera linearis</i> (Common Dampiera)			
255.	1218	<i>Dasypogon bromeliifolius</i> (Pineapple Bush)			
256.	6218	<i>Daucus glochidiatus</i> (Australian Carrot)			
257.	3807	<i>Daviesia divaricata</i> (Marno)			
258.	18560	<i>Daviesia divaricata</i> subsp. <i>divaricata</i>			
259.	3824	<i>Daviesia nudiflora</i>			
260.	3831	<i>Daviesia pedunculata</i>			
261.	3832	<i>Daviesia physodes</i>			
262.	3845	<i>Daviesia triflora</i>			
263.	25766	<i>Delma fraseri</i> (Fraser's Legless Lizard)			
264.	24999	<i>Delma grayii</i>			
265.	25002	<i>Delma pax</i>			
266.	25295	<i>Demansia psammophis</i> subsp. <i>cupreiceps</i> (Yellow-faced Whipsnake)			
267.	17663	<i>Desmocladius asper</i>			
268.	17691	<i>Desmocladius fasciculatus</i>			
269.	16595	<i>Desmocladius flexuosus</i>			
270.	1259	<i>Dianella revoluta</i> (Blueberry Lily)			
271.		<i>Diaphanops</i> sp.			
272.	25607	<i>Dicaeum hirundinaceum</i> (Mistletoebird)			
273.	39018	<i>Didymium bahiense</i>			
274.		<i>Dingosa serrata</i>			
275.		<i>Diphucephala edwardsii</i>			
276.		<i>Diplacodes bipunctata</i>			
277.		<i>Diplacodes haematodes</i>			
278.	24939	<i>Diplodactylus polyophthalmus</i>			
279.	24944	<i>Diplodactylus savagei</i> (Southern Pilbara Beak-faced Gecko)			
280.	4453	<i>Diplolaena angustifolia</i> (Yanchep Rose)			
281.	24899	<i>Diporiphora valens</i> (Southern Pilbara Tree Dragon)			
282.	19649	<i>Disa bracteata</i>	Y		
283.	7055	<i>Dischisma capitatum</i> (Woolly-headed Dischisma)	Y		
284.	11049	<i>Diuris corymbosa</i>			
285.	12939	<i>Diuris magnifica</i>			
286.	3095	<i>Drosera erythrorhiza</i> (Red Ink Sundew)			
287.	13217	<i>Drosera erythrorhiza</i> subsp. <i>erythrorhiza</i>			
288.	3098	<i>Drosera glanduligera</i> (Pimpernel Sundew)			
289.	3106	<i>Drosera macrantha</i> (Bridal Rainbow)			
290.	3109	<i>Drosera menziesii</i> (Pink Rainbow)			
291.	13216	<i>Drosera menziesii</i> subsp. <i>penicillaris</i>			
292.	3117	<i>Drosera paleacea</i> (Dwarf Sundew)			
293.	13188	<i>Drosera paleacea</i> subsp. <i>paleacea</i>			
294.	3118	<i>Drosera pallida</i> (Pale Rainbow)			
295.	329	<i>Echinochloa crus-galli</i> (South American Barnyard Grass)	Y		
296.	39029	<i>Echinostelium minutum</i>			
297.		<i>Egretta garzetta</i>			
298.		<i>Egretta novaehollandiae</i>			
299.	347	<i>Ehrharta calycina</i> (Perennial Veldt Grass)	Y		
300.	349	<i>Ehrharta longiflora</i> (Annual Veldt Grass)	Y		
301.		<i>Elanus axillaris</i>			
302.		<i>Elseyonis melanops</i>			
303.	1643	<i>Elythranthera brunonis</i> (Purple Enamel Orchid)			
304.	2409	<i>Emex australis</i> (Doublegee)	Y		
305.	39030	<i>Enerthenema papillatum</i>			
306.		<i>Entoloma</i> sp.			
307.		<i>Eolophus roseicapillus</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
308.	24567	<i>Ephianura albifrons</i> (White-fronted Chat)			
309.	376	<i>Eragrostis curvula</i> (African Lovegrass)	Y		
310.	13949	<i>Eremaea asterocarpa</i>			
311.	5541	<i>Eremaea pauciflora</i>			
312.	14104	<i>Eremaea pauciflora</i> var. <i>pauciflora</i>			
313.	5542	<i>Eremaea purpurea</i>			
314.	15410	<i>Eriochilus dilatatus</i> subsp. <i>dilatatus</i>			
315.	15412	<i>Eriochilus dilatatus</i> subsp. <i>multiflorus</i>			
316.		<i>Eriophora biapicata</i>			
317.		<i>Ero aphan</i>			
318.	4332	<i>Erodium botrys</i> (Long Storksbill)	Y		
319.	4333	<i>Erodium cicutarium</i> (Common Storksbill)	Y		
320.	6219	<i>Eryngium pinnatifidum</i> (Blue Devils)			
321.		<i>Erythracarus decoris</i>			
322.	5659	<i>Eucalyptus gomphocephala</i> (Tuart, Duart)			
323.	5708	<i>Eucalyptus marginata</i> (Jarrah, Djara)			
324.	13547	<i>Eucalyptus marginata</i> subsp. <i>marginata</i> (Jarrah)			
325.	5763	<i>Eucalyptus rudis</i> (Flooded Gum, Kulurda)			
326.	5790	<i>Eucalyptus todtiana</i> (Coastal Blackbutt)			
327.	3872	<i>Euchilopsis linearis</i> (Swamp Pea)			
328.	4627	<i>Euphorbia helioscopia</i> (Sun Spurge)	Y		
329.	4638	<i>Euphorbia peplus</i> (Petty Spurge)	Y		
330.	4648	<i>Euphorbia terracina</i> (Geraldton Carnation Weed)	Y		
331.	10765	<i>Exocarpos sparteus</i> (Broom Ballart, Djuk)			
332.	25622	<i>Falco cenchroides</i> (Australian Kestrel)			
333.	25623	<i>Falco longipennis</i> (Australian Hobby)			
334.	24474	<i>Falco longipennis</i> subsp. <i>longipennis</i> (Australian Hobby)			
335.	24041	<i>Felis catus</i> (Cat)	Y		
336.		<i>Flavoparmelia</i> sp.			
337.	6221	<i>Foeniculum vulgare</i> (Fennel)	Y		
338.	18392	<i>Freesia alba</i> x <i>leichtlinii</i>	Y		
339.	25727	<i>Fulica atra</i> (Eurasian Coot)			
340.	24761	<i>Fulica atra</i> subsp. <i>australis</i> (Eurasian Coot)			
341.	2969	<i>Fumaria capreolata</i> (Whiteflower Fumitory)	Y		
342.		<i>Furgaleus macki</i>			
343.	11571	<i>Galenia pubescens</i> var. <i>pubescens</i>	Y		
344.	7976	<i>Galinsoga parviflora</i> (Potato Weed)	Y		
345.	25729	<i>Gallinula tenebrosa</i> (Dusky Moorhen)			
346.	25730	<i>Gallirallus philippensis</i> (Buff-banded Rail)			
347.	20346	<i>Gamochaeta coarctata</i>	Y		
348.	20475	<i>Gastrolobium capitatum</i>			
349.	20473	<i>Gastrolobium ebracteolatum</i>			
350.	20483	<i>Gastrolobium linearifolium</i>			
351.	16311	<i>Gazania linearis</i>	Y		
352.		<i>Geastrum</i> sp.			
353.	24959	<i>Gehyra variegata</i>			
354.		<i>Geitoneura klugii</i>			
355.	25530	<i>Gerygone fusca</i> (Western Gerygone)			
356.	24271	<i>Gerygone fusca</i> subsp. <i>fusca</i> (Western Gerygone)			
357.		<i>Girella tephraeops</i>			
358.	1520	<i>Gladiolus caryophyllaceus</i> (Wild Gladiolus)	Y		
359.		<i>Gnathoxys</i> sp.			
360.	6587	<i>Gomphocarpus fruticosus</i> (Narrowleaf Cottonbush)	Y		
361.	10909	<i>Gompholobium confertum</i>			
362.	11083	<i>Gompholobium scabrum</i>			
363.	3957	<i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			
364.	6161	<i>Gonocarpus pithyoides</i>			
365.	7538	<i>Goodenia pulchella</i>			
366.	24443	<i>Grallina cyanoleuca</i> (Magpie-lark)			
367.	2032	<i>Grevillea leucopteris</i> (White Plume Grevillea)			
368.	2119	<i>Grevillea vestita</i>			
369.		<i>Gymnapistes marmoratus</i>			
370.	2788	<i>Gyrostemon subnudus</i>			
371.	1468	<i>Haemodorum laxum</i>			
372.	1475	<i>Haemodorum spicatum</i> (Mardja)			
373.	2143	<i>Hakea conchifolia</i> (Shell-leaved Hakea)			
374.	2175	<i>Hakea lissocarpha</i> (Honey Bush)			
375.	2197	<i>Hakea prostrata</i> (Harsh Hakea)			
376.	2203	<i>Hakea ruscifolia</i> (Candle Hakea)			
377.	24295	<i>Haliastur sphenurus</i> (Whistling Kite)			

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378.	24689	<i>Halobaena caerulea</i> (Blue Petrel)			
379.	3961	<i>Hardenbergia comptoniana</i> (Native Wisteria)			
380.		<i>Harmonia conformis</i>			
381.	38791	<i>Hebeloma crustuliniforme</i>			
382.	25410	<i>Heleioporus eyrei</i> (Moaning Frog)			
383.	3016	<i>Heliophila pusilla</i>	Y		
384.	16933	<i>Hemiandra glabra</i>			
385.	6838	<i>Hemiandra linearis</i> (Speckled Snakebush)			
386.	6839	<i>Hemiandra pungens</i> (Snakebush)			
387.		<i>Hemicordulia australiae</i>			
388.		<i>Hemicordulia tau</i>			
389.	25475	<i>Hemiergis peronii</i>			
390.	25119	<i>Hemiergis quadrilineata</i>			
391.		<i>Henicops dentatus</i>			
392.		<i>Hesperocordulia berthoudi</i>			
393.	24961	<i>Heteronotia binoei</i> (Bynoe's Gecko)			
394.		<i>Heteronympha merope</i> subsp. <i>duboulayi</i>			
395.	5108	<i>Hibbertia acerosa</i> (Needle Leaved Guinea Flower)			
396.	5112	<i>Hibbertia aurea</i>			
397.	5116	<i>Hibbertia crassifolia</i>			
398.	5134	<i>Hibbertia huegelii</i>			
399.	5135	<i>Hibbertia hypericoides</i> (Yellow Buttercups)			
400.	5162	<i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
401.	5173	<i>Hibbertia subvaginata</i>			
402.	25734	<i>Himantopus himantopus</i> (Black-winged Stilt)			
403.		<i>Himantura toshi</i>			
404.	24491	<i>Hirundo neoxena</i> (Welcome Swallow)			
405.	24492	<i>Hirundo nigricans</i> subsp. <i>nigricans</i> (Tree Martin)			
406.		<i>Hogna crispipes</i>			
407.		<i>Hohenbuehelia</i> sp.			
408.	6222	<i>Homalosciadium homalocarpum</i>			
409.	3966	<i>Hovea pungens</i> (Devil's Pins, Puyenak)			
410.	3968	<i>Hovea trisperma</i> (Common Hovea)			
411.	12859	<i>Hovea trisperma</i> var. <i>trisperma</i>			
412.	5216	<i>Hybanthus calycinus</i> (Wild Violet)			
413.		<i>Hylaeus (euprosopoides)</i>			
414.	452	<i>Hyparrhenia hirta</i> (Tambookie Grass)	Y		
415.	35070	<i>Hypocalymma angustifolium</i> subsp. <i>Swan Coastal Plain (G.J. Keighery 16777)</i>			
416.	5825	<i>Hypocalymma robustum</i> (Swan River Myrtle)			
417.	8086	<i>Hypochaeris glabra</i> (Smooth Catsear)	Y		
418.		<i>Hypochrysops halyaetus</i>			
419.	1070	<i>Hypolaena exsulca</i>			
420.		<i>Idiommatia blackwalli</i>			
421.	917	<i>Isolepis marginata</i> (Coarse Club-rush)			
422.		<i>Isometroides vesus</i>			
423.		<i>Isopeda leishmanni</i>			
424.	7396	<i>Isotoma hypocrateriformis</i> (Woodbridge Poison)			
425.	3992	<i>Isotropis cuneifolia</i> (Granny Bonnets)			
426.	19700	<i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>			
427.		<i>Ixobrychus dubius</i>			
428.	4010	<i>Jacksonia floribunda</i> (Holly Pea)			
429.	4012	<i>Jacksonia furcellata</i> (Grey Stinkwood)			
430.	4029	<i>Jacksonia sternbergiana</i> (Stinkwood, Kapur)			
431.	1295	<i>Johnsonia acaulis</i>			
432.	1188	<i>Juncus pallidus</i> (Pale Rush)			
433.		<i>Kawanaphila nartee</i>			
434.	4044	<i>Kennedia prostrata</i> (Scarlet Runner)			
435.		<i>Kobonga umbrimargo</i>			
436.	15498	<i>Kunzea glabrescens</i> (Spearwood)			
437.		<i>Laccaria canaliculata</i>			
438.	38802	<i>Laccocephalum tumulosum</i>			
439.	16091	<i>Lachenalia bulbifera</i>	Y		
440.	18585	<i>Lagenophora huegelii</i>			
441.		<i>Lampides boeticus</i>			
442.		<i>Lampona cylindrata</i>			
443.		<i>Lamponina elongata</i>			
444.		<i>Latrodectus hasseltii</i>			
445.	38324	<i>Lavandula dentata</i> var. <i>candicans</i>	Y		
446.	1307	<i>Laxmannia ramosa</i> (Branching Lily)			
447.	11464	<i>Laxmannia sessiliflora</i> subsp. <i>australis</i>			

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448.	1309	<i>Laxmannia squarrosa</i>			
449.	7568	<i>Lechenaultia biloba</i> (Blue Leschenaultia)			
450.	7574	<i>Lechenaultia floribunda</i> (Free-flowering Leschenaultia)			
451.	7580	<i>Lechenaultia linarioides</i> (Yellow Leschenaultia)			
452.	18074	<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>			
453.	925	<i>Lepidosperma angustatum</i>			
454.	940	<i>Lepidosperma pubisquameum</i>			
455.	944	<i>Lepidosperma scabrum</i>			
456.		<i>Lepidosperma</i> sp.			
457.	945	<i>Lepidosperma squamatum</i>			
458.	946	<i>Lepidosperma striatum</i>			
459.	1653	<i>Leporella fimbriata</i> (Hare Orchid)			
460.	2350	<i>Leptomeria pauciflora</i> (Sparse-flowered Currant Bush)			
461.	5850	<i>Leptospermum laevigatum</i> (Coast Teatree)	Y		
462.	5857	<i>Leptospermum spinescens</i>			
463.		<i>Leptosphaeria</i> sp.			
464.	1090	<i>Lepyrodia muirii</i>			
465.	25133	<i>Lerista elegans</i>			
466.	30929	<i>Lerista jacksoni</i>			
467.	25148	<i>Lerista lineopunctulata</i>			
468.	25165	<i>Lerista praepedita</i>			
469.	6374	<i>Leucopogon conostephioides</i>			
470.	6427	<i>Leucopogon parviflorus</i> (Coast Beard-heath)			
471.	6434	<i>Leucopogon polymorphus</i>			
472.	6436	<i>Leucopogon propinquus</i>			
473.	7676	<i>Levenhookia pusilla</i> (Midget Stylewort)			
474.	7677	<i>Levenhookia stipitata</i> (Common Stylewort)			
475.	25005	<i>Lialis burtonis</i>			
476.	39041	<i>Licea kleistobolus</i>			
477.	25659	<i>Lichenostomus leucotis</i> (White-eared Honeyeater)			
478.	25661	<i>Lichmera indistincta</i> (Brown Honeyeater)			
479.	24582	<i>Lichmera indistincta</i> subsp. <i>indistincta</i> (Brown Honeyeater)			
480.	25415	<i>Limnodynastes dorsalis</i> (Western Banjo Frog)			
481.	7075	<i>Linaria maroccana</i>	Y		
482.		<i>Listroderes delaiguei</i>			
483.		<i>Listroderes</i> sp.			
484.	25378	<i>Litoria adelaidensis</i> (Slender Tree Frog)			
485.	25388	<i>Litoria moorei</i> (Motorbike Frog)			
486.	7402	<i>Lobelia gibbosa</i> (Tall Lobelia)			
487.	7408	<i>Lobelia tenuior</i> (Slender Lobelia)			
488.	3048	<i>Lobularia maritima</i> (Sweet Alyssum)	Y		
489.	1223	<i>Lomandra caespitosa</i> (Tufted Mat Rush)			
490.	1228	<i>Lomandra hermaphrodita</i>			
491.	1234	<i>Lomandra nigricans</i>			
492.	1239	<i>Lomandra preissii</i>			
493.	1246	<i>Lomandra suaveolens</i>			
494.	25683	<i>Lonchura castaneothorax</i> (Chestnut-breasted Mannikin)			
495.		<i>Longepi woodman</i>			
496.	4059	<i>Lotus angustissimus</i> (Narrowleaf Trefoil)	Y		
497.	8564	<i>Lotus subbiflorus</i>	Y		
498.	30933	<i>Lucasium stenodactylum</i>			
499.	30934	<i>Lucasium wombeyi</i>			
500.		<i>Lycosa australicola</i>			
501.		<i>Lycosa gilberta</i>			
502.	1097	<i>Lyginia barbata</i>			
503.	18049	<i>Lyginia imberbis</i>			
504.	6456	<i>Lysinema ciliatum</i> (Curry Flower)			
505.	34736	<i>Lysinema pentapetalum</i>			
506.	2839	<i>Macarthuria australis</i>			
507.		<i>Macarthuria</i> sp.			
508.	24132	<i>Macropus fuliginosus</i> (Western Grey Kangaroo)			
509.	18119	<i>Macrozamia fraseri</i>			
510.	85	<i>Macrozamia riedlei</i> (<i>Zamia</i> , Djiridji)			
511.	25651	<i>Malurus lamberti</i> (Variegated Fairy-wren)			
512.	25654	<i>Malurus splendens</i> (Splendid Fairy-wren)			
513.	24583	<i>Manorina flavigula</i> (Yellow-throated Miner)			
514.		<i>Marasmiellus</i> sp.			
515.		<i>Maratus pavonis</i>			
516.		<i>Masasteron tuart</i>			
517.	17694	<i>Meeboldina scariosa</i>			

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518.	<i>Megachile (Schizomegachile) monstrosa</i>			
519.	<i>Megachile</i> sp.			
520.	25758 <i>Megalurus gramineus</i> (Little Grassbird)			
521.	5900 <i>Melaleuca cuticularis</i> (Saltwater Paperbark)			
522.	5952 <i>Melaleuca preissiana</i> (Moonah)			
523.	5964 <i>Melaleuca seriata</i>			
524.	<i>Melaleuca</i> sp.			
525.	<i>Melobasis lathamii</i>			
526.	25184 <i>Menetia greyii</i>			
527.	<i>Mesodina cyanophracta</i>			
528.	955 <i>Mesomelaena pseudostygia</i>			
529.	<i>Meuschenia trachylepis</i>			
530.	<i>Microcanthus strigatus</i>			
531.	<i>Microcarbo melanoleucos</i>			
532.	485 <i>Microlaena stipoides</i> (Weeping Grass)			
533.	15419 <i>Microtis media</i> subsp. <i>media</i>			
534.	8105 <i>Millotia myosotidifolia</i>			
535.	8106 <i>Millotia tenuifolia</i> (Soft Millotia)			
536.	<i>Missulena granulosa</i>			
537.	<i>Missulena occatoria</i>			
538.	<i>Mituliodon tarantulinus</i>			
539.	<i>Molycris vokes</i>			
540.	29418 <i>Monoculus monstrosus</i>	Y		
541.	4662 <i>Monotaxis grandiflora</i> (Diamond of the Desert)			
542.	19585 <i>Monotaxis grandiflora</i> var. <i>grandiflora</i>			
543.	<i>Monotaxis</i> sp.			
544.	19179 <i>Moraea flaccida</i> (One-leaf Cape Tulip)	Y		
545.	25191 <i>Morethia lineoocellata</i>			
546.	25192 <i>Morethia obscura</i>			
547.	25495 <i>Morethia ruficauda</i>			
548.	<i>Myandra bicincta</i>			
549.	25420 <i>Myobatrachus gouldii</i> (Turtle Frog)			
550.	44496 <i>Narcissus tazetta</i> subsp. <i>italicus</i>	Y		
551.	25248 <i>Neelaps bimaculatus</i> (Black-naped Snake)			
552.	<i>Neocnecus minor</i>			
553.	<i>Neodon pecuarius</i>			
554.	24738 <i>Neophema elegans</i> (Elegant Parrot)			
555.	<i>Neurachne alopecuroides</i>			
556.	<i>Nicodamus mainae</i>			
557.	25748 <i>Ninox novaeseelandiae</i> (Boobook Owl)			
558.	<i>Noongara issoides</i>			
559.	<i>Notechis ater</i>			
560.	25252 <i>Notechis scutatus</i> (Tiger Snake)			
561.	<i>Notiasemus glauerti</i>			
562.	25499 <i>Notoscincus ornatus</i>			
563.	2401 <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)			
564.	25564 <i>Nycticorax caledonicus</i> (Rufous Night Heron)			
565.	<i>Ocrisiona leucocomis</i>			
566.	24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)			
567.	<i>Odax cyanomelas</i>			
568.	<i>Oecetis pechana</i>			
569.	6138 <i>Oenothera drummondii</i> (Beach Evening Primrose)	Y		
570.	35416 <i>Oenothera lindheimeri</i>	Y		
571.	6142 <i>Oenothera stricta</i> (Common Evening Primrose)	Y		
572.	8133 <i>Olearia elaeophila</i>			
573.	<i>Ommatoiulus moreleti</i>			
574.	<i>Ommatoiulus moreletii</i>			
575.	<i>Omorgus (Omorgus) stellatus</i>			Y
576.	18255 <i>Opercularia vaginata</i> (Dog Weed)			
577.	4114 <i>Ornithopus pinnatus</i> (Slender Serradella)	Y		
578.	7122 <i>Orobancha minor</i> (Lesser Broomrape)	Y		
579.	<i>Orobancha</i> sp.			
580.	<i>Orthetrum caledonicum</i>			
581.	1537 <i>Orthrosanthus laxus</i> (Morning Iris)			
582.	17756 <i>Osteospermum ecklonis</i>	Y		
583.	4356 <i>Oxalis pes-caprae</i> (Soursob)	Y		
584.	4358 <i>Oxalis purpurea</i> (Largeflower Wood Sorrel)	Y		
585.	<i>Ozarchaea westraliensis</i>			
586.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
587.	24624 <i>Pachycephala rufiventris</i> subsp. <i>rufiventris</i> (Rufous Whistler)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
588.	<i>Panus fasciatus</i>			
589.	<i>Paracolletes</i> sp.			
590.	39056 <i>Paradiacheopsis fimbriata</i>			
591.	<i>Paralampona marangaroo</i>			
592.	<i>Paramphisopus</i> sp.			
593.	<i>Paraplectanoides crassipes</i>			
594.	<i>Paraplesiops meleagris</i>			
595.	17114 <i>Paraserianthes lophantha</i> subsp. <i>lophantha</i>			
596.	25253 <i>Parasuta gouldii</i>			
597.	25681 <i>Pardalotus punctatus</i> (Spotted Pardalote)			
598.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
599.	24628 <i>Pardalotus striatus</i> subsp. <i>murchisoni</i> (Striated Pardalote)			
600.	<i>Paropsisterna</i> sp.			
601.	527 <i>Paspalum dilatatum</i>	Y		
602.	1546 <i>Patersonia juncea</i> (Rush Leaved Patersonia)			
603.	1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)			
604.	<i>Pediana occidentalis</i>			
605.	4343 <i>Pelargonium capitatum</i> (Rose Pelargonium)	Y		
606.	<i>Pelates octolineatus</i>			
607.	24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)			
608.	40423 <i>Pentameris airoides</i> (False Hairgrass)	Y		
609.	40424 <i>Pentameris airoides</i> subsp. <i>airoides</i>	Y		
610.	40422 <i>Pentameris pallida</i>	Y		
611.	<i>Periclystus aureolatus</i>			
612.	13911 <i>Persicaria decipiens</i>			
613.	2273 <i>Persoonia saccata</i> (Snottygobble)			
614.	<i>Pestalotiopsis</i> sp.			
615.	24659 <i>Petroica goodenovii</i> (Red-capped Robin)			
616.	2286 <i>Petrophile brevifolia</i>			
617.	2299 <i>Petrophile linearis</i> (Pixie Mops)			
618.	2301 <i>Petrophile macrostachya</i>			
619.	19825 <i>Petrorhagia dubia</i>	Y		
620.	25697 <i>Phalacrocorax carbo</i> (Great Cormorant)			
621.	25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)			
622.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
623.	25699 <i>Phalacrocorax varius</i> (Pied Cormorant)			
624.	<i>Phanerochaete</i> sp.			
625.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
626.	20460 <i>Pheladenia deformis</i>			
627.	<i>Phenasteron longiconductor</i>			
628.	<i>Phenasteron machinosum</i>			Y
629.	18529 <i>Philothea spicata</i> (Pepper and Salt)			
630.	1478 <i>Phlebotrya ciliata</i>			
631.	<i>Pholiota</i> sp.			
632.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
633.	16825 <i>Phyllangium divergens</i>			
634.	16177 <i>Phyllangium paradoxum</i>			
635.	4675 <i>Phyllanthus calycinus</i> (False Boronia)			
636.	39074 <i>Physarum pusillum</i>			
637.	39079 <i>Physarum viride</i>			
638.	2793 <i>Phytolacca octandra</i> (Red Ink Plant)	Y		
639.	<i>Phytophthora cinnamomi</i>			
640.	<i>Phytophthora nicotianae</i>			
641.	6011 <i>Pileanthus peduncularis</i> (Coppercups)			
642.	5232 <i>Pimelea argentea</i> (Silvery Leaved Pimelea)			
643.	5254 <i>Pimelea leucantha</i>			
644.	18117 <i>Pimelea rosea</i> subsp. <i>rosea</i>			
645.	5268 <i>Pimelea sulphurea</i> (Yellow Banjine)			
646.	8165 <i>Pithocarpa pulchella</i> (Beautiful Pithocarpa)			
647.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
648.	6249 <i>Platysace compressa</i> (Tapeworm Plant)			
649.	4524 <i>Platytheca galioides</i>			
650.	25007 <i>Pletholax gracilis</i> subsp. <i>gracilis</i> (Keeled Legless Lizard)			
651.	25704 <i>Podiceps cristatus</i> (Great Crested Grebe)			
652.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
653.	8182 <i>Podotheca angustifolia</i> (Sticky Longheads)			
654.	8183 <i>Podotheca chrysantha</i> (Yellow Podotheca)			
655.	24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)			
656.	24681 <i>Polioccephalus poliocephalus</i> (Hoary-headed Grebe)			
657.	<i>Pomatomus saltatrix</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
658.	4689 <i>Poranthera ericoides</i> (Heath Poranthera)			
659.	4691 <i>Poranthera microphylla</i> (Small Poranthera)			
660.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
661.	24767 <i>Porphyrio porphyrio</i> subsp. <i>bellus</i> (Purple Swamphen)			
662.	24771 <i>Porzana tabuensis</i> (Spotless Crane)			
663.	122 <i>Posidonia angustifolia</i>			
664.	1676 <i>Prasophyllum hians</i> (Yawning Leek Orchid)			
665.	1680 <i>Prasophyllum parvifolium</i> (Autumn Leek Orchid)			
666.	10853 <i>Prasophyllum plumiforme</i>			
667.	<i>Prionosternum nitidiceps</i>			
668.	<i>Prionosternum scutatum</i>			
669.	<i>Psammoperca waigiensis</i>			
670.	25261 <i>Pseudechis australis</i> (Mulga Snake)			
671.	<i>Pseudocaranx georgianus</i>			
672.	<i>Pseudodrymus florestalis</i>			Y
673.	<i>Pseudolabrus</i> sp.			
674.	<i>Pseudolampona woodman</i>			
675.	24234 <i>Pseudomys delicatulus</i> (Delicate Mouse)			
676.	24235 <i>Pseudomys desertor</i> (Desert Mouse)			
677.	25259 <i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)			
678.	13255 <i>Pterochaeta paniculata</i>			
679.	17267 <i>Pterostylis breviseptala</i>			
680.	1693 <i>Pterostylis recurva</i> (Jug Orchid)			
681.	12217 <i>Pterostylis sanguinea</i>			
682.	1698 <i>Pterostylis vittata</i> (Banded Greenhood)			
683.	2718 <i>Ptilotus drummondii</i> (Narrowleaf Mulla Mulla)			
684.	2742 <i>Ptilotus manglesii</i> (Pom Poms, Mulamula)			
685.	2751 <i>Ptilotus polystachyus</i> (Prince of Wales Feather)			
686.	4181 <i>Pultenaea reticulata</i>			
687.	<i>Purpureicephalus spurius</i>			
688.	16367 <i>Pyrorchis nigricans</i> (Red beaks, Elephants ears)			
689.	8195 <i>Quinetia urvillei</i>			
690.	24245 <i>Rattus rattus</i> (Black Rat)	Y		
691.	<i>Raveniella cirrata</i>			
692.	<i>Raveniella peckorum</i>			
693.	6012 <i>Regelia ciliata</i>			
694.	6014 <i>Regelia inops</i>			
695.	<i>Resupinatus</i> sp.			
696.	18547 <i>Rhadinothamnus anceps</i>			
697.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
698.	24454 <i>Rhipidura leucophrys</i> subsp. <i>leucophrys</i> (Willie Wagtail)			
699.	24982 <i>Rhynchoedura ornata</i> (Western Beaked Gecko)			
700.	4695 <i>Ricinocarpus glaucus</i>			
701.	19942 <i>Ricinocarpus undulatus</i>			
702.	1554 <i>Romulea flava</i>	Y		
703.	14485 <i>Romulea flava</i> var. <i>minor</i>	Y		
704.	1556 <i>Romulea rosea</i> (Guildford Grass)	Y		
705.	11544 <i>Romulea rosea</i> var. <i>australis</i> (Guildford Grass)	Y		
706.	38836 <i>Russula erumpens</i>			
707.	40426 <i>Rytidosperma occidentale</i>			
708.	<i>Rytidosperma</i> sp.			
709.	6987 <i>Salpichroa origanifolia</i> (Pampas Lily of the Valley)	Y		
710.	79 <i>Salvinia molesta</i> (Salvinia)	Y		
711.	7368 <i>Scabiosa atropurpurea</i> (Purple Pincushion)	Y		
712.	7603 <i>Scaevola canescens</i> (Grey Scaevola)			
713.	7614 <i>Scaevola globulifera</i>			
714.	13181 <i>Scaevola repens</i> var. <i>angustifolia</i>			
715.	13182 <i>Scaevola repens</i> var. <i>repens</i>			
716.	<i>Scaraphites</i> sp.			
717.	969 <i>Schoenoplectus validus</i> (Lake Club-rush)			
718.	984 <i>Schoenus curvifolius</i>			
719.	992 <i>Schoenus grandiflorus</i> (Large Flowered Bogrush)			
720.	1018 <i>Schoenus subfascicularis</i>			
721.	6033 <i>Scholtzia involucrata</i> (Spiked Scholtzia)			
722.	<i>Semanopteris lei</i>			
723.	20663 <i>Senecio multicaulis</i> subsp. <i>multicaulis</i>			
724.	25534 <i>Sericornis frontalis</i> (White-browed Scrubwren)			
725.	<i>Sigara (Tropocorixa) mullaka</i>			
726.	2909 <i>Silene gallica</i> (French Catchfly)	Y		
727.	15972 <i>Silene gallica</i> var. <i>gallica</i>	Y		

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
728.	25266	<i>Simoselaps bertholdi</i> (Jan's Banded Snake)			
729.		<i>Smeringopus natalensis</i>			
730.	30948	<i>Smicronis brevirostris</i> (Weebill)			
731.	24116	<i>Sminthopsis macroura</i> (Stripe-faced Dunnart)			
732.	7022	<i>Solanum nigrum</i> (Black Berry Nightshade)	Y		
733.	8231	<i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
734.	1312	<i>Sowerbaea laxiflora</i> (Purple Tassels)			
735.	1560	<i>Sparaxis pillansii</i> (Harlequin Flower)	Y		
736.		<i>Sphallomorpha hydroporoides</i>			
737.		<i>Sphyraena novaehollandiae</i>			
738.		<i>Stackhousia</i> sp.			
739.	2918	<i>Stellaria media</i> (Chickweed)	Y		
740.	40882	<i>Stemonitopsis hyperopta</i>			
741.		<i>Stemonitopsis</i> sp.			
742.	24329	<i>Stictonetta naevosa</i> (Freckled Duck)			
743.		<i>Stigmatopora argus</i>			
744.		<i>Stilbopteryx</i> sp.			
745.	2316	<i>Stirlingia latifolia</i> (Blueboy)			
746.	25597	<i>Strepera versicolor</i> (Grey Currawong)			
747.	24426	<i>Strepera versicolor</i> subsp. <i>plumbea</i> (Grey Currawong)			
748.	25589	<i>Streptopelia chinensis</i> (Spotted Turtle-Dove)	Y		
749.	25590	<i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
750.	24942	<i>Strophurus spinigerus</i> subsp. <i>spinigerus</i>			
751.	7679	<i>Stylidium adpressum</i> (Trigger-on-stilts)			
752.	30278	<i>Stylidium androsaceum</i>			
753.	7693	<i>Stylidium brunonianum</i> (Pink Fountain Triggerplant)			
754.	7694	<i>Stylidium bulbiferum</i> (Circus Triggerplant)			
755.	7696	<i>Stylidium calcaratum</i> (Book Triggerplant)			
756.	7699	<i>Stylidium carnosum</i> (Fleshy-leaved Triggerplant)			
757.	7709	<i>Stylidium crossoccephalum</i> (Posy Triggerplant)			
758.	25829	<i>Stylidium neurophyllum</i> (Coastal Plain Triggerplant)			
759.	7774	<i>Stylidium piliferum</i> (Common Butterfly Triggerplant)			
760.	7785	<i>Stylidium repens</i> (Matted Triggerplant)			
761.	7798	<i>Stylidium schoenoides</i> (Cow Kicks)			
762.		<i>Supunna funerea</i>			
763.		<i>Supunna picta</i>			
764.	2326	<i>Synaphea polymorpha</i> (Albany Synaphea, Pinda)			
765.	2329	<i>Synaphea spinulosa</i>			
766.	15532	<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>			
767.		<i>Synemon</i> sp.			
768.		<i>Synothele michaelsoni</i>			
769.		<i>Synothele mullaloo</i>			
770.	25705	<i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
771.	24682	<i>Tachybaptus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
772.	24331	<i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)			
773.		<i>Tasmanicosa</i> sp.			
774.	1036	<i>Tetraria octandra</i>			
775.	4535	<i>Tetratheca hirsuta</i> (Black Eyed Susan)			
776.	1702	<i>Thelymitra campanulata</i> (Shirt Orchid)			
777.	24844	<i>Threskiornis molucca</i> (Australian White Ibis)			
778.	24845	<i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
779.	1318	<i>Thysanotus arbuscula</i>			
780.	1319	<i>Thysanotus arenarius</i>			
781.	1339	<i>Thysanotus multiflorus</i> (Many-flowered Fringe Lily)			
782.	1343	<i>Thysanotus patersonii</i>			
783.	1348	<i>Thysanotus rectantherus</i>			
784.	1351	<i>Thysanotus sparteus</i>			
785.	1357	<i>Thysanotus thyrsoides</i>			
786.	1358	<i>Thysanotus triandrus</i>			
787.	25519	<i>Tiliqua rugosa</i>			
788.	25204	<i>Tiliqua rugosa</i> subsp. <i>aspera</i>			
789.		<i>Tilodon sexfasciatus</i>			
790.	25549	<i>Todiramphus sanctus</i> (Sacred Kingfisher)			
791.	24309	<i>Todiramphus sanctus</i> subsp. <i>sanctus</i> (Sacred Kingfisher)			
792.		<i>Torquigener vicinus</i>			
793.		<i>Torrendia</i> sp.			
794.	6280	<i>Trachymene pilosa</i> (Native Parsnip)			
795.		<i>Tramea</i> sp.			
796.		<i>Tramea stenoloba</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
797.	4383 <i>Tribulus terrestris</i> (Caltrop)	Y		
798.	39094 <i>Trichia affinis</i>			
799.	25723 <i>Trichoglossus haematodus</i> (Rainbow Lorikeet)			
800.	<i>Tricholoma</i> sp.			
801.	1361 <i>Tricoryne elatior</i> (Yellow Autumn Lily)			
802.	1363 <i>Tricoryne tenella</i>			
803.	4291 <i>Trifolium arvense</i> (Hare's Foot Clover)	Y		
804.	17542 <i>Trifolium arvense</i> var. <i>arvense</i>	Y		
805.	4292 <i>Trifolium campestre</i> (Hop Clover)	Y		
806.	4298 <i>Trifolium hirtum</i> (Rose Clover)	Y		
807.	4360 <i>Tropaeolum majus</i> (Garden Nasturtium)	Y		
808.	38846 <i>Tubaria serrulata</i>			
809.	29112 <i>Urochloa panicoides</i> var. <i>panicoides</i>	Y		
810.	<i>Urodacus armatus</i>			
811.	<i>Urodacus hartmeyerii</i>			
812.	<i>Urodacus novaehollandiae</i>			
813.	<i>Urodacus planimanus</i>			
814.	<i>Urodacus woodwardii</i>			
815.	<i>Uromycladium</i> sp.			
816.	8255 <i>Ursinia anthemoides</i> (Ursinia)	Y		
817.	38388 <i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>	Y		
818.	7158 <i>Utricularia volubilis</i> (Twining Bladderwort)			
819.	24386 <i>Vanellus tricolor</i> (Banded Lapwing)			
820.	25218 <i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
821.	25526 <i>Varanus tristis</i> (Racehorse Monitor)			
822.	8257 <i>Vellereophyton dealbatum</i> (White Cudweed)	Y		
823.	<i>Venator immansueta</i>			
824.	15432 <i>Verticordia densiflora</i> var. <i>densiflora</i>			
825.	6077 <i>Verticordia drummondii</i> (Drummond's Featherflower)			
826.	12422 <i>Verticordia eriocephala</i> (Common Cauliflower)			
827.	6088 <i>Verticordia huegelii</i> (Variegated Featherflower)			
828.	6101 <i>Verticordia nitens</i> (Morrison Featherflower, Kodjeningara)			
829.	11474 <i>Vicia sativa</i> subsp. <i>nigra</i>	Y		
830.	4325 <i>Viminaria juncea</i> (Swishbush, Koweda)			
831.	<i>Vincentia punctata</i>			
832.	24040 <i>Vulpes vulpes</i> (Red Fox)	Y		
833.	722 <i>Vulpia bromoides</i> (Squirrel Tail Fescue)	Y		
834.	724 <i>Vulpia myuros</i> (Rat's Tail Fescue)	Y		
835.	7384 <i>Wahlenbergia capensis</i> (Cape Bluebell)	Y		
836.	7389 <i>Wahlenbergia preissii</i>			
837.	8282 <i>Waitzia suaveolens</i> (Fragrant Waitzia)			
838.	13333 <i>Waitzia suaveolens</i> var. <i>suaveolens</i>			
839.	<i>Westrarchaea pusilla</i>			
840.	<i>Xanthoria</i> sp.			
841.	14544 <i>Xanthorrhoea brunonis</i> subsp. <i>brunonis</i>			
842.	1256 <i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
843.	6289 <i>Xanthosia huegelii</i>			
844.	<i>Zachria flavicoma</i>			
845.	1049 <i>Zantedeschia aethiopica</i> (Arum Lily)	Y		
846.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			

Conservation Codes

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

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

Attachment 3
Caladenia huegelii Reference Site
File Note

Caladenia huegelii – Reference Location – Banjup

To verify the timing for targeted surveys for *Caladenia huegelii* a reference site in Banjup in the City of Armadale was inspected in regular intervals during Spring 2016 by PGV Environmental to ensure the timing of the surveys were appropriate for the identification of this species.

17 July 2016

Leaves on 90% of the known plants in the area were present

**18 August 2016**

Two leaves had been damaged by grazing, presumably rabbits. The remainder of the plants that were recorded on the site as emerging with leaves were in bud with most in the early stages with buds emerging at the base and two in full bud.



6 September 2016

Most individuals were still in bud with approximately 20% in flower



12 September 2016

All individuals that produced a flower spike are in full flower except one which has a prominent bud.



22 September 2016

All orchids that produced spikes are in full flower and additional individuals were recorded in an area just to the west.



10 October 2016

Most flowers present but some starting to curl – considered to be the end of the peak period.