

## APPENDIX A1: STATE DEFINITION OF THREATENED AND PRIORITY FLORA SPECIES

**Note:** Adapted from DPaW (2017c).

Category	Definition
<b>T – Threatened</b>	<p>Taxa that have been adequately searched for and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such (Schedules 1 to 4 of the <i>Wildlife Conservation (Rare Flora) Notice</i> under the WC Act).</p> <p>Threatened flora are further ranked by the DPaW to align with IUCN Red List categories and criteria:</p> <ul style="list-style-type: none"> <li>• <b>CR:</b> Critically Endangered – considered to be facing an extremely high risk of extinction in the wild (Schedule 1);</li> <li>• <b>EN:</b> Endangered – considered to be facing a very high risk of extinction in the wild (Schedule 2); or</li> <li>• <b>VU:</b> Vulnerable – considered to be facing a high risk of extinction in the wild (Schedule 3).</li> <li>• <b>EX:</b> Presumed Extinct – taxa that have been adequately searched for and there is no reasonable doubt that the last individual has died (Schedule 4)</li> </ul>
<b>P1 – Priority 1</b> (Poorly known taxa)	<p>Taxa that are known from one or a few collections or sight records (generally less than five), all on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, Shire, Westrail and Main Roads WA road, gravel and soil reserves, and active mineral leases and under threat of habitat destruction or degradation.</p> <p>Taxa may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes.</p>
<b>P2 – Priority 2</b> (Poorly known taxa)	<p>Taxa that are known from one or a few collections or sight records, some of which are on lands not under imminent threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, vacant Crown land, water reserves, etc.</p> <p>Taxa may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes.</p>
<b>P3 – Priority 3</b> (Poorly known taxa)	<p>Taxa that are known from collections or sight records from several localities not under imminent threat, or from few but widespread localities with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat.</p> <p>Taxa may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and known threatening processes exist that could affect them.</p>
<b>P4 – Priority 4</b> (Rare, Near Threatened and other taxa in need of monitoring)	<p><b>1. Rare</b> - Taxa 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.</p> <p><b>2. Near Threatened</b> - Taxa that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.</p> <p><b>3.</b> Taxa that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.</p>

**APPENDIX A2: DEFINITION OF THREATENED FLORA SPECIES (*Environment Protection and Biodiversity Conservation Act 1999*)**

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

**APPENDIX A3: DEFINITION OF THREATENED ECOLOGICAL COMMUNITIES (DPaW 2017d)**

Category Code	Category
<b>PTD</b>	<p><b>Presumed Totally Destroyed</b></p> <p>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:</p> <ul style="list-style-type: none"> <li>(i) records within the last 50 years have not been confirmed despite thorough searches or known likely habitats or;</li> <li>(ii) all occurrences recorded within the last 50 years have since been destroyed.</li> </ul>
<b>CE</b>	<p><b>Critically Endangered</b></p> <p>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, meeting any one of the following criteria:</p> <ul style="list-style-type: none"> <li>(i) The estimated geographic range and distribution has been reduced by at least 90% and is either continuing to decline with total destruction imminent, or is unlikely to be substantially rehabilitated in the immediate future due to modification;</li> <li>(ii) The current distribution is limited ie. highly restricted, having very few small or isolated occurrences, or covering a small area;</li> <li>(iii) The ecological community is highly modified with potential of being rehabilitated in the immediate future.</li> </ul>
<b>E</b>	<p><b>Endangered</b></p> <p>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. The ecological community must meet any one of the following criteria:</p> <ul style="list-style-type: none"> <li>(i) The estimated geographic range and distribution has been reduced by at least 70% and is either continuing to decline with total destruction imminent in the short term future, or is unlikely to be substantially rehabilitated in the short term future due to modification;</li> <li>(ii) The current distribution is limited ie. highly restricted, having very few small or isolated occurrences, or covering a small area;</li> <li>(iii) The ecological community is highly modified with potential of being rehabilitated in the short term future.</li> </ul>
<b>V</b>	<p><b>Vulnerable</b></p> <p>An ecological community will be listed as Vulnerable when it has been adequately surveyed and is not Critically Endangered or Endangered but is facing high risk of total destruction in the medium to long term future. The ecological community must meet any one of the following criteria:</p> <ul style="list-style-type: none"> <li>(i) The ecological community exists largely as modified occurrences that are likely to be able to be substantially restored or rehabilitated;</li> <li>(ii) The ecological community may already be modified and would be vulnerable to threatening process, and restricted in range or distribution;</li> <li>(iii) The ecological community may be widespread but has potential to move to a higher threat category due to existing or impending threatening processes.</li> </ul>

**APPENDIX A4: DEFINITION OF THREATENED ECOLOGICAL COMMUNITIES (Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*)**

Three categories exist for listing threatened ecological communities under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*.

Listing Category	Explanation of Category
<b>Critically endangered</b>	If, at that time, it is facing an extremely high risk of extinction in the wild in the immediate future.
<b>Endangered</b>	If, at that time, it is not critically endangered and is facing a very high risk of extinction in the wild in the near future.
<b>Vulnerable</b>	If, at that time, it is not critically endangered or endangered, and is facing a high risk of extinction in the wild in the medium-term future.

**APPENDIX A5: DEFINITION OF PRIORITY ECOLOGICAL COMMUNITIES (DPaW 2017d)**

Category Code	Category
<b>P1</b>	<p><b>Poorly-known ecological communities</b></p> <p>Ecological communities with apparently few, small occurrences, all or most not actively managed for conservation (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) and for which current threats exist.</p>
<b>P2</b>	<p><b>Poorly-known ecological communities</b></p> <p>Communities that are known from few small occurrences, all or most of which are actively managed for conservation (e.g. within national parks, conservation parks, nature reserves, State forest, un-allocated Crown land, water reserves, etc.) and not under imminent threat of destruction or degradation.</p>
<b>P3</b>	<p><b>Poorly known ecological communities</b></p> <ul style="list-style-type: none"> <li>(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:</li> <li>(ii) Communities known from a few widespread occurrences, which are either large or within significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat, or;</li> <li>(iii) Communities made up of large, and/or widespread occurrences, that may or not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing and inappropriate fire regimes.</li> </ul>
<b>P4</b>	<p>Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring.</p>
<b>P5</b>	<p><b>Conservation Dependent ecological communities</b></p> <p>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.</p>

**APPENDIX A6: CATEGORIES AND CONTROL OF DECLARED (PLANT) PESTS IN WESTERN AUSTRALIA  
(DAFWA 2017, *Biosecurity and Agriculture Management Regulations 2013*)**

Control Category	Control Measures
<p><b>C1 (Exclusion)</b></p> <p>'(a) Category 1 (C1) — Exclusion: if in the opinion of the Minister introduction of the declared pest into an area or part of an area for which it is declared should be prevented'</p> <p>Pests will be assigned to this category if they are not established in Western Australia and control measures are to be taken, including border checks, in order to prevent them entering and establishing in the State.</p>	<p>In relation to a category 1 declared pest, the owner or occupier of land in an area for which an organism is a declared pest or a person who is conducting an activity on the land must take such of the control measures specified in subregulation (1) as are reasonable and necessary to destroy, prevent or eradicate the declared pest.</p>
<p><b>C2 (Eradication)</b></p> <p>'(b) Category 2 (C2) — Eradication: if in the opinion of the Minister eradication of the declared pest from an area or part of an area for which it is declared is feasible'</p> <p>Pests will be assigned to this category if they are present in Western Australia in low enough numbers or in sufficiently limited areas that their eradication is still a possibility.</p>	<p>In relation to a category 2 declared pest, the owner or occupier of land in an area for which an organism is a declared pest or a person who is conducting an activity on the land must take such of the control measures specified in subregulation (1) as are reasonable and necessary to destroy, prevent or eradicate the declared pest.</p>
<p><b>C3 (Management)</b></p> <p>'(c) Category 3 (C3) — Management: if in the opinion of the Minister eradication of the declared pest from an area or part of an area for which it is declared is not feasible but that it is necessary to —</p> <p>(i) alleviate the harmful impact of the declared pest in the area; or (ii) reduce the number or distribution of the declared pest in the area; or (iii) prevent or contain the spread of the declared pest in the area.'</p> <p>Pests will be assigned to this category if they are established in Western Australia but it is feasible, or desirable, to manage them in order to limit their damage. Control measures can prevent a C3 pest from increasing in population size or density or moving from an area in which it is established into an area which currently is free of that pest.</p>	<p>In relation to a category 3 declared pest, the owner or occupier of land in an area for which an organism is a declared pest or a person who is conducting an activity on the land must take such of the control measures specified in subregulation (1) as are reasonable and necessary to —</p> <p>(a) alleviate the harmful impact of the declared pest in the area for which it is declared; or (b) reduce the number or distribution of the declared pest in the area for which it is declared; or (c) prevent or contain the spread of the declared pest in the area for which it is declared.</p>

**APPENDIX A7: DEFINITION OF VEGETATION CONDITION SCALE (Keighery 1994)**

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

**APPENDIX A8: DEFINITION OF STRUCTURAL FORMS OF AUSTRALIAN VEGETATION (Beard 1990)**

<b>Structural Forms of Australian Vegetation</b>			
<b>Growth Form of Tallest Stratum</b>	<b>Foliage Cover of Tallest Stratum</b>		
	<b>30 – 70%</b>	<b>10 – 30%</b>	<b>less than 10%</b>
Tall Trees [greater than 30 m]	Tall Forest	Tall Woodland	Open Tall Forest
Medium Trees [10 – 30 m]	Forest	Woodland	Open Woodland
Low Trees [less than 10 m]	Low Forest	Low Woodland	Open Low Woodland
Tall Shrubs [greater than 2 m]	Thicket	Scrub	Open Scrub
Low Shrubs [less than 2 m]	Heath	Low Shrubland	Open Low Shrubland
Grassland [less than 1 m]	Closed Bunch Grassland	Open Bunch Grassland	Hummock Grassland



**APPENDIX B: SUMMARY OF VASCULAR PLANT SPECIES RECORDED IN THE BAUXITE MINE EXPANSION AREAS**

Note: \* denotes introduced species; T denotes threatened flora species (Department of Parks and Wildlife 2017c)

Family	Species	2014	2016
PTERIDACEAE	<i>Cheilanthes austrotenuifolia</i>	X	
	<i>Cheilanthes</i> sp.	X	
DENNSTAEDTIACEAE	<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	X	X
ZAMIACEAE	<i>Macrozamia riedlei</i>	X	X
JUNCAGINACEAE	<i>Cychnogeton lineare</i>	X	
POACEAE	* <i>Aira caryophyllea</i>	X	
	* <i>Aira cupaniana</i>	X	
	<i>Austrostipa hemipogon</i>	X	
	<i>Austrostipa trichophylla</i>	X	X
	<i>Austrostipa elegantissima</i>		X
	<i>Austrostipa</i> sp.		X
	* <i>Avena barbata</i>	X	X
	* <i>Avena fatua</i>		X
	* <i>Avena</i> sp.	X	
	* <i>Brachypodium distachyon</i>	X	
	* <i>Briza maxima</i>	X	X
	* <i>Briza minor</i>	X	X
	* <i>Bromus diandrus</i>	X	X
	* <i>Bromus</i> sp.		X
	* <i>Cynodon dactylon</i>	X	X
	* <i>Ehrharta calycina</i>		X
	* <i>Ehrharta longiflora</i>	X	X
	* <i>Eragrostis curvula</i>		X
	* <i>Holcus setiger</i>	X	
	* <i>Hordeum leporinum</i>	X	X
	* <i>Lolium perenne</i>	X	X
	* <i>Lolium</i> sp.	X	X
	<i>Neurachne alopecuroidea</i>	X	X
	* <i>Pentameris airoides</i>		X
	<i>Rytidosperma caespitosum</i>	X	
	<i>Sporobolus virginicus</i>	X	
	<i>Tetraria capillaris</i>		X
	<i>Tetraria octandra</i>		X
	<i>Tetrarrhena laevis</i>	X	
	* <i>Triticum aestivum</i>		X
	* <i>Vulpia bromoides</i>	X	
	* <i>Vulpia myuros</i>	X	
	* <i>Vulpia myuros forma megalura</i>	X	
	* <i>Vulpia myuros forma myuros</i>	X	
	* <i>Vulpia</i> sp.		X
	Poaceae sp.	X	X
CYPERACEAE	<i>Bolboschoenus caldwellii</i>		X
	<i>Carex fascicularis</i>		X
	<i>Gahnia decomposita</i>		X
	<i>Isolepis cernua</i> var. <i>setiformis</i>	X	X
	* <i>Isolepis marginata</i>	X	
	<i>Lepidosperma leptostachyum</i>	X	
	<i>Lepidosperma</i> sp.	X	X
	<i>Tetraria octandra</i>	X	
	<i>Tetraria</i> sp. Jarrah Forest (R. Davis 7391)	X	
	Cyperaceae sp.		X

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Family	Species	2014	2016
RESTIONACEAE	<i>Desmocladus asper</i>	X	
	<i>Desmocladus fasciculatus</i>	X	
	<i>Desmocladus flexuosus</i>	X	
	<i>Loxocarya cinerea</i>	X	
CENTROLEPIDACEAE	<i>Centrolepis inconspicua</i>	X	
JUNCACEAE	* <i>Juncus acutus</i> subsp. <i>acutus</i>	X	X
	* <i>Juncus bufonius</i>	X	
	<i>Juncus pallidus</i>	X	
	* <i>Juncus usitatus</i>	X	
ASPARAGACEAE	* <i>Asparagus asparagoides</i>		X
	<i>Chamaescilla corymbosa</i>	X	
	<i>Laxmannia sessiliflora</i>	X	
	<i>Lomandra ?brittanii</i>	X	
	<i>Lomandra caespitosa</i>	X	X
	<i>Lomandra drummondii</i>	X	
	<i>Lomandra hermaphrodita</i>	X	X
	<i>Lomandra sparteae</i>		X
	<i>Lomandra</i> sp.	X	
	<i>Sowerbaea laxiflora</i>	X	
	<i>Thysanotus dichotomus</i>	X	
	<i>Thysanotus manglesianus</i>	X	
	<i>Thysanotus thyrsoides</i>	X	
XANTHORRHOEACEAE	<i>Xanthorrhoea gracilis</i>	X	
	<i>Xanthorrhoea preissii</i>	X	X
HEMEROCALLIDACEAE	<i>Agrostocrinum scabrum</i>	X	
	<i>Caesia micrantha</i>	X	X
	<i>Dianella revoluta</i>	X	
	<i>Stypandra glauca</i>	X	X
HAEMODORACEAE	<i>Conostylis pusilla</i>	X	
	<i>Conostylis setigera</i> subsp. <i>setigera</i>	X	
	<i>Conostylis</i> sp.	X	
	<i>Haemodorum laxum</i>	X	
	<i>Haemodorum</i> sp.	X	X
AMARYLLIDACEAE	* <i>Leucojum aestivum</i>	X	
IRIDACEAE	<i>Gladiolus</i> sp.	X	
	* <i>Moraea ?lewisiae</i>	X	
	<i>Patersonia occidentalis</i>	X	
	<i>Patersonia pygmaea</i>	X	
	<i>Patersonia</i> sp.		X
	* <i>Romulea rosea</i>	X	X
ORCHIDACEAE	<i>Caladenia dorrienii</i> (T)	X	
	<i>Caladenia flava</i>	X	
	<i>Caladenia</i> sp.	X	
	* <i>Disa bracteata</i>	X	X
	<i>Diuris longifolia</i>	X	
	<i>Diuris</i> sp.	X	
	<i>Pyrorchis</i> sp.	X	

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Family	Species	2014	2016
ORCHIDACEAE (continued)	<i>Thelymitra crinita</i>	X	
	<i>Thelymitra</i> sp.	X	
	Orchidaceae sp.	X	
CASUARINACEAE	<i>Allocasuarina fraseriana</i>	X	
	<i>Allocasuarina huegeliana</i>	X	X
	<i>Allocasuarina humilis</i>	X	
	<i>Allocasuarina</i> sp.	X	
PROTEACEAE	<i>Banksia dallanneyi</i> var. <i>dallanneyi</i>	X	X
	<i>Banksia grandis</i>	X	X
	<i>Banksia sessilis</i>	X	X
	<i>Banksia squarrosa</i> subsp. <i>squarrosa</i>	X	
	<i>Grevillea bipinnatifida</i>	X	
	<i>Hakea lissocarpa</i>	X	X
	<i>Hakea prostrata</i>	X	X
	<i>Persoonia elliptica</i>	X	
	<i>Persoonia longifolia</i>	X	
SANTALACEAE	<i>Santalum acuminatum</i>	X	
AMARANTHACEAE	<i>Ptilotus drummondii</i>	X	
	<i>Ptilotus manglesii</i>	X	X
CARYOPHYLLACEAE	* <i>Cerastium glomeratum</i>	X	
	* <i>Petrorhagia dubia</i>	X	X
RANUNCULACEAE	<i>Clematis pubescens</i>	X	X
	* <i>Ranunculus muricatus</i>	X	
PAPAVERACEAE	* <i>Fumaria capreolata</i>	X	
DROSERACEAE	<i>Drosera ?barbigera</i>	X	
	<i>Drosera erythrorhiza</i>	X	
	<i>Drosera platystigma</i>	X	X
	<i>Drosera</i> sp.	X	
CRASSULACEAE	<i>Crassula colorata</i>	X	X
	<i>Crassula decumbens</i> var. <i>decumbens</i>	X	
PITTOSPORACEAE	<i>Billardiera heterophylla</i>	X	
	<i>Marianthus drummondianus</i>	X	
ROSACEAE	<i>Acaena echinata</i>	X	
FABACEAE	<i>Acacia alata</i>		X
	<i>Acacia celastrifolia</i>	X	X
	<i>Acacia drummondii</i> subsp. <i>drummondii</i>	X	
	* <i>Acacia iteaphylla</i>	X	
	<i>Acacia nervosa</i>	X	
	<i>Acacia lateriticola</i>		X
	<i>Acacia pulchella</i>	X	X
	<i>Acacia saligna</i>	X	X
	<i>Acacia willdenowiana</i>	X	
	<i>Acacia</i> sp.	X	
	<i>Bossiaea eriocarpa</i>	X	

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Family	Species	2014	2016
FABACEAE (continued)	<i>Bossiaea ornata</i>	X	X
	<i>Daviesia decurrens</i>	X	
	<i>Daviesia incrassata</i> subsp. <i>incrassata</i>	X	
	<i>Daviesia longifolia</i>	X	
	<i>Gastrolobium</i> sp. Prostrate Boddington (M Hislop 2130) P1		X
	<i>Gompholobium marginatum</i>	X	
	<i>Gompholobium preissii</i>	X	X
	<i>Gompholobium tomentosum</i>	X	
	<i>Hovea chorizemifolia</i>	X	X
	<i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>	X	
	<i>Kennedia coccinea</i>	X	X
	<i>Kennedia prostrata</i>	X	X
	<i>Labichea punctata</i>	X	
	* <i>Lotus angustissimus</i>	X	
	* <i>Lotus subbiflorus</i>	X	
	* <i>Lotus uliginosus</i>		X
	* <i>Lotus</i> sp.		X
	<i>Sphaerolobium medium</i>	X	X
	<i>Templetonia drummondii</i>	X	
	* <i>Trifolium arvense</i> var. <i>arvense</i>	X	X
	* <i>Trifolium campestre</i> var. <i>campestre</i>	X	X
	* <i>Trifolium hirtum</i>		X
	* <i>Trifolium ?incarnatum</i>	X	
	* <i>Trifolium subterraneum</i>	X	
	* <i>Trifolium</i> sp.	X	X
GERANIACEAE	* <i>Erodium botrys</i>	X	
	<i>Erodium cygnorum</i>	X	
	* <i>Erodium moschatum</i>	X	
	* <i>Geranium molle</i>	X	
	<i>Geranium retrorsum</i>	X	
	<i>Geranium solanderi</i>	X	
	<i>Pelargonium littorale</i>	X	
	? <i>Pelargonium</i> sp.	X	
OXALIDACEAE	* <i>Oxalis corniculata</i>	X	
	* <i>Oxalis pes-caprae</i>	X	
	<i>Oxalis</i> sp.	X	
LINACEAE	<i>Linum marginale</i>	X	
POLYGONACEAE	* <i>Rumex crispus</i>		X
EUPHORBIACEAE	<i>Monotaxis occidentalis</i>	X	
PHYLLANTHACEAE	<i>Phyllanthus calycinus</i>	X	X
	<i>Poranthera microphylla</i>	X	
CELASTRACEAE	<i>Stackhousia monogyna</i>	X	X
	<i>Tripterococcus brunonis</i>	X	
RHAMNACEAE	<i>Stenanthemum nanum</i>	X	
	<i>Trymalium ledifolium</i>	X	X
	<i>Trymalium odoratissimum</i> subsp. <i>odoratissimum</i>	X	X

**APPENDIX B: SUMMARY OF VASCULAR PLANT SPECIES RECORDED IN THE BAUXITE MINE EXPANSION AREAS**

Note: \* denotes introduced species; T denotes threatened flora species (Department of Parks and Wildlife 2017c)

Family	Species	2014	2016
ELAEocarpaceae	<i>Tetradlea hirsuta</i> <i>Tetradlea virgata</i>	X X	
DILLENIACEAE	<i>Hibbertia amplexicaulis</i> <i>Hibbertia commutata</i> <i>Hibbertia hypericoides</i> <i>Hibbertia ovata</i> <i>Hibbertia perfoliata</i> <i>Hibbertia pilosa</i> <i>Hibbertia serrata</i> <i>Hibbertia spicata</i> <i>Hibbertia</i> sp. (aff. <i>commutata</i> ) <i>Hibbertia</i> sp.	X X X X X X X X X X	X X X
THYMELAEACEAE	<i>Pimelea argentea</i>	X	
MYRTACEAE	<i>Corymbia calophylla</i> <i>Eucalyptus accedens</i> <i>Eucalyptus marginata</i> <i>Eucalyptus rudis</i> <i>Eucalyptus wandoo</i> <i>Leptospermum erubescens</i> <i>Leptospermum</i> sp. <i>Melaleuca incana</i> subsp. <i>incana</i> <i>Melaleuca radula</i> <i>Melaleuca raphiophylla</i> <i>Taxandria linearifolia</i>	X X X X X X X X X X X	X X X X X X X X X
HALORAGACEAE	<i>Glischrocaryon ? aureum</i> <i>Gonocarpus cordiger</i>	X X	
ARALIACEAE	<i>Trachymene pilosa</i>	X	X
APIACEAE	<i>Daucus glochidiatus</i> <i>Pentapeltis peltigera</i> <i>Xanthosia atkinsoniana</i> <i>Xanthosia candida</i> <i>Xanthosia huegelii</i>	X X X X X	X X
ERICACEAE	<i>Astroloma ciliatum</i> <i>Astroloma pallidum</i> <i>Leucopogon capitellatus</i> <i>Leucopogon nutans</i> <i>Leucopogon propinquus</i> <i>Styphelia tenuiflora</i>	X X X X X X	X X X X
PRIMULACEAE	* <i>Lysimachia arvensis</i>	X	X
LOGANIACEAE	<i>Phyllangium divergens</i> <i>Phyllangium paradoxum</i>	X X	
MENYANTHACEAE	Menyanthaceae sp.	X	
APOCYNACEAE	* <i>Gomphocarpus fruticosus</i>	X	X
LAMIACEAE	* <i>Mentha suaveolens</i> * <i>Stachys arvensis</i>	X X	X X

**APPENDIX B: SUMMARY OF VASCULAR PLANT SPECIES RECORDED IN THE BAUXITE MINE EXPANSION AREAS**

Note: \* denotes introduced species; T denotes threatened flora species (Department of Parks and Wildlife 2017c)

Family	Species	2014	2016
OROBANCHACEAE	* <i>Orobanche minor</i>	X	
	* <i>Parentucellia latifolia</i>	X	
RUBIACEAE	* <i>Galium murale</i>	X	X
	<i>Opercularia echinocephala</i>	X	
	<i>Opercularia vaginata</i>	X	
CAMPANULACEAE	<i>Isotoma hypocrateriformis</i>		X
GOODENIACEAE	<i>Dampiera alata</i>	X	
	<i>Dampiera linearis</i>	X	X
	<i>Goodenia convexa</i>	X	
	<i>Lechenaultia biloba</i>	X	
	<i>Scaevola calliptera</i>	X	
	<i>Velleia trinervis</i>	X	
STYLIDIACEAE	<i>Levenhookia pusilla</i>	X	
	<i>Levenhookia stipitata</i>	X	
	<i>Stylidium affine</i>	X	
	<i>Stylidium amoenum</i>	X	
	<i>Stylidium ciliatum</i>	X	
	<i>Stylidium lateriticola</i>	X	
	<i>Stylidium piliferum</i>	X	X
	<i>Stylidium schoenoides</i>	X	
ASTERACEAE	* <i>Arctotheca calendula</i>	X	X
	<i>Blennospora drummondii</i>	X	
	<i>Brachyscome iberidifolia</i>	X	
	* <i>Carduus pycnocephalus</i>	X	
	* <i>Cirsium vulgare</i>		X
	* <i>Cotula coronopifolia</i>	X	X
	<i>Craspedia variabilis</i>	X	
	<i>Hyalosperma cotula</i>	X	
	* <i>Hypochaeris glabra</i>	X	X
	<i>Lagenophora huegelii</i>	X	X
	<i>Millotia tenuifolia</i> var. <i>tenuifolia</i>	X	
	<i>Quinetia urvillei</i>	X	
	<i>Rhodanthe citrina</i>	X	
	<i>Rhodanthe corymbosa</i>	X	
	<i>Rhodanthe manglesii</i>	X	
	* <i>Sonchus asper</i>	X	
	* <i>Sonchus oleraceus</i>	X	X
	<i>Sonchus</i> sp.	X	
	<i>Trichocline spathulata</i>	X	X
	* <i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>	X	X
	Asteraceae sp.	X	X

**APPENDIX C: VASCULAR PLANT SPECIES RECORDED IN EACH DEFINED VEGETATION COMMUNITY  
IN THE BAUXITE MINE EXPANSION AREAS**

Note: \* denotes introduced species; P1 to P5 denote Priority Flora Species (DPAW 2017g)

Species	Vegetation Community							
	A	AX	AY	G2	H	M	S	Y
<i>Acacia alata</i>								X
<i>Acacia celastrifolia</i>					X	X		
<i>Acacia lateriticola</i>								X
<i>Acacia pulchella</i>		X		X	X	X	X	
<i>Acacia saligna</i>								X
<i>Allocastrum huegeliana</i>				X				
* <i>Arctotheca calendula</i>	X						X	
* <i>Asparagus asparagoides</i>								X
<i>Asteraceae</i> sp.		X						
<i>Astroloma pallidum</i>							X	
<i>Austrostipa elegantissima</i>								X
<i>Austrostipa trichophylla</i>								X
<i>Austrostipa</i> sp.		X		X	X	X		
* <i>Avena barbata</i>		X	X	X		X	X	X
* <i>Avena fatua</i>	X							
<i>Banksia dallanneyi</i> var. <i>dallanneyi</i>						X		
<i>Banksia grandis</i>						X	X	
<i>Banksia sessilis</i>				X		X		
<i>Bolboschoenus caldwelii</i>		X						
<i>Bossiaea ornata</i>				X		X	X	X
* <i>Briza maxima</i>			X					X
* <i>Briza minor</i>		X					X	X
* <i>Bromus diandrus</i>			X				X	X
* <i>Bromus</i> sp.								X
<i>Caesia micrantha</i>								X
<i>Carex fascicularis</i>			X					
* <i>Cirsium vulgare</i>			X				X	
<i>Clematis pubescens</i>							X	
<i>Corymbia calophylla</i>		X			X	X	X	X
* <i>Cotula coronopifolia</i>	X	X						
<i>Crassula colorata</i>					X			
* <i>Cynodon dactylon</i>		X						
<i>Cyperaceae</i> sp.	X							
<i>Dampiera linearis</i>								X
* <i>Disa bracteata</i>				X	X	X		X
<i>Drosera platystigma</i>				X				
* <i>Ehrharta calycina</i>								X
* <i>Ehrharta longiflora</i>			X					X
* <i>Eragrostis curvula</i>								X
<i>Eucalyptus marginata</i>				X	X	X	X	X
<i>Eucalyptus rudis</i>	X	X	X					X
<i>Eucalyptus wandoo</i>		X			X	X		
<i>Gahnia decomposita</i>			X					
* <i>Galium murale</i>							X	
* <i>Gomphocarpus fruticosus</i>		X						X
<i>Gompholobium preissii</i>				X				
<i>Haemodorum</i> sp.							X	X
<i>Hakea lissocarpa</i>						X		
<i>Hakea prostrata</i>								X
<i>Hibbertia amplexicaulis</i>				X			X	
<i>Hibbertia commutata</i>				X	X	X	X	X
<i>Hibbertia hypericoides</i>						X		
* <i>Hordeum leporinum</i>		X						
<i>Hovea chorizemifolia</i>							X	
* <i>Hypochaeris glabra</i>		X		X	X	X	X	X
<i>Isolepis cernua</i> var. <i>setiformis</i>	X	X	X					

**APPENDIX C: VASCULAR PLANT SPECIES RECORDED IN EACH DEFINED VEGETATION COMMUNITY  
IN THE BAUXITE MINE EXPANSION AREAS**

Note: \* denotes introduced species; P1 to P5 denote Priority Flora Species (DPAW 2017g)

Species	Vegetation Community							
	A	AX	AY	G2	H	M	S	Y
<i>Isotoma hypocrateriformis</i>				X				
* <i>Juncus acutus</i> subsp. <i>acutus</i>	X		X					
<i>Kennedia coccinea</i>					X		X	
<i>Kennedia prostrata</i>				X		X	X	
<i>Lagenophora huegelii</i>							X	
<i>Lepidosperma</i> sp.			X			X		
<i>Leptospermum</i> sp.								X
<i>Leucopogon capitellatus</i>						X	X	
<i>Leucopogon nutans</i>				X				
* <i>Lolium perenne</i>		X						
* <i>Lolium</i> sp.	X	X	X				X	X
<i>Lomandra caespitosa</i>							X	
<i>Lomandra hermaphrodita</i>						X		
<i>Lomandra spartea</i>				X			X	
* <i>Lotus uliginosus</i>	X							
* <i>Lotus</i> sp.		X						
* <i>Lysimachia arvensis</i>		X			X		X	X
<i>Macrozamia riedlei</i>				X		X	X	X
<i>Melaleuca incana</i> subsp. <i>incana</i>	X							
<i>Melaleuca raphiophylla</i>	X	X	X					
* <i>Mentha suaveolens</i>			X					
<i>Neurachne alopecuroidea</i>				X	X	X		
* <i>Orobanche minor</i>							X	
<i>Patersonia</i> sp.								X
* <i>Pentameris airoides</i>		X		X	X	X	X	
* <i>Petrorhagia dubia</i>					X	X		
<i>Phyllanthus calycinus</i>						X		X
Poaceae sp.		X						
<i>Pteridium esculentum</i> subsp. <i>esculentum</i>			X				X	
<i>Ptilotus manglesii</i>		X			X	X		
* <i>Romulea rosea</i>				X				X
* <i>Rumex crispus</i>		X	X					
* <i>Sonchus oleraceus</i>		X	X					
<i>Sphaerolobium medium</i>						X		
<i>Stackhousia monogyna</i>				X		X		
<i>Stylidium piliferum</i>							X	
<i>Stypandra glauca</i>								X
<i>Styphelia tenuiflora</i>							X	
<i>Taxandria linearifolia</i>			X					
<i>Tetraria capillaris</i>			X	X		X	X	X
<i>Tetraria octandra</i>								X
<i>Trachymene pilosa</i>				X				
<i>Trichocline spathulata</i>				X				
* <i>Trifolium arvense</i> var. <i>arvense</i>					X	X		
* <i>Trifolium campestre</i> var. <i>campestre</i>		X			X	X	X	
* <i>Trifolium hirtum</i>					X	X		
* <i>Trifolium</i> sp.							X	
* <i>Triticum aestivum</i>	X	X	X				X	
<i>Trymalium ledifolium</i>						X		
<i>Trymalium odoratissimum</i> subsp. <i>odoratissimum</i>							X	
* <i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>				X	X			
* <i>Vulpia</i> sp.		X						X
<i>Xanthorrhoea preissii</i>						X	X	X
<i>Xanthosia candida</i>						X		
<i>Xanthosia huegelii</i>						X		



**APPENDIX D: LOCATIONS OF VEGETATION SURVEY SITES WITHIN THE BAUXITE MINE  
EXPANSION AREAS**

Site	Location (GDA94_Zone 50)	
	Easting (mE)	Northing (mN)
Site01	443124	6363274
Site02	443920	6363366
Site03	443527	6363353
Site04	443773	6363331
Site05	443982	6363219
Site06	443969	6362757
Site07	443488	6357450
Site08	443564	6357378
Site09	443766	6356754
Site10	443349	6356760
Site11	453534	6351242
Site12	453651	6351322
Site13	443227	6366278
Site14	443774	6363757
Site15	443826	6363662
Site16	443792	6363381
Site17	443826	6363366
Site18	443904	6363395
Site19	444668	6363278
Site20	445752	6362890
Site21	445360	6362375
Site22	445093	6362222
Site23	445375	6357958
Site24	443240	6356446
Site25	452065	6354819