

5.4.2 Vegetation of State Significance

No State listed TECs or PECs, or vegetation units likely to be currently listed TECs or PECs were recorded at the study area.

5.4.3 Vegetation of Regional Significance

An assessment of the significance of the vegetation at the study area at a regional level is constrained by the lack of mapping across the region at a scale comparable to the mapping undertaken during the current survey. The only broad source of vegetation mapping available across the Great Sandy Desert is that conducted by Beard (1976) (and digitised by Shepherd *et al.* (2001)), at a scale of 1:1,000,000. As it is completed at such a large scale it does not accurately represent the mapped communities at the study area. Therefore, a meaningful regional assessment of vegetation significance cannot be made.

5.4.4 Vegetation of Local Significance

The local conservation significance of the vegetation types recorded at the study area is assessed in Table 5.9. In the absence of detailed vegetation mapping of the local or regional area, this assessment was made in relation to the local distribution of the mapped vegetation complex to which they belong, the observed distribution of the vegetation type made during the field assessment, and the presence of conservation significant species. Four vegetation types within the study area are considered to have moderate local significance, and the remaining have low local significance. Vegetation types with moderate significance are outlined below.

AdEgTb: *Allocasuarina decaisneana* and *Eucalyptus gamophylla* open woodland over *Acacia adsurgens* open shrubland over *Triodia basedowii* hummock grassland. Although belonging to the widespread Sandplains Complex, this vegetation type was observed only in the southern section of the study area. It also supports the regionally significant species *Thysanotus* sp. Desert East of Newman (R.P. Hart 964) (P2). It is likely that this vegetation type is more widespread locally, so its local significance is considered moderate based on available data.

AdAIALM: *Allocasuarina decaisneana* open woodland over *Acacia ligulata* and *Acacia* sp. Lake Mackay (P.K. Latz 12836) open shrubland over *Triodia schinzii* hummock grassland. Although belonging to the widespread Sandplains Complex, this vegetation type was observed only in the western section of the study area. It also supports the potentially new taxon of regional conservation significance *Newcastelia* aff. *bracteosa* [A. Craigie 1677.65.9]. It is likely that this vegetation type is more widespread locally, so its local significance is considered moderate based on available data.

AdTp: *Allocasuarina decaisneana* open woodland over *Triodia pungens* hummock grassland in island swales. This vegetation type was only observed in a small patch on the eastern-most island surveyed. It is likely to occur on additional islands, but based on its apparent restricted distribution is considered to be locally significant.

Island margins supporting *Tecticornia globulifera* (P1): Although floristically similar to vegetation present on lower lake margin on the outer edge of Lake Mackay, this vegetation is considered to be locally significant due to the presence of the regionally significant species *Tecticornia globulifera*.

Table 5-8 – Vegetation units recorded within the study area

Mapping Unit	Area within study area (ha)	NVIS IV (Sub-formation)	NVIS V (Association/Vegetation Type)	Code	Habitat	Representative Sites	Mapping Points
Sandplain Complex	65458.2 (16.3%)	<i>Eucalyptus</i> open woodland, over <i>Acacia</i> open shrubland, over <i>Triodia</i> hummock grassland on sandplains.	<i>Eucalyptus gamophylla</i> (\pm <i>Corymbia opaca</i>) open woodland over <i>Acacia</i> (<i>A. adsurgens</i> , <i>A. ancistrocarpa</i> , <i>A. elachantha</i> , or <i>A. ligulata</i>) open woodland over <i>Triodia</i> (<i>T. basedowii</i> , <i>T. salina</i> , or <i>T. schinzii</i>) hummock grassland.	EgCo	Sandplains	Q82, Q89, Q96	M61, M77, M88, M73, M79, M80, M81, M85, M86
			<i>Eucalyptus pachyphylla</i> open woodland over mixed <i>Acacia</i> (<i>A. adsurgens</i> , <i>A. elachantha</i> , <i>A. ancistrocarpa</i> , <i>A. cuthbertsonii</i> , <i>A. ligulata</i> , or <i>A. inaequilatera</i>) over <i>Triodia basedowii</i> hummock grassland.	Ep	Sandplains	Q3, Q78	M109
			<i>Eucalyptus victrix</i> open woodland over <i>Triodia</i> (<i>T. salina</i> or <i>T. basedowii</i>) hummock grassland.	Ev	Sandplains	Q60	
			<i>Allocasuarina decaisneana</i> and <i>Eucalyptus gamophylla</i> open woodland over <i>Acacia adsurgens</i> open shrubland over <i>Triodia basedowii</i> hummock grassland.	AdEgTb	Sandplains	Q18	
		<i>Acacia</i> open shrubland, over <i>Triodia</i> hummock grassland on sandplains.	<i>Acacia aptaneura</i> (\pm <i>Eucalyptus victrix</i>) open woodland over <i>Senna artemisioides</i> subsp. <i>oligophylla</i> low open shrubland over <i>Aristida</i> (<i>A. holathera</i> or <i>A. contorta</i>) sparse tussock grassland.	AaSa	Depressions, Claypans	Q84	M107
			<i>Acacia</i> (<i>A. adsurgens</i> , <i>A. ligulata</i> , <i>A. pruinocarpa</i> , or <i>A. ancistrocarpa</i>) open shrubland over <i>Triodia</i> (<i>T. basedowii</i> or <i>T. schinzii</i>) hummock grassland.	AT	Sandplains	Q97	M74, M68
Dune Complex	46500.52 (11.6%)	<i>Acacia</i> open shrubland over <i>Triodia</i> hummock grassland on dune swales and foredunes.	(\pm <i>E. gamophylla</i>) <i>Acacia ligulata</i> and <i>Acacia</i> sp. Lake Mackay (P.K. Latz 12836) open shrubland over <i>Triodia</i> (<i>Triodia salina</i> , <i>T. schinzii</i> , <i>T. basedowii</i> , or <i>T. pungens</i>) hummock grassland.	EgAlALM	Dune Swales	Q33, Q99	M41, M67, M100, M101
		<i>Melaleuca</i> open shrubland over <i>Triodia</i> hummock grassland on dune swales and foredunes.	<i>Melaleuca glomerata</i> and <i>Acacia</i> (<i>A. ligulata</i> , <i>A. melleodora</i> , or <i>A. sp.</i> Lake Mackay (P.K. Latz 12836)) open shrubland over <i>Triodia</i> (<i>T. basedowii</i> , <i>T. pungens</i> , or <i>T. schinzii</i>) hummock grassland.	MgAlALM	Dune Swales	Q63	M66, M64, M75
		<i>Allocasuarina</i> open woodland over <i>Triodia</i> hummock grassland on dune swales and foredunes.	<i>Allocasuarina decaisneana</i> open woodland over <i>Acacia ligulata</i> and <i>Acacia</i> sp. Lake Mackay (P.K. Latz 12836) open shrubland over <i>Triodia schinzii</i> hummock grassland.	AdAlALM	Dune Swales	Q65	
		<i>Corymbia</i> open woodland, over <i>Acacia</i> open woodland, over <i>Triodia</i> hummock grassland on dune crests.	<i>Corymbia chippendalei</i> open woodland over <i>Acacia</i> (<i>A. ligulata</i> , <i>A. sp.</i> Lake Mackay (P.K. Latz 12836), or <i>A. melleodora</i>) open shrubland over <i>Newcastelia spodiotricha</i> and <i>Dicrasyllis doranii</i> low open shrubland, over <i>Triodia</i> (<i>T. schinzii</i> or <i>T. pungens</i>) hummock grassland.	Cc	Dune Crests	Q32, Q76, Q98	M41, M83
Island Dunes*	393.26 (0.09%)	<i>Acacia</i> open woodland, over <i>Triodia</i> hummock grassland on dune crests.	<i>Acacia</i> sp. Lake Mackay (P.K. Latz 12836) open shrubland over <i>Newcastelia spodiotricha</i> low open shrubland over <i>Triodia pungens</i> hummock grassland.	ALM	Dune Crests	Q27	M94

Mapping Unit	Area within study area (ha)	NVIS IV (Sub-formation)	NVIS V (Association/Vegetation Type)	Code	Habitat	Representative Sites	Mapping Points
Saline Flats and Depressions	3848.58 (0.9%)	<i>Frankenia</i> and/or <i>Tecticornia</i> low open shrubland, over <i>Triodia</i> hummock grassland on saline flats and depressions.	<i>Frankenia cordata</i> and <i>Tecticornia indica</i> subsp. <i>leiostachya</i> low open shrubland over mixed low chenopods over <i>Eragrostis falcata</i> scattered tussock grasses.	FcTi	Saline Flats and Depressions	Q34, Q102, Q106	M69
			<i>Tecticornia</i> (<i>T. indica</i> subsp. <i>leiostachya</i> , <i>T. calyprata</i> , <i>T. verrucosa</i> , or <i>T. pergranulata</i> subsp. <i>elongata</i>) low open shrubland over <i>Eragrostis falcata</i> scattered tussock grasses.	Ti	Saline Flats and Depressions	Q10, Q90, Q110	M71
Claypan Plains	12747.4 (3.2%)	<i>Melaleuca</i> and/or <i>Senna</i> open shrubland over <i>Triodia</i> hummock grassland associated with claypans.	<i>Melaleuca glomerata</i> open shrubland over <i>Triodia</i> (<i>T. basedowii</i> , <i>T. salina</i> , or <i>T. schinzii</i>) hummock grassland.	Mg	Plains with small claypans	Q15	M72, M108
			(± <i>Acacia ligulata</i>) <i>Senna artemisioides</i> subsp. <i>oligophylla</i> and <i>Frankenia cordata</i> low open shrubland over mixed low chenopods over <i>Triodia</i> (<i>T. basedowii</i> or <i>T. salina</i>).	SaFc	Plains with small claypans	Q70, Q87, Q105, Q111	M103, M104, M112
Island Swales*	1737.28 (0.4%)	<i>Allocasuarina</i> open woodland over <i>Triodia</i> hummock grassland in island dune swales.	<i>Allocasuarina decaisneana</i> open woodland over <i>Triodia pungens</i> hummock grassland.	AdTp	Dune Swales (Island)	Q91	
			<i>Acacia ligulata</i> open shrubland over <i>Triodia pungens</i> hummock grassland.	AlTp	Calcrete Swales (Island)	Q26	
			<i>Melaleuca glomerata</i> open shrubland over <i>Frankenia cordata</i> low open shrubland over <i>Triodia pungens</i> hummock grassland.	MgFcTp	Calcrete Swales (Island)	Q29	M95
Lake Margin Complex	6761.69 (1.7%)	<i>Frankenia</i> and/or <i>Tecticornia</i> low open shrubland on lake margin.	Upper lake profile typically dominated by <i>Frankenia cordata</i> , <i>Scaevola collaris</i> , <i>Maireana luehmannii</i> , and <i>Triodia salina</i> (<i>T. pungens</i> on islands).	LakeUpper	Salt Lake Margin	4903, 4904, 4905, 4906, 5102, 5104, 5105, 5106, 5305, 5306, 5501, 5502, 5701, 5702, 6201, 6202	
			Interzone between upper and lower lake profiles typically dominated by <i>Maireana luehmannii</i> , <i>Lawrenca glomerata</i> , <i>Surreya diandra</i> , <i>Scaevola collaris</i> , and <i>Tecticornia calyprata</i> .	LakeMid	Salt Lake Margin	4902, 5503, 5504, 5703, 5704, 6203, 6204	
			Species poor and highly saline lower lake profile dominated by <i>Tecticornia calyprata</i> , <i>Tecticornia halocnemoides</i> subsp. <i>longispicata</i> , <i>Tecticornia globulifera</i> P1 (at island sites only), and <i>Eragrostis falcata</i> .	LakeLower	Salt Lake Margin	4901, 5101, 5103, 5301, 5302, 5303, 5304, 5505, 5506, 5705, 5706,	

Mapping Unit	Area within study area (ha)	NVIS IV (Sub-formation)	NVIS V (Association/Vegetation Type)	Code	Habitat	Representative Sites	Mapping Points
						6205, 6206	
Unmapped island	20620.5 (5.15%)	NA	NA	NA	NA	NA	NA
Saltpan (not vegetated)	241735 (60.4%)	NA	NA	NA	NA	NA	NA


*Vegetation complex mapped only on surveyed island.

Table 5-9 – Local conservation significance of vegetation types at the study area

Code	Vegetation Type	Local distribution of vegetation complex (ha)	Observed distribution of vegetation type within study area	Supported significant species	Local Significance Rating
EgCo	<i>Eucalyptus gamophylla</i> (± <i>Corymbia opaca</i>) open woodland over <i>Acacia</i> (<i>A. adsurgens</i> , <i>A. ancistrocarpa</i> , <i>A. elachantha</i> , or <i>A. ligulata</i>) open woodland over <i>Triodia</i> (<i>T. basedowii</i> , <i>T. salina</i> , or <i>T. schinzii</i>) hummock grassland.	65458.2 (16.3%)	Widespread		Low
Ep	<i>Eucalyptus pachyphylla</i> open woodland over mixed <i>Acacia</i> (<i>A. adsurgens</i> , <i>A. elachantha</i> , <i>A. ancistrocarpa</i> , <i>A. cuthbertsonii</i> , <i>A. ligulata</i> , or <i>A. inaequilatera</i>) over <i>Triodia basedowii</i> hummock grassland.	65458.2 (16.3%)	Widespread but patchy		Low
Ev	<i>Eucalyptus victrix</i> open woodland over <i>Triodia</i> (<i>T. salina</i> or <i>T. basedowii</i>) hummock grassland.	65458.2 (16.3%)	Widespread but patchy		Low
AdEgTb	<i>Allocasuarina decaisneana</i> and <i>Eucalyptus gamophylla</i> open woodland over <i>Acacia adsurgens</i> open shrubland over <i>Triodia basedowii</i> hummock grassland.	65458.2 (16.3%)	Potentially restricted - observed only at one location	<i>Thysanotus</i> sp. Desert East of Newman (R.P. Hart 964) (P2)	Moderate
AaSa	<i>Acacia aptaneura</i> (± <i>Eucalyptus victrix</i>) open woodland over <i>Senna artemisioides</i> subsp. <i>oligophylla</i> low open shrubland over <i>Aristida</i> (<i>A. holathera</i> or <i>A. contorta</i>) sparse tussock grassland.	65458.2 (16.3%)	Widespread but patchy		Low
AT	<i>Acacia</i> (<i>A. adsurgens</i> , <i>A. ligulata</i> , <i>A. pruinocarpa</i> , or <i>A. ancistrocarpa</i>) open shrubland over <i>Triodia</i> (<i>T. basedowii</i> or <i>T. schinzii</i>) hummock grassland.	65458.2 (16.3%)	Widespread		Low
EgAIALM	(± <i>E. gamophylla</i>) <i>Acacia ligulata</i> and <i>Acacia</i> sp. Lake Mackay (P.K. Latz 12836) open shrubland over <i>Triodia</i> (<i>Triodia salina</i> , <i>T. schinzii</i> , <i>T. basedowii</i> , or <i>T. pungens</i>) hummock grassland.	46500.52 (11.6%)	Widespread		Low
MgAIALM	<i>Melaleuca glomerata</i> and <i>Acacia</i> (<i>A. ligulata</i> , <i>A. melleodora</i> , or <i>A. sp.</i> Lake Mackay (P.K. Latz 12836)) open shrubland over <i>Triodia</i> (<i>T. basedowii</i> , <i>T. pungens</i> , or <i>T. schinzii</i>) hummock grassland.	46500.52 (11.6%)	Widespread	<i>Newcastelia</i> aff. <i>bracteosa</i> [A. Craigie 1677.65.9]	Low
AdAIALM	<i>Allocasuarina decaisneana</i> open woodland over <i>Acacia ligulata</i> and <i>Acacia</i> sp. Lake Mackay (P.K. Latz 12836) open shrubland over <i>Triodia schinzii</i> hummock grassland.	46500.52 (11.6%)	Potentially restricted - observed only at one location	<i>Newcastelia</i> aff. <i>bracteosa</i> [A. Craigie 1677.65.9]	Moderate
Cc	<i>Corymbia chippendalei</i> open woodland over <i>Acacia</i> (<i>A. ligulata</i> , <i>A. sp.</i> Lake Mackay (P.K. Latz 12836), or <i>A. melleodora</i>) open shrubland over <i>Newcastelia spodioptricha</i> and <i>Dicrasyllis dorianii</i> low open shrubland, over <i>Triodia</i> (<i>T. schinzii</i> or <i>T. pungens</i>) hummock grassland.	46500.52 (11.6%)	Widespread		Low
ALM	<i>Acacia</i> sp. Lake Mackay (P.K. Latz 12836) open shrubland over <i>Newcastelia spodioptricha</i> low open shrubland over <i>Triodia pungens</i> hummock grassland.	393.26 (0.09%)	Widespread		Low
FcTi	<i>Frankenia cordata</i> and <i>Tecticornia indica</i> subsp. <i>leiostachya</i> low open shrubland over mixed low chenopods over <i>Eragrostis falcata</i> scattered tussock grasses.	3848.58 (0.9%)	Widespread		Low
Ti	<i>Tecticornia</i> (<i>T. indica</i> subsp. <i>leiostachya</i> , <i>T. calyptrata</i> , <i>T. verrucosa</i> , or <i>T. pergranulata</i> subsp. <i>elongata</i>) low open shrubland over <i>Eragrostis falcata</i> scattered tussock grasses.	3848.58 (0.9%)	Widespread		Low

Code	Vegetation Type	Local distribution of vegetation complex (ha)	Observed distribution of vegetation type within study area	Supported significant species	Local Significance Rating
Mg	<i>Melaleuca glomerata</i> open shrubland over <i>Triodia</i> (<i>T. basedowii</i> , <i>T. salina</i> , or <i>T. schinzii</i>) hummock grassland.	12747.4 (3.2%)	Widespread		Low
SaFc	(± <i>Acacia ligulata</i>) <i>Senna artemisioides</i> subsp. <i>oligophylla</i> and <i>Frankenia cordata</i> low open shrubland over mixed low chenopods over <i>Triodia</i> (<i>T. basedowii</i> or <i>T. salina</i>).	12747.4 (3.2%)	Widespread	<i>Goodenia virgata</i> (P2)	Low
AdTp	<i>Allocasuarina decaisneana</i> open woodland over <i>Triodia pungens</i> hummock grassland.	1737.28 (0.4%)	Potentially restricted - observed on a single island		Moderate
AlTp	<i>Acacia ligulata</i> open shrubland over <i>Triodia pungens</i> hummock grassland.	1737.28 (0.4%)	Widespread		Low
MgFcTp	<i>Melaleuca glomerata</i> open shrubland over <i>Frankenia cordata</i> low open shrubland over <i>Triodia pungens</i> hummock grassland.	1737.28 (0.4%)	Widespread		Low
LakeUpper	Upper lake profile typically dominated by <i>Frankenia cordata</i> , <i>Scaevola collaris</i> , <i>Maireana luehmannii</i> , and <i>Triodia salina</i> (<i>T. pungens</i> on islands).	6761.69 (1.7%)	Widespread	<i>Stackhousia clementii</i> (P3)	Low
LakeMid	Interzone between upper and lower lake profiles typically dominated by <i>Maireana luehmannii</i> , <i>Lawrenzia glomerata</i> , <i>Surreya diandra</i> , <i>Scaevola collaris</i> , and <i>Tecticornia calyptata</i> .	6761.69 (1.7%)	Widespread	<i>Stackhousia clementii</i> (P3)	Low
LakeLower	Species poor and highly saline lower lake profile dominated by <i>Tecticornia calyptata</i> , <i>Tecticornia halocnemoides</i> subsp. <i>longispicata</i> , <i>Tecticornia globulifera</i> P1 (at island sites only), and <i>Eragrostis falcata</i> .	6761.69 (1.7%)	Widespread	<i>Tecticornia globulifera</i> (P1)	Moderate for island vegetation

Table 5-10 – Vegetation types at the study area

Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
EgCo (Sandplains Complex)	Q82, Q89, Q96 M61, M77, M88, M73, M79, M80, M81, M85, M86	<i>Eucalyptus</i> open woodland. <i>Eucalyptus gamophylla</i> (± <i>Corymbia opaca</i>) open woodland, over <i>Acacia</i> (<i>A. adsurgens</i> , <i>A. ancistrocarpa</i> , <i>A. elachantha</i> , or <i>A. ligulata</i>) open woodland, over <i>Triodia</i> (<i>T. basedowii</i> , <i>T. salina</i> , or <i>T. schinzii</i>) hummock grassland.	<i>Aristida holathera</i> <i>Bonamia erecta</i> <i>Eragrostis eriopoda</i> <i>Euphorbia tannensis</i> subsp. <i>eremophila</i> <i>Hakea divaricata</i> <i>Hibiscus leptocladus</i> <i>Indigofera georgei</i> <i>Senna artemisioides</i> subsp. <i>oligophylla</i>	Average species richness (mean ± SE): 24 ± 5 Landform: Sandplains
				

Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
Ep (Sandplains Complex)	Q3, Q78 M109	<i>Eucalyptus</i> open woodland. <i>Eucalyptus pachyphylla</i> open woodland, over mixed <i>Acacia</i> (<i>A. adsurgens</i> , <i>A. elachantha</i> , <i>A. ancistrocarpa</i> , <i>A. cuthbertsonii</i> , <i>A. ligulata</i> , or <i>A. inaequilatera</i>), over <i>Triodia basedowii</i> hummock grassland.	<i>Anthobolus leptomerioides</i> <i>Aristida holathera</i> <i>Hakea divaricata</i> <i>Paraneurachne muelleri</i> <i>Scaevola basedowii</i> <i>Seringia elliptica</i> <i>Sida arenicola</i> <i>Streptoglossa macrocephala</i>	Average species richness (mean ± SE): 21 ± 3 Landform: Sandplains (Stony rise present in far south-west corner of study area)



Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
Ev (Sandplains Complex)	Q60	<i>Eucalyptus</i> open woodland. <i>Eucalyptus victrix</i> open woodland over <i>Triodia</i> (<i>T. salina</i> or <i>T. basedowii</i>) hummock grassland.	<i>Acacia adsurgens</i> <i>Aristida holathera</i> <i>Carissa lanceolata</i> <i>Cyperus cunninghamii</i> <i>Melaleuca glomerata</i> <i>Pluchea dunlopilii</i> <i>Rhagodia eremaea</i> <i>Senna artemisioides</i> subsp. <i>oligophylla</i>	Species richness: 15 Landform: Sandplains




Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
AdEgTb (Sandplains Complex)	Q18	<p><i>Allocasuarina</i> open woodland.</p> <p><i>Allocasuarina decaisneana</i> and <i>Eucalyptus gamophylla</i> open woodland, over <i>Acacia adsurgens</i> open shrubland, over <i>Triodia basedowii</i> hummock grassland.</p>	<p><i>Bonamia erecta</i> <i>Dicrasyliis exsuccosa</i> <i>Ptilotus obovatus</i> <i>Thysanotus</i> sp. Desert East of Newman (R.P. Hart 964)</p>	<p>Species richness: 10 Landform: Sandplains</p>



Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
AaSa (Sandplains Complex)	Q84 M107	<p>Acacia open woodland.</p> <p>Acacia aptaneura (± Eucalyptus victrix) open woodland, over Senna artemisioides subsp. oligophylla low open shrubland, over Aristida (A. holathera and/or A. contorta) sparse tussock grassland.</p>	<p>Abutilon macrum</p> <p>Abutilon otocarpum</p> <p>Acacia adsurgens</p> <p>Enchylaena tomentosa</p> <p>Enneapogon robustissimus</p> <p>Eragrostis eriopoda</p> <p>Eremophea spinosa</p> <p>Hibiscus sturtii var. grandiflorus</p> <p>Pluchea dunlopii</p> <p>Rhagodia eremaea</p> <p>Sclerolaena crenata</p> <p>Sida fibulifera</p> <p>Triodia basedowii</p>	<p>Species richness: 26</p> <p>Landform: Sandplains, Clay Depressions</p>



Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
AT (Sandplains Complex)	Q97 M74, M68	<p>Acacia open woodland.</p> <p>Acacia (<i>A. adsurgens</i>, <i>A. ligulata</i>, <i>A. pruinocarpa</i>, or <i>A. ancistrocarpa</i>) open shrubland, over <i>Triodia</i> (<i>T. basedowii</i> or <i>T. schinzii</i>) hummock grassland.</p>	<p><i>Aristida contorta</i> <i>Carissa lanceolata</i> <i>Enchylaena tomentosa</i> <i>Enneapogon polyphyllus</i> <i>Eragrostis eriopoda</i> <i>Eremophila longifolia</i> <i>Hibiscus sturtii</i> var. <i>grandiflorus</i> <i>Pluchea ferdinandi-muelleri</i> <i>Ptilotus obovatus</i> <i>Rhagodia eremaea</i> <i>Senna artemisioides</i> subsp. <i>oligophylla</i> <i>Sida echinocarpa</i> <i>Solanum chippendalei</i> <i>Streptoglossa macrocephala</i></p>	<p>Species richness: 26 Landform: Sandplains</p>
				

Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
EgAIALM (Dune Complex)	Q33, Q99 M41, M67, M100, M101	<p>Acacia open shrubland.</p> <p>(± <i>Eucalyptus gamophylla</i>) <i>Acacia ligulata</i> and <i>Acacia</i> sp. Lake Mackay (P.K. Latz 12836) open shrubland, over <i>Triodia</i> (<i>Triodia salina</i>, <i>T. schinzii</i>, <i>T. basedowii</i>, or <i>T. pungens</i>) hummock grassland.</p>	<p><i>Acacia melleodora</i> <i>Aristida holathera</i> <i>Calandrinia pleiopetala</i> <i>Calocephalus platycephalus</i> <i>Dicrastylis doranii</i> <i>Eragrostis eriopoda</i> <i>Grevillea stenobotrya</i> <i>Leiocarpa semicalva</i> <i>Scaevola basedowii</i> <i>Scaevola parviflora</i> <i>Stylobasium spathulatum</i></p>	<p>Average species richness (mean ± SE): 20.5 ± 3.5</p> <p>Landform: Dune Swales</p>



Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
MgAIALM (Dune Complex)	Q63 M66, M64, M75	<i>Melaleuca</i> open shrubland. <i>Melaleuca glomerata</i> and <i>Acacia</i> (<i>A. ligulata</i> , <i>A. melleodora</i> , or <i>A. sp.</i> Lake Mackay (P.K. Latz 12836)) open shrubland over <i>Triodia</i> (<i>T. basedowii</i> , <i>T. pungens</i> , or <i>T. schinzii</i>) hummock grassland.	<i>Aristida holathera</i> <i>Grevillea stenobotrya</i> <i>Leiocarpa semicalva</i> <i>Melaleuca glomerata</i> <i>Newcastelia</i> aff. <i>bracteosa</i> [A. Craigie 1677.65.9]	Species richness: 10 Landform: Dune Swales and Foredunes



Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
AdAIALM (Dune Complex)	Q65	<p><i>Allocasuarina</i> open woodland.</p> <p><i>Allocasuarina</i> decaisneana open woodland, over <i>Acacia ligulata</i> and <i>Acacia</i> sp. Lake Mackay (P.K. Latz 12836) open shrubland, over <i>Triodia schinzii</i> hummock grassland.</p>	<p><i>Acacia melleodora</i> <i>Aristida holathera</i> <i>Dicrastyliis doranii</i> <i>Eragrostis eriopoda</i> <i>Grevillea stenobotrya</i> <i>Leiocarpa semicalva</i> <i>Newcastelia</i> aff. <i>bracteosa</i> [A. Craigie 1677.65.9] <i>Ptilotus arthrolasius</i> <i>Scaevola basedowii</i> <i>Stylobasium spathulatum</i></p>	<p>Species richness: 16 Landform: Dune Swales</p>



Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
Cc (Dune Complex)	Q27, Q32, Q76, Q98 M41, M83	<i>Corymbia</i> open woodland. <i>Corymbia chippendalei</i> open woodland over <i>Acacia</i> (<i>A. ligulata</i> , <i>A. sp.</i> Lake Mackay (P.K. Latz 12836), or <i>A. melleodora</i>) open shrubland, over <i>Newcastelia spodioptricha</i> and <i>Dicrastylis doranii</i> low open shrubland, over <i>Triodia</i> (<i>T. schinzii</i> or <i>T. pungens</i>) hummock grassland.	<i>Aristida holathera</i> <i>Corynotheca micrantha</i> <i>Crotalaria cunninghamii</i> <i>Eragrostis eriopoda</i> <i>Eriachne aristidea</i> <i>Grevillea stenobotrya</i> <i>Paractaenum refractum</i> <i>Ptilotus latifolius</i> <i>Ptilotus polystachyus</i> <i>Sida sp.</i> sand dunes (A.A. Mitchell PRP1208) <i>Trianthema pilosum</i>	Average species richness (mean ± SE): 21.7 ± 11 Landform: Dune Crests





Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
ALM (Island Dunes)	Q27 M94	<p><i>Acacia</i> open woodland.</p> <p><i>Acacia</i> sp. Lake Mackay (P.K. Latz 12836) open shrubland, over <i>Newcastelia spodiotricha</i> low open shrubland, over <i>Triodia pungens</i> hummock grassland.</p>	<p><i>Anthobolus leptomerioides</i></p> <p><i>Aristida holathera</i></p> <p><i>Corynotheca micrantha</i></p> <p><i>Grevillea stenobotrya</i></p> <p><i>Leiocarpa semicalva</i></p> <p><i>Paractaenum refractum</i></p> <p><i>Ptilotus latifolius</i></p> <p><i>Ptilotus polystachyus</i></p> <p><i>Sida</i> sp. sand dunes (A.A. Mitchell PRP1208)</p> <p><i>Stylobasium spathulatum</i></p> <p><i>Triumfetta winneckeana</i></p>	<p>Species richness: 17</p> <p>Landform: Dune Crests</p>




Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
FcTi (Saline Flats and Depressions)	Q34, Q102, Q106 M69	<p><i>Frankenia</i> open shrubland.</p> <p><i>Frankenia cordata</i> and <i>Tecticornia indica</i> subsp. <i>leiostachya</i> low open shrubland, over mixed low chenopods, over <i>Eragrostis falcata</i> scattered tussock grasses.</p>	<p><i>Angianthus cyathifer</i> <i>Aristida holathera</i> <i>Calocephalus platycephalus</i> <i>Eremophea spinosa</i> <i>Lawrencia glomerata</i> <i>Maireana luehmannii</i> <i>Nicotiana rosulata</i> <i>Scaevola collaris</i> <i>Swainsona cyclocarpa</i> <i>Tecticornia calyptata</i></p>	<p>Average species richness (mean ± SE): 20.6 ± 5.2</p> <p>Landform: Saline Flats and Depressions</p>




Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
Ti (Saline Flats and Depressions)	Q10, Q90, Q110 M71	<p><i>Tecticornia</i> open shrubland.</p> <p><i>Tecticornia</i> (<i>T. indica</i> subsp. <i>leiostachya</i>, <i>T. calyptrata</i>, <i>T. verrucosa</i>, or <i>T. pergranulata</i> subsp. <i>elongata</i>) low open shrubland, over <i>Eragrostis falcata</i> scattered tussock grasses.</p>	<p><i>Angianthus cyathifer</i> <i>Aristida holathera</i> <i>Atriplex vesicaria</i> <i>Calandrinia pleiopetala</i> <i>Calocephalus platycephalus</i> <i>Dysphania kalpari</i> <i>Eragrostis dielsii</i> <i>Goodenia maideniana</i> <i>Maireana luehmannii</i> <i>Melaleuca glomerata</i> <i>Neobassia astrocarpa</i> <i>Pluchea rubelliflora</i> <i>Streptoglossa bubakii</i></p>	<p>Average species richness (mean ± SE): 13 ± 0.5</p> <p>Landform: Saline Flats and Depressions</p>
				


Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
Mg (Claypan Plains)	Q15 M72, M108	<p><i>Melaleuca</i> open shrubland.</p> <p><i>Melaleuca glomerata</i> open shrubland over <i>Triodia</i> (<i>T. basedowii</i>, <i>T. salina</i>, or <i>T. schinzii</i>) hummock grassland.</p>	<p><i>Aristida contorta</i> <i>Calocephalus platycephalus</i> <i>Corchorus sidoides</i> <i>Eragrostis dielsii</i> <i>Eragrostis falcata</i> <i>Euphorbia tannensis</i> subsp. <i>eremophila</i> <i>Fimbristylis dichotoma</i> <i>Frankenia cordata</i> <i>Pluchea dunlopii</i> <i>Pluchea ferdinandi-muelleri</i> <i>Sclerolaena cuneata</i> <i>Sclerolaena urceolata</i></p>	<p>Species richness: 36</p> <p>Landform: Claypan Plains</p>
				

Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
SaFc (Claypan Plains)	Q70, Q87, Q105, Q111 M103, M104, M112	Senna open shrubland. (± <i>Acacia ligulata</i>) <i>Senna artemisioides</i> subsp. <i>oligophylla</i> and <i>Frankenia cordata</i> low open shrubland over mixed low chenopods over <i>Triodia</i> (<i>T. basedowii</i> , <i>T. salina</i> , or <i>T. schinzii</i>).	<i>Aristida holathera</i> <i>Calandrinia pleiopetala</i> <i>Calocephalus platycephalus</i> <i>Dactyloctenium radulans</i> <i>Eragrostis falcata</i> <i>Euphorbia tannensis</i> subsp. <i>eremophila</i> <i>Frankenia cordata</i> <i>Pterocaulon sphacelatum</i> <i>Ptilotus obovatus</i> <i>Sclerolaena crenata</i> <i>Sclerolaena urceolata</i> <i>Streptoglossa bubakii</i> <i>Wahlenbergia tumidifructa</i>	Average species richness (mean ± SE): 31.5 ± 5.5 Landform: Claypan Plains
				

Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
AdTp (Island Swales)	Q91	<p><i>Allocasuarina</i> open woodland.</p> <p><i>Allocasuarina decaisneana</i> open woodland, over <i>Triodia pungens</i> hummock grassland.</p>	<p><i>Acacia ligulata</i> <i>Eremophila latrobei</i> subsp. <i>latrobei</i> <i>Euphorbia tannensis</i> subsp. <i>eremophila</i> <i>Hakea divaricata</i> <i>Heliotropium glanduliferum</i> <i>Scaevola spinescens</i></p>	<p>Species richness: 8 Landform: Dune Swales</p>



Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
AITp (Island Swales)	Q26	<p><i>Acacia</i> open shrubland.</p> <p><i>Acacia ligulata</i> open shrubland over <i>Triodia pungens</i> hummock grassland.</p>	<p><i>Aristida holathera</i> <i>Enchylaena tomentosa</i> <i>Enneapogon polyphyllus</i> <i>Eragrostis eriopoda</i> <i>Eragrostis falcata</i> <i>Eremophea spinosa</i> <i>Euphorbia tannensis</i> subsp. <i>eremophila</i> <i>Ptilotus obovatus</i> <i>Scaevola spinescens</i> <i>Solanum cleistogamum</i> <i>Tribulus</i> sp. saline flats (P.K. Latz 4530) <i>Zygophyllum compressum</i></p>	<p>Species richness: 18</p> <p>Landform: Calcrete Swales</p>
				

Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
MgFcTp (Island Swales)	Q29 M95	<p><i>Melaleuca</i> open shrubland.</p> <p><i>Melaleuca glomerata</i> open shrubland over <i>Frankenia cordata</i> low open shrubland over <i>Triodia pungens</i> hummock grassland.</p>	<p><i>Aristida holathera</i> <i>Enneapogon polyphyllus</i> <i>Eragrostis eriopoda</i> <i>Eragrostis falcata</i> <i>Eremophea spinosa</i> <i>Neobassia astrocarpa</i> <i>Sclerolaena clelandii</i> <i>Sclerolaena fimbriolata</i> <i>Tribulus</i> sp. saline flats (P.K. Latz 4530) <i>Zygophyllum compressum</i></p>	<p>Species richness: 16</p> <p>Landform: Inter-dune Planes and Swales</p>
				

Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
LakeUpper (Lake Margin Complex)	4903, 4904, 4905, 4906, 5102, 5104, 5105, 5106, 5305, 5306, 5501, 5502, 5701, 5702, 6201, 6202	Upper lake profile typically dominated by <i>Frankenia cordata</i> , <i>Scaevola collaris</i> , <i>Maireana luehmannii</i> , and <i>Triodia salina</i> (<i>T. pungens</i> on islands).	<i>Angianthus cyathifer</i> <i>Aristida holathera</i> <i>Calocephalus platycephalus</i> <i>Eragrostis falcata</i> <i>Eremophea spinosa</i> <i>Lawrenzia glomerata</i> <i>Sclerolaena crenata</i> <i>Sclerolaena fimbriolata</i> <i>Stackhousia clementii</i> <i>Surreya diandra</i> <i>Swainsona cyclocarpa</i>	Average species richness (mean ± SE): 6.5 ± 0.3 Landform: Salt Lake Margin

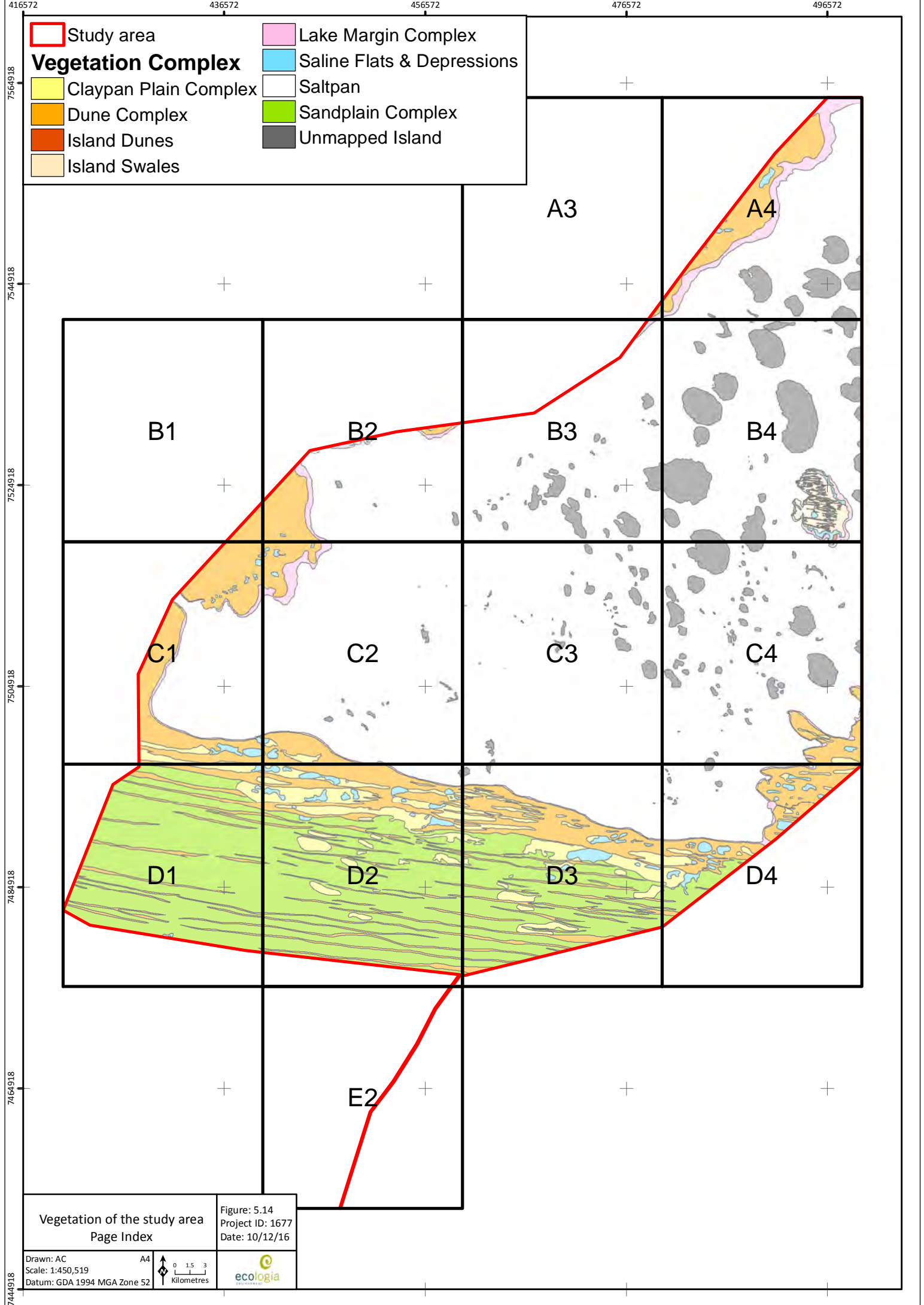


Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
LakeMid (Lake Margin Complex)	4902, 5503, 5504, 5703, 5704, 6203, 6204	Interzone between upper and lower lake profiles typically dominated by <i>Maireana luehmanii</i> , <i>Lawrencia glomerata</i> , <i>Surreya diandra</i> , <i>Scaevola collaris</i> , and <i>Tecticornia calyptrata</i> .	<i>Calocephalus platycephalus</i> <i>Eragrostis falcata</i> <i>Goodenia maideniana</i> <i>Neobassia astrocarpa</i> <i>Stackhousia clementii</i> <i>Swainsona cyclocarpa</i> <i>Tecticornia indica</i> subsp. <i>leiostachya</i> <i>Zygophyllum compressum</i>	Average species richness (mean ± SE): 5 ± 0.7 Landform: Salt Lake Margin



Vegetation type (mapping unit)	Representative Sites	Vegetation description (NVIS Level III and Level V)	Other typical species	Average species richness and landform
Lake Lower (Lake Margin Complex)	4901, 5101, 5103, 5301, 5302, 5303, 5304, 5505, 5506, 5705, 5706, 6205, 6206	Species poor and highly saline lower lake profile dominated by <i>Tecticornia calytrata</i> , <i>Tecticornia halocnemoides</i> subsp. <i>longispicata</i> , <i>Tecticornia globulifera</i> P1 (at island sites only), and <i>Eragrostis falcata</i> .	<i>Angianthus cyathifer</i> <i>Maireana luehmannii</i> <i>Scaevola collaris</i> <i>Sclerolaena fimbriolata</i> <i>Surreya diandra</i> <i>Tecticornia indica</i> subsp. <i>leiostachya</i> <i>Zygophyllum compressum</i>	Average species richness (mean ± SE): 3.5 ± 0.5 Landform: Salt Lake Margin





Vegetation of the study area
Page Index

Figure: 5.14
Project ID: 1677
Date: 10/12/16

Drawn: AC
Scale: 1:450,519
Datum: GDA 1994 MGA Zone 52



7444918

Quadrat

- 3 x 3 m
- 50 x 50 m
- Mapping Point
- Study area

Vegetation Complex

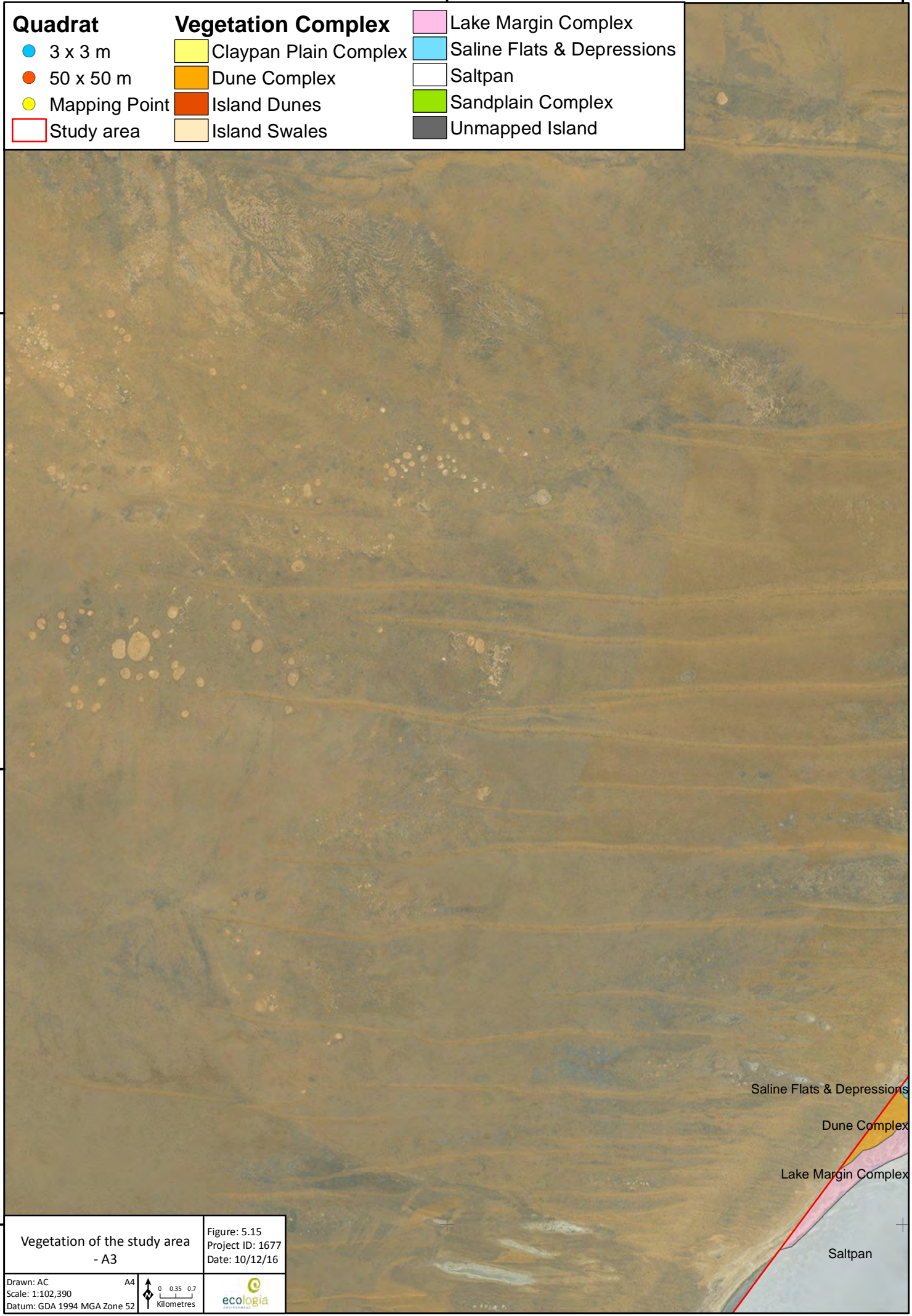
- Claypan Plain Complex
- Dune Complex
- Island Dunes
- Island Swales

- Lake Margin Complex
- Saline Flats & Depressions
- Saltpan
- Sandplain Complex
- Unmapped Island

7560000

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Saline Flats & Depressions

Dune Complex

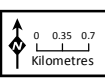
Lake Margin Complex

Saltpan

Vegetation of the study area
- A3

Figure: 5.15
Project ID: 1677
Date: 10/12/16

Drawn: AC
Scale: 1:102,390
Datum: GDA 1994 MGA Zone 52



490000

Quadrat

- 3 x 3 m
- 50 x 50 m
- Mapping Point
- Study area

Vegetation Complex

- Claypan Plain Complex
- Dune Complex
- Island Dunes
- Island Swales

- Lake Margin Complex
- Saline Flats & Depressions
- Saltpan
- Sandplain Complex
- Unmapped Island



Vegetation of the study area
- A4

Figure: 5.16
Project ID: 1677
Date: 10/12/16

Drawn: AC
Scale: 1:102,390
Datum: GDA 1994 MGA Zone 52

