

Appendix 22: Wetland Assessment 2008, within 3 km of the Wind Farm Study Area.

Wetland #	No. Brolga	Type	Habitat Value	Current condition of wetland	Comments
1		Freshwater meadow	Low	Grazed, dry, limited aquatic vegetation	
2		Shallow meadow	Low	Grazed, dry, limited aquatic vegetation	
3		Shallow meadow	Low	Grazed, dry, limited aquatic vegetation	
4		Shallow open swamp	High	Large swamp with emergent and submerged aquatic vegetation, tussock cover	
5		Freshwater marsh	Low-mod	Dry, grazed, section cropped, little aquatic vegetation	
6		Deep freshwater marsh	High	Revegetated large swamp with abundant vegetation (Poa, Themeda), fenced off	Pair of Brolgas adjacent
7		Shallow grassland swamp	Low	No aquatic vegetation, mostly all dry, grazed, depression in paddock	
8		Shallow grassland swamp	Low	No aquatic vegetation, mostly all dry, grazed, depression in paddock	
9		Shallow grassland swamp	Low	No aquatic vegetation, mostly all dry, grazed, depression in paddock	
10		Shallow grassland swamp	Low	No aquatic vegetation, mostly all dry, grazed, depression in paddock	
11		Shallow grassland swamp	Low	No aquatic vegetation, mostly all dry, grazed, depression in paddock	
12		Shallow grassland swamp	Low	No aquatic vegetation, mostly all dry, grazed, depression in paddock	
13		Grassland swamps	Low	No aquatic vegetation, mostly all dry, grazed, depression in paddock	
14		Grassland swamps	Low	No aquatic vegetation, mostly all dry, grazed, depression in paddock	
15		Grassland swamps	Low	No aquatic vegetation, mostly all dry, grazed, depression in paddock	
16		Grassland swamps	Low	No aquatic vegetation, mostly all dry, grazed, depression in paddock	

Wetland #	No. Brolga	Type	Habitat Value	Current condition of wetland	Comments
17		Grassland swamps	Low	No aquatic vegetation, mostly all dry, grazed, depression in paddock	
18		Shallow freshwater marsh	Low	Dry, grazed, little aquatic vegetation	
19		Shallow freshwater marsh	Low - mod	Dry, tussock cover, aquatic vegetation, near drainage line, Poa, rushes	
20		Shallow freshwater marsh	Low - mod	Dry, tussock cover, aquatic vegetation, near drainage line, Poa, rushes	
21		Freshwater meadow	Low	60% full, no aquatic vegetation, depression in paddock, Shelducks	
22		Deep freshwater marsh	Moderate	Large open swamp, fringing vegetation, grazed	Pair of Brolgas adjacent
23		Permanent open freshwater	Mod-high	Large open permanent lake with some fringing aquatic vegetation	
24		Shallow freshwater marsh	High	Large swamp with dense abundant vegetation e.g. Poa	
25		Freshwater meadow	Low - mod	Mainly dry with little aquatic vegetation	
26		Dam			
27		Dam			
28		Wetland	Low	Drained, grazed, dry, no vegetation, cropped, degraded	
29		Wetland	Low	Grazed, little water and vegetation	3 Brolgas (1 juvenile) adjacent
30				No access	
31				No access	
32				No access	
33				No access	
34				No access	

Wetland #	No. Brolga	Type	Habitat Value	Current condition of wetland	Comments
35				No access	
37		Freshwater meadow	Low-mod	Large open swamp, minimal aquatic vegetation	
38		Freshwater swamp-Slater Lake	Mod-high	Water in central part (10%), lake c. 100 ha, birds on lake: swans, Yellow. Spoonbill, Lapwings, few Grey Teal	
39		Large dry swamp	Low	Western section cropped, east side dry Poa tussocks swamp	
40		Dam		Large dam with dry marshy extension	
41		Dam		Farm dams with small grassy area covered with shallow water	
42		Dam		Large dam with water, one side dry marshy area, could become of moderate value if water covers the marshy area	
43		Freshwater swamp	Low	Large dry swamp, grazed, with little vegetation	
46		Farm dam		Dry dam	
47		Freshwater swamp	Low	Dry swamp, mostly cropped	
48		Freshwater meadow	Low	Grassy depression with little water and no aquatic vegetation	
49		Freshwater meadow	Low	Grassy depression with little water-converted dam, no aquatic vegetation	
50		Dry grass depression	Low	Dry	
51		Dry grass depression	Low	Dry	
52		Lake goldsmith	Low	Northern section, freshwater meadow, shallow water, no aquatic vegetation	
53		Dam			
54		Large grassy swamp	Low	Dry	
55		Large grassy swamp	Low	Shallow water on grass, no aquatic vegetation; part cropped	
56		Large grassy swamp	Low	Dry; converted to grazing paddock and partly cropped	

Wetland #	No. Brolga	Type	Habitat Value	Current condition of wetland	Comments
57		Large grassy swamp	Low	Dry	
58		Freshwater meadow-swamp	Moderate	Similar to 59, less vegetation and less water; c. 5%	
59	2	Freshwater meadow-swamp	Moderate	Large grassy depression with some sedges and tall grass, with shallow water covering 10% of wetland	
60		Freshwater meadow	Low	Large grassy depression with shallow water covering 10% of wetland	
61		Semi-permanent saline	Low-mod	Large lake, grazed, dry, some aquatic vegetation	
62		Shallow freshwater marsh	Low	Dry, grazed, no aquatic vegetation	
63		Freshwater meadow	Low	Some drained, dry, grazed, no aquatic vegetation, degraded condition	
64		Freshwater meadow	Low	Some drained, dry, grazed, no aquatic vegetation, degraded condition	
65		Freshwater meadow	Low	Some drained, dry, grazed, no aquatic vegetation, degraded condition	
66		Freshwater meadow	Low	Some drained, dry, grazed, no aquatic vegetation, degraded condition	
67		Shallow floodplain	Low	Dry, no aquatic vegetation, grazed, cultivated, intense farming practices	
68		Shallow freshwater marsh	Low-mod	Some water, minimal aquatic vegetation, swamps in grazed paddocks	
69		Shallow freshwater marsh	Low-mod	Some water, minimal aquatic vegetation, swamps in grazed paddocks	
70		Shallow freshwater marsh	Low-mod	Some water, minimal aquatic vegetation, swamps in grazed paddocks	
71		Shallow freshwater marsh	Low-mod	Some water, minimal aquatic vegetation, swamps in grazed paddocks	
72				No access	

Wetland #	No. Brolga	Type	Habitat Value	Current condition of wetland	Comments
73				No access	
74				No access	
76				No access	
77				No access	
78				No access	
79		Shallow swamp	Low	Drained, grazed, no aquatic vegetation, dry, cropped, degraded	
80		Shallow swamp	Low	Drained, grazed, no aquatic vegetation, dry, cropped, degraded	
81		Large dam		Large dam, grassy edges, no aquatic vegetation	
82		Dam with marshy edge	Low-mod	Large dam with deep water and extended marshy area with shallow water	
85		Farm dam		Large dam, rocky edges, no aquatic vegetation.	
86		Farm dam		Farm dams with small swampy edge	
87		Farm dam		Farm dams with small swampy edge	
88		Grassland swamp	Low	Swampy area with shallow water, little emergent vegetation (10% water).	
89		Farm dam		Large dam with grassy edges, no aquatic vegetation	
90		Farm dam		Group of small farm dams	
91		Farm dam		Large farm dam with bare edges	
92		Dry swamp	Low	Dry depression with some aquatic vegetation and sedges	
93		Dry swamp	Low	Dry swamp with good growth of aquatic vegetation	
94		Mt emu creek	Moderate	Expanded creek with good aquatic vegetation forming swamp	
95		Farm dam		Dammed section of a creek, currently dry	
96		Farm dam		Farm dams with bare edges	

Wetland #	No. Brolga	Type	Habitat Value	Current condition of wetland	Comments
97		Large swamp	Low	Dry and converted to cropped land	
98		Farm dam		Dam next to large dry swamp	
99		Large farm dam		Farm dam, no aquatic vegetation	
100		Farm dam			
101		Small swamp	Low	Little water, some aquatic vegetation	
102		Freshwater meadow	Low	Shallow wet area, no aquatic vegetation, grazed, 20% water	
103		Dams		Fringing and emergent aquatic vegetation, permanent freshwater, some waterbirds	
104		Dams		Fringing and emergent aquatic vegetation, permanent freshwater, some waterbirds	
105		Dam		Large dam on a creek, 70% water	
107		Freshwater meadow	Low	No aquatic vegetation, some water, some ducks, grazed	
108		Shallow freshwater marsh	Low-mod	Fenced off from domestic stock, large shallow swamp, minimal aquatic vegetation	
109		Dam		Some fringing vegetation	
110		Shallow freshwater swamp	Low-mod	Large dry swamp, grazed, some vegetation, no fringing aquatic vegetation	
111		Freshwater meadow	Low	Dry, cropped	
112		Shallow swamp	Low	Dry, grazed, no vegetation, degraded condition	
113		Shallow freshwater marsh	Moderate	50% water, no aquatic vegetation, large marsh area, numerous swans	
114		Shallow freshwater marsh	Moderate	Aquatic vegetation, not disturbed, moderate sized, currently dry	
115		Deep permanent lake	High	Deep, open freshwater lake, abundant aquatic vegetation, numerous waterbirds	
116		Shallow grassland	Low - mod	Dry shallow depression in paddock, some aquatic vegetation	

Wetland #	No. Brolga	Type	Habitat Value	Current condition of wetland	Comments
		swamp			
117		Deep permanent lake	High	Deep, open large lake, abundant aquatic vegetation, numerous waterbirds	
118		Grassy Swamp	Low	Southern arm of Slater Lake, currently dry	
119		Dam and connecting creek		Dammed creek, no aquatic vegetation, creek leading to Slater Lake	
120		Large swamp	Low	Dry large swampy vegetation area, could be important if inundated with water	
121		Freshwater meadow	Low	Depression filled with water, no aquatic vegetation.	
122		Swamp with Dam	Low-mod	Large dam with swampy edge and aquatic vegetation, few ducks	
123	2	Lake Goldsmith	Mod - high	Central section, swampy area with shallow water, last year breeding site	
124		Lake Goldsmith	Moderate	South-western corner, good aquatic vegetation little water pool	
125		Deep freshwater marsh	Low	Dry, no aquatic vegetation, drained, cultivated	
126		Freshwater swamp	Moderate	Large swampy area behind Dams 81 and 82 with little water (5%)	
127		Mt emu creek	Moderate	Expanded creek with good aquatic vegetation forming swamp	
128		Freshwater meadow	Low	Large grassy depression, with little shallow water (10%), few ducks	
129		Shallow swamp	Low	Dry	
130		Shallow swamp	Low	Dry	
132		Dam with marshy edge	Moderate	Large dam with swampy vegetation on one side of dam	
133		Farm dam		Dam with little swampy extension.	
134		Freshwater meadow	Low	Large grassy depression, with little shallow water (10%)	

Appendix 23: Flora Species – Powerline Study Area and Search Region

List shows species recorded in the powerline study area and threatened species known (or with the potential) to occur in the powerline search region.

Origin	Common Name	Scientific Name	Family Name	Conservation Status			Recorded
				FFG	EPBC	DSE	
	Adamson's Blown-grass	<i>Lachnagrostis adamsonii</i>	Poaceae	f	E	v	
	Austral Trefoil	<i>Lotus australis var. australis</i>	Fabaceae			k	
	Basalt Peppercross	<i>Lepidium hyssopifolium</i>	Brassicaceae	f	E	e	
	Basalt Tussock-grass	<i>Poa labillardierei var. (Volcanic Plains)</i>	Poaceae			k	
	Black-anther Flax-lily	<i>Dianella revoluta s.l.</i>	Hemerocallidaceae				X
	Blackwood	<i>Acacia melanoxylon</i>	Mimosaceae				X
	Brackish Plains Buttercup	<i>Ranunculus diminutus</i>	Ranunculaceae			r	
*	Brown-top Bent	<i>Agrostis capillaris</i>	Poaceae				X
*	Cane Needle-grass	<i>Nasella hyalina</i>	Poaceae				X
*	Cape Weed	<i>Arctotheca calendula</i>	Asteraceae				X
	Clover Glycine	<i>Glycine latrobeana</i>	Fabaceae	f	V	v	
*	Cocksfoot	<i>Dactylis glomerata</i>	Poaceae				X
	Common Everlasting	<i>Chrysocephalum apiculatum s.l.</i>	Asteraceae				X
*	Common Sow-thistle	<i>Sonchus oleraceus</i>	Asteraceae				X
	Common Tussock-grass	<i>Poa labillardierei</i>	Poaceae				X
	Cotton Fireweed	<i>Senecio quadridentatus</i>	Asteraceae				X
	Hairy Tails	<i>Ptilotus erubescens</i>	Amaranthaceae	f			
	Hedge Wattle	<i>Acacia paradoxa</i>	Mimosaceae				X
	Kangaroo Grass	<i>Themeda triandra</i>	Poaceae				X
	Lanky Buttons	<i>Leptorhynchos elongatus</i>	Asteraceae			e	
	Large River Buttercup	<i>Ranunculus papulentus</i>	Ranunculaceae			k	

Origin	Common Name	Scientific Name	Family Name	Conservation Status			Recorded
				FFG	EPBC	DSE	
	Large-headed Fireweed	<i>Senecio macrocarpus</i>	Asteraceae	f	V	e	
	Milky Beauty-heads	<i>Calocephalus lacteus</i>	Asteraceae				X
*	Oat	<i>Avena sp.</i>	Poaceae				X
*	Onion Grass	<i>Romulea rosea</i>	Iridaceae				X
	Pale Swamp Everlasting	<i>Helichrysum aff. rutidolepis (Lowland Swamps)</i>	Asteraceae			v	
*	Paspalum	<i>Paspalum dilatatum</i>	Poaceae				X
	Purple Blown-grass	<i>Lachnagrostis punicea subsp. filifolia</i>	Poaceae	f		r	
*	Radiata Pine	<i>Pinus radiata</i>	Pinaceae				X
	River Red-gum	<i>Eucalyptus camaldulensis</i>	Myrtaceae				X
*	Rough Sow-thistle	<i>Sonchus asper s.l.</i>	Asteraceae				X
	Rush	<i>Juncus spp.</i>	Juncaceae				X
	Salt-lake Tussock-grass	<i>Poa sallacustris</i>	Poaceae	f	V	v	
	Silver Banksia	<i>Banksia marginata</i>	Proteaceae				X
	Slender Bindweed	<i>Convolvulus angustissimus subsp. omnigracilis</i>	Convolvulaceae			k	
	Small Milkwort	<i>Comesperma polygaloides</i>	Polygalaceae	f		v	
	Small-flower Grevillea	<i>Grevillea micrantha</i>	Proteaceae			r	
#	Southern Blue Gum	<i>Eucalyptus globulus subsp. globulus</i>	Myrtaceae				X
	Southern Shepherd's Purse	<i>Ballantinia antipoda</i>	Brassicaceae	f	E	e	
	Spear Grass	<i>Austrostipa spp.</i>	Poaceae				X
	Spiny Rice-flower	<i>Pimelea spinescens subsp. spinescens</i>	Thymelaeaceae	f	C	e	
*	Sugar Gum	<i>Eucalyptus cladocalyx</i>	Myrtaceae				X
	Swamp Everlasting	<i>Xerochrysum palustre</i>	Asteraceae	f	V	v	
*	Sweet Briar	<i>Rosa rubiginosa</i>	Rosaceae				X
*	Toowoomba Canary-grass	<i>Phalaris aquatica</i>	Poaceae				X

Origin	Common Name	Scientific Name	Family Name	Conservation Status			Recorded
				FFG	EPBC	DSE	
	Variable Plantain	<i>Plantago varia</i>	Veronicaceae				X
	Wallaby-grass	<i>Austrodanthonia sp.</i>	Poaceae				X
	Wetland Blown-grass	<i>Lachnagrostis filiformis var. 2</i>	Poaceae			k	
	White Sunray	<i>Leucochrysum albicans subsp. albicans var. tricolor</i>	Asteraceae		E	e	
	Windmill Grass	<i>Chloris truncata</i>	Poaceae				X

Notes: * = introduced species; # = native species occurring outside of natural range; **FFG (f)** = listed as threatened under the *FFG Act*; **EPBC** = status under the *EPBC Act*; **DSE** = status in DSE Advisory List; **C** = critically endangered; **E, e** = endangered; **V, v** = vulnerable; **R, r** = rare; **k** = insufficiently known

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