APPENDIX A DEFINITIONS OF DECLARED RARE AND PRIORITY FLORA AND THREATENED/ PRIORITY ECOLOGICAL COMMUNITIES



APPENDIX A

Appendix A1 - Definition of Rare and Priority Flora Species (Department of Environment and Conservation 2006)

Conservation Code	Category
R	Declared Rare Flora - Extant Taxa
	Taxa which have been adequately searched for and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such.
X	Declared Rare Flora - Presumed Extinct Taxa
	Taxa which have not been collected, or otherwise verified, over the past 50 years despite thorough searching, or of which all known wild populations have been destroyed more recently, and have been gazetted as such.
P1	Priority One - Poorly Known Taxa
	Taxa which are known from one or a few (generally <5) populations which are under threat, either due to small population size, or being on lands under immediate threat, e.g. road verges, urban areas, farmland, active mineral leases, etc., or the plants are under threat, e.g. from disease, grazing by feral animals, etc. May include taxa with threatened populations on protected lands. Such taxa are under consideration for declaration as 'rare flora', but are in urgent need of further survey.
P2	Priority Two - Poorly Known Taxa
	Taxa which are known from one or a few (generally <5) populations, at least some of which are not believed to be under immediate threat (i.e. not currently endangered). Such taxa are under consideration for declaration as 'rare flora', but urgently need further survey.
P3	Priority Three - Poorly Known Taxa
	Taxa which are known from several populations, and the taxa are not believed to be under immediate threat (i.e. not currently endangered), either due to the number of known populations (generally >5), or known populations being large, and either widespread or protected. Such taxa are under consideration for declaration as 'rare flora' but are in need of further survey.
P4	Priority Four - Rare Taxa
	Taxa which are considered to have been adequately surveyed and which, whilst being rare (in Australia), are not currently threatened by any identifiable factors. These taxa require monitoring every 5-10 years.



Appendix A2 - Categories of Threatened Flora Species (Environmental Protection and Biodiversity Conservation Act 1999)

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



Appendix A3 - Definition of Threatened Ecological Communities (Environmental Protection and Biodiversity Conservation Act 1999)

Presumed Totally Destroyed (PD)

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

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

Critically Endangered (CR)

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

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

Endangered (EN)

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

A) the estimated geographic range, and/or total area occupied, and/or number of discrete occurrences since European settlement have been reduced by at least 70% and either or both of the following apply (i or ii):



- i) geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is likely in the short term (within approximately 10 years);
- ii) modification throughout its range is continuing such that in the short term future (within approximately 10 years) the community is unlikely to be capable of being substantially restored or rehabilitated.
- B) current distribution is limited, and one or more of the following apply (i, ii or iii):
 - i) geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the short term future (within approximately 10 years);
 - ii) there are very few occurrences, each of which is small and/or isolated and extremely vulnerable to known threatening processes;
 - iii) there may be many occurrences but total area is very small and each occurrence is small and/or isolated and extremely vulnerable to known threatening processes.
- C) the ecological community exists only as highly modified occurrences which may be capable of being rehabilitated if such work begins in the short term future (within approximately 10 years).

Vulnerable (VU)

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

- A) the ecological community exists largely as modified occurrences which are likely to be capable of being substantially restored or rehabilitated;
- B) the ecological community can be modified or destroyed and would be vulnerable to threatening processes, is restricted in area and/or range and/or is only found at a few locations;
- C) the ecological community may still be widespread but is believed likely to move into a category of higher threat in the medium to long term future because of existing or impending threatening processes.



Appendix A4 - Definition of Priority Ecological Communities (Department of Environment and Conservation 2008)

Priority One (P1) Poorly known ecological communities:

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

Priority Two (P2) Poorly known ecological communities:

Communities that are known from few small occurrences, all or most of which are actively managed for conservation (e.g. within national parks, conservation parks, nature reserves, State forest, unallocated Crown land, water reserves, etc.) and not under imminent threat of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.

Priority Three (P3) Poorly known ecological communities:

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

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

Priority Four (P4) Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring:

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

Priority Five (P5) Conservation dependent ecological communities:

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



APPENDIX B DEFINITIONS OF INTRODUCED SPECIES CATEGORIES AND RATINGS



APPENDIX B

Appendix B1 - Definition of Introduced Flora Species

The DEC's Environmental Weed Strategy for Western Australia ranks weeds in terms of their environmental impact on biodiversity using the criteria: invasiveness, distribution, and environmental impacts:

- **Invasiveness** ability to invade bushland in good to excellent condition or ability to invade waterways.
- Distribution wide current or potential distribution including consideration of known history of wide spread distribution elsewhere in the world.
- Environmental Impacts ability to change the structure, composition and function of ecosystems. In particular an ability to form a monoculture in a vegetation community.

The rating of each weed is determined by the following scoring system:

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



Appendix B2 – Introduced Flora Species Potentially Occurring within the Project Area

Species	Rating	Description (WAM 2003)
*Aerva javanica	High	Kapok Bush
		Herb, 0.4–1.4m high. Often on sandy soils.
*Cenchrus ciliaris	High	Buffel Grass
		Tufted perennial, grass-like or herb, 0.2–1.5m high. White, red or brown sand, stony red loam, black cracking clay.
*Vachellia farnesiana	High	Mimosa Bush
		Description not available.
*Cynodon dactylon	Moderate	Couch
		Prostrate perennial, grass-like or herb, 0.05–0.3m high. Sand, loam, clay.
*Indigofera oblongifolia	Moderate	Erect, spreading shrub, to 1.3m high. Roadside drains.
*Malvastrum	Moderate	Spiked Malvastrum
americanum		Erect perennial, herb or shrub, 0.5–1.3m high. Variety of soils. Stony ridges and hillsides, floodplains, and along drainage lines.
*Parkinsonia aculeata	Moderate	Parkinsonia
		Spiny shrub or tree, to 8m high. Sandy or clayey soils. Often along watercourses.
*Chloris barbata	Low	Purpletop Chloris
		Annual or perennial, grass-like or herb, 0.4–0.9(–1.1)m high. White or red sand, loam, black clay. Sand dunes, river levees.
*Chloris gayana	Low	Rhodes Grass
		Grass-like or herb, 0.45–1.2m high. Sand or loam.
*Cucumis melo subsp.	ТВА	Ulcardo Melon
agrstis		Trailing annual, herb or climber.



Species	Rating	Description (WAM 2003)
*Nerium oleander	ТВА	Erect shrub to 5m high. Along edge of rivers and at base of limestone cliffs.
*Passiflora foetida var. hispida	-	Woody climber (vine with an unpleasant smell), to 9m high. Coastal areas, river & creek banks.



APPENDIX C FLORA SURVEY QUADRAT LOCATIONS



APPENDIX C

FLORA SURVEY QUADRAT LOCATIONS

Appendix C1 - Summer and Winter Season Survey

Site Number	#Easting	*Northing
QT001	663418	7755032
QT002	662575	7754784
QT003	662281	7754469
QT004	662134	7754698
QT005	661938	7754476
QT006	662034	7754289
QT007	661708	7754401
QT008	661356	7754203
QT009	661343	7754341
QT010	660982	7754227
QT011	662479	7754082
QT012	662574	7753254
QT013	662253	7752027
QT014	662095	7751379
QT015	661988	7750333
QT016	662029	7750390
QT017	662197	7750187
QT018	661799	7749075
QT019	661542	7749000
QT020	661735	7749747

Site Number	#Easting	[#] Northing
QT021	661647	7747757
QT022	661945	7747810
QT023	662180	7747426
QT024	661263	7747964
QT025	661241	7747637
QT026	661379	7747365
QT027	661165	7746813
QT028	661246	7745977
QT029	661529	7745939
QT030	661153	7745186
QT031	660985	7745201
QT032	661302	7745052
QT033	658167	7747044
QT034	658457	7746944
QT035	658485	7747484
QT036	659223	7747402
QT037	658734	7747877
QT038	659469	7747654
QT039	660114	7749275
QT040	660662	7749254
QT041	660208	7748258
QT042	657968	7748288
QT043	657792	7746657
QT044	657523	7746011
QT045	657812	7745895



Site Number	#Easting	* Northing
QT046	654926	7747594
QT047	655091	7747369
QT048	654505	7745849
QT049	654690	7746973
QT050	654497	7746751
QT051	654731	7746428
QT052	657789	7744872
QT053	658142	7744694
QT054	659462	7744955
QT055	654692	7745578
QT056	655024	7745385
QT057	655017	7745785
QT058	655004	7745064
QT059	655905	7745214
QT060	656343	7745378
QT061	656268	7744988
QT062	660124	7743775
QT063	660274	7744344
QT064	658122	7743956
QT065	658561	7743649
QT066	658705	7744229
QT067	659172	7743125
QT068	658854	7742866
QT069	659073	7742818
QT070	659869	7742962



Site Number	[#] Easting	# Northing
QT071	659766	7742474
QT072	662404	7744427
QT073	662599	7744230
QT074	661712	7744111
QT075	661353	7744278
QT076	660974	7744269
QT077	661964	7743361
QT078	661197	7742846
QT079	660703	7743000
QT080	660370	7742583
QT081	661875	7742594
QT082	662301	7742780
QT083	660042	7741752
QT084	659464	7741687
QT085	660297	7741225
QT086	662248	7741738
QT087	662031	7741025
QT088	661982	7740274
QT089	661491	7739828
QT090	660710	7739487
QT091	660194	7739743
QT092	663324	7740341
QT093	663206	7740021
QT094	662918	7740138



Site Number	#Easting	*Northing
QT095	662454	7738913
QT096	662848	7738854
QT097	663143	7738545
QT098	663849	7737791
QT099	663120	7737409
QT100	663984	7737006
QT101	663677	7736256
QT102	660628	7739058
QT103	661459	7738394
QT104	661356	7737536
QT105	665271	7734390
QT106	671399	7731469
QT107	671778	7730107
QT108	672217	7728075
QT109	672664	7726657
QT110	672850	7725731
QT111	672975	7724670
QT112	673066	7723588
QT113	673119	7722137
QT114	673212	7720764
QT115	673310	7720297
QT116	664859	7735438
QT117	664939	7734939
	664868	7734920



Site Number	[#] Easting	*Northing
QT118	666328	7732542
QT119	661544	7749000
QT120	666516	7733813
QT121	666409	7729109
QT122	666221	7729875
QT123	666538	7730338
QT124	666334	7731020
QT125	666520	7731429
QT126	666239	7731941

[#] Australian Geocentric 1994 (GDA94), Zone 50K.



Appendix C2 - Additional Winter Survey Areas

Site Number	#Easting	# Northing
QN001	668042	7726654
QN002	667577	7726629
QN003	667066	7726695
QN004	666685	7726781
QN005	666424	7727160
QN006	666136	7727503
QN007	666245	7727858
QN008	671103	7732367
QN009	670974	7733004
QN010	670908	7733945
QN011	670540	7734720
QN012	669840	7726286
QN013	670315	7726151
QN014	670754	7726092
QN015	669393	7725988
QN016	668915	7726269
QN017	668455	7726377
QN018	671152	7725636
QN019	672032	7725889
QN020	672292	7726225
QN021	672926	7725446
QN022	668726	7733934
QN023	669193	7733921

Site Number	#Easting	*Northing
QN024	668141	7733748
QN025	667723	7734020
QN026	667276	7733993
QN027	666918	7733797
QN028	666330	7728728
QN029	666179	7728242
QN030	666493	7734183
QN031	665991	7734232
QN032	665398	7733941
QN033	664934	7733794
QN034	664322	7733905
QN035	663764	7733782
QN036	663194	7733713
QN037	662801	7733770
QN038	662250	7733951
QN039	661789	7733861
QN040	661247	7733861
QN041	660779	7733661
QN042	660192	7733932
QN043	659691	7733923
QN044	659095	7734292
QN045	658565	7734682
QN046	658170	7735278
QN047	657513	7735588



Site Number	#Easting	*Northing
QN048	657432	7735981
QN049	656733	7736389
QN050	656630	7736994
QN051	656497	7737805
QN052	656332	7738288
QN053	656620	7738691
QN054	656538	7739181
QN055	656803	7739725
QN056	656707	7740226
QN057	656904	7740656
QN058	656723	7741288
QN059	657107	7737932
QN060	669778	7733809
QN061	656821	7741699
QN062	656776	7742171
QN063	656763	7742834
QN064	656100	7743639
QN065	657725	7743512
QN066	657246	7744050
QN067	656613	7744425
QN068	670199	7734095
QN069	670543	7733686
QN070	671332	7727799
QN071	670970	7727612



Site Number	#Easting	*Northing
QN072	669238	7727489
QN073	667095	7727671
QN074	670673	7730279
QN075	669089	7731798
QN076	668860	7731361
QN077	668910	7733088
QN078	669398	7732582
QN079	670012	7731345
QN080	671490	7729034
QN081	668612	7730751
QN082	668242	7730814
QN083	660294	7734543
QN084	661141	7734861
QN085	662239	7734800
QN086	663281	7734954
QN087	664057	7734589
QN088	663030	7735725
QN089	660940	7736142
QN090	662135	7735647
QN091	657548	7740652
QN092	658757	7736325
QN093	657859	7736445
QN094	659729	7735182
QN095	660231	7736443



Site Number	[#] Easting	*Northing
QN096	659482	7735681
QN097	657607	7742212
QN098	657476	7741579
QN099	657372	7741108
QN100	657565	7738777
QN101	657593	7739391
QN102	657434	7739983
QN103	657568	7740266
QN104	668675	7730041
QN105	669161	7730074
QN106	668388	7729882
QN107	668837	7729457
QN108	669211	7730900

[#] Australian Geocentric 1994 (GDA94), Zone 50K.



APPENDIX D FLORA QUADRAT PHOTOGRAPHS



APPENDIX D

FLORA QUADRAT PHOTOGRAPHS

Appendix D1 - Summer and Winter Season Survey

Site QT01

Summer





Winter

Site QT02 Summer Winter







Site QT03
Summer Winter





Site QT04
Summer Winter





Site QT05
Summer Winter





Site QT06
Summer Winter





Site QT07 Summer





Winter

Site QT08
Summer Winter





Site QT09
Summer Winter





Site QT10 Winter





Site QT11

Summer

Winter





Site QT12
Summer Winter





Site QT13









Site QT14 Summer

Winter







Site QT15

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Site QT16 Summer

Winter





Site QT17
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Site QT18
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Site QT19

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Site QT20
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Site QT21
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Site QT42 Summer Winter





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Site QT62 Summer Winter





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Site QT100
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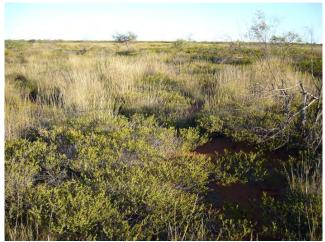
Site QT101
Summer Winter





Site QT102 Summer Winter





Site QT103





Site QT104
Summer Winter





Site QT105
Summer Winter





Site QT106
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Site QT107
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Site QT108
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Site QT109
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Site QT110
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Site QT111
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Site QT112
Summer Winter





Site QT113
Summer Winter



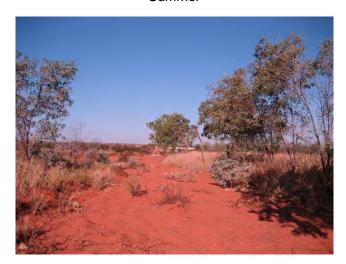


Site QT114
Summer Winter





Site QT115 Summer





Winter

Site QT116
Summer Winter





Site QT117
Summer Winter





Site QT118
Summer Winter





Site QT119





Winter

Site QT120
Summer Winter





Site QT121









Site QT122

Summer

Winter







Site QT123
Summer Winter





Site QT124
Summer Winter





Site QT125
Summer Winter





Site QT126
Summer Winter





Appendix D2 - Additional Winter Survey Areas



QN02



QN03







QN05



QN06







QN08



QN09







QN11



QN12







QN14



QN15





QN17



QN18







QN20



QN21







QN23



QN24







QN26



QN27







QN29



QN30





QN32



QN33







QN35



QN36







QN38



QN39







QN41



QN42





QN44



QN45





QN47



QN48





QN50



QN51







QN53



QN54







QN56



QN57





QN59



QN60







QN62



QN63







QN65



QN66





QN68



QN69







QN71



QN72







QN74



QN75







QN77



QN78







QN80



QN81







QN83



QN84







QN86



QN87







QN89



QN90





QN92



QN93







QN95



QN96







QN98



QN99







QN101



QN102







QN104



QN105





QN107



QN108





APPENDIX E VEGETATION CONDITION SCALES



OUTER HARBOUR DEVELOPMENT FLORA AND VEGETATION ASSESSMENT

APPENDIX E

Definition of Condition Scales (Trudgen 2002)

Condition Code	Definition
E	Excellent
	Pristine or nearly so, no obvious signs of damage caused by the activities of European man.
VG	Very Good
	Some relatively slight signs of damage caused by the activities of European man, e.g. some signs of damage to tree trunks caused by repeated fire and the presence of some relatively nonaggressive introduced species such as *Euphorbia hirta, *Ursinia anthemoides or Briza species, or occasional vehicle tracks.
G	Good
	More obvious signs of damage caused by the activities of European man, including some obvious impact on the vegetation structure such as caused by low levels of grazing or by selective logging. Introduced species as above, possibly plus some more aggressive ones.
Р	Poor
	Still retains basic vegetation structure or ability to regenerate to it after very obvious impacts of activities of European man such as grazing or partial clearing (chaining) or very frequent fires. Introduced species as above, probably plus some more aggressive ones such as <i>Ehrharta</i> and <i>Cenchrus</i> species.
VP	Very Poor
	Severely impacted by grazing, fire, clearing or a combination of these activities. Scope for some regeneration but, not to a state approaching good condition without intensive management. Usually with a number of introduced species including aggressive species.
D	Completely Degraded
	Areas that are completely or almost completely without native species in the structure of their vegetation, e.g. areas that are cleared or "parkland cleared" with their flora comprising weed or crop species with isolated native trees or shrubs.

