

Class/Subclass	Family	Scientific Name	Common Name
		<i>Sporobolus elongatus</i>	Slender Rat's Tail Grass
		<i>Stenotaphrum secundatum</i> *	Buffalo Grass
		<i>Themeda australis</i>	Kangaroo Grass
		<i>Vulpia myuros</i> *	Rat's Tail Fescue
	Smilacaceae	<i>Ripogonum album</i>	White Supplejack
		<i>Ripogonum fawcettianum</i>	Small Supplejack
		<i>Smilax australis</i>	Lawyer Vine
		<i>Smilax glycyphylla</i>	Sarsaparilla
	Typhaceae	<i>Typha orientalis</i>	Cumbungi
	Xanthorrhoeaceae	<i>Xanthorrhoea latifolia</i> subsp. <i>latifolia</i>	-
		<i>Xanthorrhoea macronema</i>	-
	Zingiberaceae	<i>Alpinia caerulea</i>	Native Ginger









Species Name	Q19	Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q61	Q72	Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80	Q81
<i>Gymnostachys anceps</i>	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Hakea sericea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hardenbergia violacea</i>	2	0	0	0	0	2	0	0	0	0	0	1	1	0	0	1	0	1	1	0	0	0	0	2	1	1
<i>Hibbertia aspera</i>	1	0	0	0	0	2	0	0	0	0	0	3	2	3	0	0	1	0	0	0	2	0	0	1	0	0
<i>Hibbertia dentata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibbertia empetrifolia</i> subsp. <i>uncinata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibbertia pedunculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1
<i>Hibbertia scandens</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibiscus heterophyllus</i>	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hovea linearis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
<i>Howittia trilocularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hybanthus monopetalus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hydrocotyle bonariensis</i> *	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hydrocotyle geraniifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hydrocotyle peduncularis</i>	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hydrocotyle tripartita</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Hypochaeris radicata</i> *	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypoxis hygrometrica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Imperata cylindrica</i> var. <i>major</i>	0	1	0	0	2	0	2	0	0	0	1	3	0	0	2	0	0	0	0	0	3	0	0	0	0	2
<i>Indigofera australis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Isolepis nodosa</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Isopogon anemonifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Jacksonia scoparia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
<i>Joycea pallida</i>	4	2	0	0	4	5	0	0	0	0	0	0	3	4	0	5	4	4	0	0	0	5	5	4	3	2
<i>Juncus mollis</i>	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus usitatus</i>	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kennedia rubicunda</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lachnagrostis aemulus</i>	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lagenifera stipitata</i>	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lambertia formosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Lantana camara</i> *	0	1	1	5	0	1	2	2	1	1	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1
<i>Lastreopsis acuminata</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lastreopsis decomposita</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lepidosperma laterale</i>	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	3	1	0	0	0	0	1	1	0	0
<i>Leptospermum polygalifolium</i> subsp. <i>polygalifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0	2	0	0	0	0	1
<i>Leptospermum trinervium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0
<i>Leucopogon juniperinus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Leucopogon lanceolatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Libertia paniculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lindsaea linearis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
<i>Lindsaea microphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lissanthe strigosa</i> subsp. <i>strigosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0
<i>Lolium perenne</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lomandra confertifolia</i> var. <i>pallida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0	2	0	0	1	4	0
<i>Lomandra cylindrica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lomandra filiformis</i> subsp. <i>coriacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0
<i>Lomandra filiformis</i> subsp.	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	2



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<i>Paspalum urvillei*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Passiflora herbertiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pellaea falcata</i>	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pellaea paradoxa</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pennisetum clandestinum*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Persicaria lapathifolia</i>	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Persoonia levis</i>	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	2	0
<i>Persoonia linearis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	1
<i>Phebalium squamulosum</i> subsp. <i>squamulosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phragmites australis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllanthus hirtellus</i>	0	0	0	0	0	2	0	0	0	0	0	0	2	1	0	0	1	0	0	0	1	1	1	2	1	2
<i>Pimelea linifolia</i> subsp. <i>linifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Piper novae-hollandiae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pittosporum multiflorum</i>	2	0	2	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pittosporum revolutum</i>	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pittosporum undulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Planchonella australis</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plantago debilis</i>	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plantago lanceolata*</i>	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Platycerium bifurcatum</i> subsp. <i>bifurcatum</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus parviflorus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Poa affinis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Poa labillardieri</i> var. <i>labillardieri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	1	0	0
<i>Podolobium ilicifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Podolobium scandens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polymeria calycina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Polyscias sambucifolia</i>	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1
<i>Pomax umbellata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
<i>Poranthera microphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pratia purpurascens</i>	0	1	0	0	2	3	2	0	0	0	1	3	2	0	4	0	3	2	0	0	0	0	0	3	2	2
<i>Prostanthera incisa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
<i>Pseuderanthemum variabile</i>	1	0	0	0	0	2	0	0	0	0	1	0	2	0	0	1	1	1	0	0	2	0	1	1	2	1
<i>Pteridium esculentum</i>	0	0	0	0	0	0	2	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pterostylis curta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pterostylis longifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pterostylis nutans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pterostylis</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ptilothrix deusta</i>	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	2	0	0	0	4	4	1	0	4
<i>Pultenaea spinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pultenaea daphnoides</i>	0	0	0	0	0	2	0	0	0	0	0	0	4	0	0	1	0	0	0	0	0	0	0	3	4	3
<i>Pultenaea paleacea</i> var. <i>paleacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	2	0	0	0	0
<i>Pultenaea retusa</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pultenaea villosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
<i>Pyrrhosia rupestris</i>	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ranunculus inundatus</i>	0	0	0	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rapanea howittiana</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rapanea variabilis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Raphanus raphanistrum*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhodamnia rubescens</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0















Species Name	Q82	Q83	Q84	Q85	Q86	Q87	Q88	Q89	Q90	Q91	Q92	Q93	Q94	Q95	Q96	Q97	Q98	Q99	Q100	Q101	Q103	Q104	Q105	Q106
<i>Notelaea venosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ochna serrulata*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Olearia microphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Omalanthus populifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Onopordum acanthium</i> subsp. <i>acanthium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Opercularia aspera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Oplismenus aemulus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
<i>Oplismenus imbecillus</i>	4	0	0	0	1	0	3	0	0	2	0	0	0	0	0	0	1	0	0	2	3	1	2	3
<i>Oxalis perennans</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	1	0	0	0
<i>Ozothamnus diosmifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0
<i>Pandorea pandorana</i>	2	0	0	1	1	2	0	0	0	0	1	0	1	1	2	0	0	1	0	0	0	0	0	0
<i>Panicum maximum*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panicum simile</i>	0	0	0	2	0	1	0	1	0	0	0	1	0	1	0	1	0	0	2	0	0	2	0	0
<i>Pararchidendron pruinoseum</i> var. <i>pruinoseum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Parsonia straminea</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
<i>Paspalidium distans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Paspalum dilatatum*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Paspalum urvellei*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
<i>Passiflora herbertiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Pellaea falcata</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	2
<i>Pellaea paradoxa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pennisetum clandestinum*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Persicaria lapathifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Persoonia levis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Persoonia linearis</i>	0	0	0	0	0	2	1	0	0	0	0	1	0	0	1	0	0	2	0	0	0	0	0	0
<i>Phebalium squamulosum</i> subsp. <i>squamulosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
<i>Phragmites australis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllanthus hirtellus</i>	0	2	0	0	0	1	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0
<i>Pimelea linifolia</i> subsp. <i>linifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Piper novae-hollandiae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pittosporum multiflorum</i>	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Pittosporum revolutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<i>Pittosporum undulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
<i>Planchonella australis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plantago debilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plantago lanceolata*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Platynerium bifurcatum</i> subsp. <i>bifurcatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus parviflorus</i>	1	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
<i>Poa affinis</i>	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Poa labillardieri</i> var. <i>labillardieri</i>	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	0	0	4	0
<i>Podolobium ilicifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Podolobium scandens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polymeria calycina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polyscias sambucifolia</i>	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	1	0	0
<i>Pomax umbellata</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
<i>Poranthera microphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
<i>Pratia purpurascens</i>	0	0	0	3	1	1	2	1	0	0	1	1	0	1	0	1	1	1	2	2	1	1	1	0
<i>Prostanthera incisa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseuderanthemum variabile</i>	0	2	3	2	1	0	0	1	1	0	1	0	1	2	2	1	0	2	3	1	0	2	2	0
<i>Pteridium esculentum</i>	0	4	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	2	0	0	0	0
<i>Pterostylis curta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Pterostylis longifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0





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## Appendix 2

### Fauna Species List

# EXPECTED FAUNA SPECIES LIST

Below is a list of fauna species that could be *reasonably* expected to be found within the study area at some occurrence. Such an approach has been taken given the unlikelihood to record *all* potentially occurring species within an area during formal fauna surveys (due to seasonality, climatic limitations, crypticism etc).

Family sequencing and taxonomy follow for each fauna class:

Birds – Christidis and Boles (1994).

Herpetofauna - Cogger (1996).

Mammals - Strahan (ed) (1995) and Churchill (1998).

## KNOWN AND EXPECTED BIRD LIST

- Appendix Key:**
- P** = Species Detected
  - \* = Introduced species
  - (E)** = Species listed under NSW TSC Act 1995 as Endangered.
  - (V)** = Species listed under NSW TSC Act 1995 as Vulnerable.
  - (V\*)** = Species listed under the Commonwealth EPBC Act 1999 as Vulnerable
  - (E\*)** = Species listed under the Commonwealth EPBC Act 1999 as Endangered
  - (M\*)** = Species listed under the Commonwealth EPBC Act as Migratory
- Species indicated in **BOLD** font are those threatened species known from within 10km of site (Atlas of NSW Wildlife 2008)
- Data Source:**
- 1= Species recorded within Tank Paddock
  - 1a= Tank Paddock - Anecdotal Records Green Corridor Coalition
  - 2= Species recorded within Stockrington and George Booth Drive lands

Family Name	Scientific Name	Common Name	1	1a	2
Megapodiidae (Mound Builders)	<i>Alectura lathamii</i>	Australian Brush-turkey			ü
Phasianidae (True Quails, Pheasant and Fowls)	<i>Coturnix ypsilophora</i>	Brown Quail			ü
Anseranatidae (Magpie Goose)	<b>Anseranas semipalmata</b>	<b>Magpie Goose (V)</b>			
Anatidae (Swans, Geese and Ducks)	<i>Dendrocygna arcuata</i>	Wandering Whistling-duck	ü		
	<i>Anas castanea</i>	Chestnut Teal	ü		
	<i>Anas gracilis</i>	Grey Teal	ü		
	<i>Anas superciliosa</i>	Pacific Black Duck	ü		ü
	<i>Aythya australis</i>	Hardhead			
	<i>Chenonetta jubata</i>	Australian Wood Duck			
	<b>Oxyura australis</b>	<b>Blue-billed Duck (V)</b>			
	<b>Stictonetta naevosa</b>	<b>Freckled Duck (V)</b>			
Podicipedidae (Grebes)	<i>Tachybaptus novaehollandiae</i>	Australasian Grebe	ü		
	<i>Podiceps cristatus</i>	Great Crested Grebe			
Anhingidae (Darters)	<i>Anhinga melanogaster</i>	Darter			
Phalacrocoracidae (Cormorants)	<i>Phalacrocorax carbo</i>	Great Cormorant			

Family Name	Scientific Name	Common Name	1	1a	2
	<i>Phalacrocorax melanoleucos</i>	Little Pied Cormorant	ü		ü
	<i>Phalacrocorax sulcirostris</i>	Little Black Cormorant	ü		
	<i>Phalacrocorax varius</i>	Pied Cormorant			
Pelecanidae (Pelicans)	<i>Pelecanus conspicillatus</i>	Australian Pelican			
Podicipedidae (Grebes)	<i>Tachybaptus novaehollandiae</i>	Australasian Grebe	ü		
Ardeidae (Herons, Bitterns and Egrets)	<i>Ardea alba</i>	Great Egret	ü		
	<i>Ardea ibis</i>	Cattle Egret	ü		
	<i>Ardea intermedia</i>	Intermediate Egret	ü		
	<i>Ardea pacifica</i>	White-necked Heron			
	<b><i>Botaurus poiciloptilus</i></b>	<b>Australasian Bittern (V)</b>			ü
	<b><i>Ixobrychus flavicollis</i></b>	<b>Black Bittern (V)</b>			
	<i>Butorides striatus</i>	Striated Heron			
	<i>Egretta garzetta</i>	Little Egret			
	<i>Egretta novaehollandiae</i>	White-faced Heron			
	<i>Nycticorax caledonicus</i>	Nankeen Night Heron			
Threskiornithidae (Ibises and Spoonbills)	<i>Threskiornis molucca</i>	Australian White Ibis	ü		
	<i>Threskiornis spinicollis</i>	Straw-necked Ibis	ü		
Ciconiidae (Storks)	<b><i>Ephippiorhynchus asiaticus</i></b>	<b>Black-necked Stork (E)</b>			
Accipitridae (Hawks, Kites and Eagles)	<i>Accipiter fasciatus</i>	Brown Goshawk	ü		ü
	<i>Accipiter cirrhocephalus</i>	Collared Sparrowhawk			
	<i>Accipiter novaehollandiae</i>	Grey Goshawk	ü		ü
	<i>Aquila audax</i>	Wedge-tailed Eagle			ü
	<i>Aviceda subcristata</i>	Pacific Baza			ü
	<i>Circus approximans</i>	Swamp Harrier			
	<i>Circus assimilis</i>	Spotted Harrier			
	<i>Elanus axillaris</i>	Black-shouldered Kite			
	<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle	ü		
	<i>Haliastur sphenurus</i>	Whistling Kite	ü		
	<b><i>Hamirostra melanosternon</i></b>	<b>Black-breasted Buzzard (V)</b>			
	<i>Hieraaetus morphnoides</i>	Little Eagle			
	<b><i>Lophoictinia isura</i></b>	<b>Square-tailed Kite</b>			
	<b><i>Pandion haliaetus</i></b>	<b>Osprey (V)</b>			
Falconidae (Falcons)	<i>Falco berigora</i>	Brown Falcon			
	<i>Falco cenchroides</i>	Nankeen Kestrel			
	<i>Falco longipennis</i>	Australian Hobby			
Rallidae (Crakes, Rails and Gallinules)	<i>Fulica atra</i>	Eurasian Coot			
	<i>Gallinula philippensis</i>	Buff-banded Rail			
	<i>Gallinula tenebrosa</i>	Dusky Moorhen			
	<i>Porphyrio porphyrio</i>	Purple Swamphen	ü		
	<i>Porzana fluminea</i>	Australian Spotted Crake			
	<i>Porzana pusilla</i>	Baillon's Crake			
	<i>Porzana tabuensis</i>	Spotless Crake			

Family Name	Scientific Name	Common Name	1	1a	2
	<i>Rallus pectoralis</i>	Lewin's Rail			
	<i>Gallinula philippensis</i>	Buff-banded Rail			
Turnicidae (Button-Quails)	<i>Turnix varia</i>	Painted Button-quail			ü
Rostratulidae (Painted Snipe)	<b><i>Rostratula benghalensis</i></b>	<b>Painted Snipe (V)</b>			
Jacanidae (Jacanas)	<b><i>Irediparra gallinacea</i></b>	<b>Comb-crested Jacana (V)</b>			
Burhinidae (Stone-curlews)	<b><i>Burhinus grallarius</i></b>	<b>Bush Stone-curlew (E)</b>			
Charadriidae (Lapwings, Plovers and Dottrels)	<b><i>Charadrius mongolus</i></b>	<b>Lesser Sand Plover (M*, V)</b>			
	<i>Vanellus miles</i>	Masked Lapwing			
Haematopodidae (Oystercatchers)	<b><i>Haematopus longirostris</i></b>	<b>Pied Oystercatcher (V)</b>			
	<i>Vanellus miles</i>	Masked Lapwing			
Laridae (Gulls and Terns)	<i>Larus novaehollandiae</i>	Silver Gull			
	<b><i>Sterna albifrons</i></b>	<b>Little Tern (E)</b>			
Columbidae (Pigeons and Doves)	* <i>Columba livia</i>	Rock Dove			
	<i>Chalcophaps indica</i>	Emerald Dove			
	<i>Geopelia humeralis</i>	Bar-shouldered Dove			ü
	<i>Geopelia striata</i>	Peaceful Dove			ü
	<i>Leucosarcia melanoleuca</i>	Wonga Pigeon			ü
	<i>Macropygia amboinensis</i>	Brown Cuckoo-Dove	ü		ü
	<i>Lopholaimus antarcticus</i>	Topknot Pigeon			ü
	<i>Ocyphaps lophotes</i>	Crested Pigeon			
	<i>Phaps chalcoptera</i>	Common Bronzewing			ü
	<i>Phaps elegans</i>	Brush Bronzewing			
	<b><i>Ptilinopus magnificus</i></b>	<b>Wompoo Fruit-dove (V)</b>			
	<b><i>Ptilinopus regina</i></b>	<b>Rose-crowned Fruit-Dove (V)</b>			
	<b><i>Superb Fruit-Dove</i></b>	<b><i>Ptilinopus superbus</i> (V)</b>			
	* <i>Streptopelia chinensis</i>	Spotted Turtle-Dove			
Cacatuidae (Cockatoos)	<i>Calyptrohynchus funereus</i>	Yellow-tailed Black-Cockatoo			
	<b><i>Calyptrohynchus lathami</i></b>	<b>Glossy Black-Cockatoo (V)</b>			
	<b><i>Callocephalon fimbriatum</i></b>	<b>Gang-Gang Cockatoo (V)</b>			ü
	<i>Cacatua roseicapilla</i>	Galah	ü		
	<i>Cacatua tenuirostris</i>	Long-billed Corella			
	<i>Cacatua sanguinea</i>	Little Corella			
	<i>Cacatua galerita</i>	Sulphur-crested Cockatoo			
Psittacidae (Parrots)	<i>Alisterus scapularis</i>	Australian King Parrot	ü		ü
	<i>Glassopsitta pusilla</i>	Little Lorikeet	ü		ü
	<b><i>Lathamus discolor</i></b>	<b>Swift Parrot (E, E*)</b>			
	<b><i>Neophema pulchella</i></b>	<b>Turquoise Parrot (V)</b>			
	<i>Platycercus elegans</i>	Crimson Rosella			
	<i>Platycercus eximius</i>	Eastern Rosella	ü		ü
	<i>Psephotus haematonotus</i>	Red-rumped Parrot	ü		
	<i>Trichoglossus chlorolepidotus</i>	Scaly-breasted Lorikeet			ü

Family Name	Scientific Name	Common Name	1	1a	2
	<i>Glossopsitta concina</i>	Musk Lorikeet	ü		
	<i>Glossopsitta pusilla</i>	Little Lorikeet			ü
	<i>Trichoglossus haematodus</i>	Rainbow Lorikeet	ü		ü
Cuculidae (Old World Cuckoos)	<i>Cuculus saturatus</i>	Oriental Cuckoo (M*)			
	<i>Cacomantis flabelliformis</i>	Fan-tailed Cuckoo	ü		ü
	<i>Cacomantis variolosus</i>	Brush Cuckoo			ü
	<i>Chrysococcyx basalis</i>	Horsfield's Bronze-Cuckoo	ü		
	<i>Chrysococcyx lucidus</i>	Shining Bronze-Cuckoo	ü		ü
	<i>Cuculus pallidus</i>	Pallid Cuckoo	ü		ü
	<i>Eudynamys scolopacea</i>	Common Koel	ü		ü
	<i>Scythrops novaehollandiae</i>	Channel-billed Cuckoo	ü		
Centropodidae (Coucals)	<i>Centropus phasianinus</i>	Pheasant Coucal			
Strigidae (Hawk Owls)	<b><i>Ninox strenua</i></b>	<b>Powerful Owl (V)</b>	ü		
	<b><i>Ninox connivens</i></b>	<b>Barking Owl (V)</b>			
	<i>Ninox boobook</i>	Southern Boobook			
Tytonidae (Barn Owls)	<i>Tyto alba</i>	Barn Owl			
	<b><i>Tyto novaehollandiae</i></b>	<b>Masked Owl (V)</b>		ü	
Podargidae (Frogmouths)	<i>Podargus strigoides</i>	Tawny Frogmouth			ü
Caprimulgidae (Nightjars)	<i>Eurostopodus mystacalis</i>	White-throated Nightjar			
Halcyonidae (Kingfishers and Kookaburras)	<i>Dacelo novaeguineae</i>	Laughing Kookaburra	ü		ü
	<i>Todiramphus sanctus</i>	Sacred Kingfisher	ü		ü
Meropidae (Bee-eaters)	<i>Merops ornatus</i>	Rainbow Bee-eater (M*)			
Coraciidae (Typical Rollers)	<i>Eurystomus orientalis</i>	Dollarbird	ü		
Climacteridae (Australo-Papuan Treecreepers)	<i>Cormobates leucophaeus</i>	White-throated Treecreeper	ü		ü
	<b><i>Climacteris picumnus</i></b>	<b>Brown Treecreeper (V)</b>			ü
Maluridae (Fairy-Wrens and Emu-Wrens)	<i>Malurus cyaneus</i>	Superb Fairy-wren	ü		ü
	<i>Malurus lamberti</i>	Variiegated Fairy-wren	ü		ü
Pardalotidae (Pardalotes, Scrubwrens, Thornbills)	<i>Pardalotus punctatus</i>	Spotted Pardalote	ü		ü
	<i>Paradalogus striatus</i>	Striated Pardalote	ü		ü
	<i>Sericornis frontalis</i>	White-browed Scrubwren	ü		ü
	<i>Sericornis citreogularis</i>	Yellow-throated Scrubwren			ü
	<b><i>Chthonicola sagittata</i></b>	<b>Speckled Warbler (V)</b>			
	<i>Gerygone mouki</i>	Brown Gerygone	ü		ü
	<i>Gerygone olivacea</i>	White-throated Gerygone	ü		
	<i>Acanthiza pusilla</i>	Brown Thornbill	ü		ü
	<i>Acanthiza reguloides</i>	Buff-rumped Thornbill			
	<i>Acanthiza chrysorrhoa</i>	Yellow-rumped Thornbill	ü		
	<i>Acanthiza nana</i>	Yellow Thornbill	ü		ü
	<i>Acanthiza lineata</i>	Striated Thornbill	ü		ü
	<i>Hylacola pyrrhopygia</i>	Chestnut-rumped Heathwren			ü

Family Name	Scientific Name	Common Name	1	1a	2
Meliphagidae (Honeyeaters)	<i>Anthochaera carunculata</i>	Red Wattlebird			
	<i>Plectrhynga lanceolata</i>	Striped Honeyeater			ü
	<i>Anthochaera chrysoptera</i>	Brush Wattlebird			
	<i>Philemon corniculatus</i>	Noisy Friarbird	ü		ü
	<b><i>Xanthomyza phrygia</i></b>	<b>Regent Honeyeater (E, E*)</b>			
	<i>Manorina melanophrys</i>	Bell Miner	ü		ü
	<i>Manorina melanocephala</i>	Noisy Miner	ü		ü
	<i>Meliphaga lewinii</i>	Lewin's Honeyeater	ü		ü
	<i>Lichenostomus chrysops</i>	Yellow-faced Honeyeater	ü		ü
	<i>Lichenostomus melanops</i>	Yellow-tufted Honeyeater			ü
	<i>Lichenostomus penicillatus</i>	White-plumed Honeyeater			
	<i>Melithreptus brevirostris</i>	Brown-headed Honeyeater			ü
	<i>Melithreptus lunatus</i>	White-naped Honeyeater	ü		ü
	<b><i>Melithreptus gularis</i></b>	<b>Black-chinned Honeyeater (V)</b>			ü
	<i>Lichmera indistincta</i>	Brown Honeyeater			
	<i>Phylidonyris novaehollandiae</i>	New Holland Honeyeater			ü
	<i>Phylidonyris nigra</i>	White-cheeked Honeyeater			ü
<i>Acanthorhynchus tenuirostris</i>	Eastern Spinebill	ü		ü	
<i>Myzomela sanguinolenta</i>	Scarlet Honeyeater	ü		ü	
Eopsaltriidae (Robins)	<i>Microeca fascinans</i>	Jacky Winter			
	<i>Petroica rosea</i>	Rose Robin			ü
	<i>Eopsaltria australis</i>	Eastern Yellow Robin	ü		ü
	<b><i>Melanodryas cucullata</i></b>	<b>Hooded Robin (V)</b>			
Pomatostomidae (Australo-Papuan Babblers)	<b><i>Pomatostomus temporalis</i></b>	<b>Grey-crowned Babbler (V)</b>			
Cinclosomidae (Quail-thrushes and allies)	<i>Psophodes olivaceus</i>	Eastern Whipbird	ü		ü
Neosittidae (Sittellas)	<i>Daphoenositta chrysoptera</i>	Varied Sittella			ü
Pachycephalidae (Whistlers, Shrike-tit, Shrike-thrushes)	<i>Falcunculus frontatus</i>	Crested Shrike-tit			ü
	<i>Pachycephala pectoralis</i>	Golden Whistler	ü		ü
	<i>Pachycephala rufiventris</i>	Rufous Whistler	ü		ü
	<i>Colluricincla harmonica</i>	Grey Shrike-thrush	ü		ü
Dicruridae (Monarchs, Fantails and Drongo)	<i>Monarcha melanopsis</i>	Black-faced Monarch	ü		ü
	<i>Monarcha trivirgatus</i>	Spectacled Monarch	ü		
	<i>Myiagra cyanoleuca</i>	Satin Flycatcher			
	<i>Myiagra rubecula</i>	Leaden Flycatcher	ü		ü
	<i>Myiagra inquieta</i>	Restless Flycatcher			
	<i>Grallina cyanoleuca</i>	Magpie-lark	ü		ü
	<i>Rhipidura rufifrons</i>	Rufous Fantail	ü		ü
	<i>Rhipidura fuliginosa</i>	Grey Fantail	ü		ü
	<i>Rhipidura leucophrys</i>	Willie Wagtail	ü		ü
<i>Dicrurus bracteatus</i>	Spangled Drongo				
Campephagidae (Cuckoo-shrikes and	<i>Coracina novaehollandiae</i>	Black-faced Cuckoo-shrike	ü		ü

Family Name	Scientific Name	Common Name	1	1a	2
Trillers)					
	<i>Coracina tenuirostris</i>	Cicadabird			ü
	<i>Lalage sueurii</i>	White-winged Triller			ü
Oriolidae (Orioles and Figbird)	<i>Oriolus sagittatus</i>	Olive-backed Oriole	ü		ü
	<i>Sphecotheses viridis</i>	Figbird			
Artamidae (Woodswallows, Butcherbirds, Currawongs)	<i>Artamus leucorhynchus</i>	White-breasted Woodswallow	ü		
	<i>Artamus superciliosus</i>	White-browed Woodswallow			ü
	<i>Artamus cyanopterus</i>	Dusky Woodswallow			ü
	<i>Cracticus torquatus</i>	Grey Butcherbird	ü		ü
	<i>Cracticus nigrogularis</i>	Pied Butcherbird	ü		ü
	<i>Gymnorhina tibicen</i>	Australian Magpie	ü		ü
	<i>Strepera graculina</i>	Pied Currawong			ü
Corvidae (Crows and allies)	<i>Corvus coronoides</i>	Australian Raven	ü		ü
Corcoracidae (Mud-nesters)	<i>Corcorax melanorhamphus</i>	White-winged Cough			ü
Ptilinorhynchidae (Bowerbirds)	<i>Sericulus chrysocephalus</i>	Regent Bowerbird			ü
	<i>Ptilinorhynchus violaceus</i>	Satin Bowerbird			ü
Motacillidae (Old World Wagtails, Pipits)	<i>Anthus novaeseelandiae</i>	Richard's Pipit			
Passeridae (Sparrows, Weaverbirds, Waxbills)	* <i>Passer domesticus</i>	House Sparrow			
	<i>Taeniopygia guttata</i>	Zebra Finch			
	<i>Taeniopygia bichenovii</i>	Double-barred Finch			
	<i>Neochmia temporalis</i>	Red-browed Finch	ü		ü
	<i>Lonchura castaneothorax</i>	Chestnut-breasted Mannikin			
Dicaeidae (Flowerpeckers)	<i>Dicaeum hirundinaceum</i>	Mistletoebird	ü		ü
Hirundinidae (Swallows and Martins)	<i>Hirundo neoxena</i>	Welcome Swallow	ü		ü
	<i>Hirundo nigricans</i>	Tree Martin			
	<i>Hirundo ariel</i>	Fairy Martin	ü		
Sylviidae (Old World Warblers)	<i>Acrocephalus stentoreus</i>	Clamorous Reed Warbler	ü		
	<i>Cincloramphus mathewsi</i>	Rufous Songlark			ü
	<i>Cisticola exilis</i>	Golden-headed Cisticola	ü		
	<i>Megalurus gramineus</i>	Little Grassbird			
	<i>Megalurus timorensis</i>	Tawny Grassbird			
Zosteropidae (White-eyes)	<i>Zosterops lateralis</i>	Silvereye	ü		ü
Sturnidae (Starlings and allies)	* <i>Sturnus vulgaris</i>	Common Starling			
	* <i>Acridotheres tristis</i>	Common Myna	ü		

# KNOWN AND EXPECTED MAMMAL LIST

**Appendix Key:**

**P** = Species Detected  
 \* = Introduced species  
**(E)** = Species listed under NSW TSC Act 1995 as Endangered.  
**(V)** = Species listed under NSW TSC Act 1995 as Vulnerable.  
**(V\*)** = Species listed under the Commonwealth EPBC Act 1999 as Vulnerable  
**(E\*)** = Species listed under the Commonwealth EPBC Act 1999 as Endangered  
**(M\*)** = Species listed under the Commonwealth EPBC Act as Migratory  
 Species indicated in **BOLD** font are those threatened species known from within 10km of site (Atlas of NSW Wildlife 2008)

**Data Source:**

**1**= Species recorded within Tank Paddock  
**1a**= Tank Paddock - Anecdotal Records Green Corridor Coalition  
**2**= Species recorded within Stockrington and George Booth Drive lands

Family Name	Scientific Name	Common Name	1	1a	2
Tachyglossidae (Echidnas)	<i>Tachyglossus aculeatus</i>	Short-beaked Echidna			
Dasyuridae (Dasyurids)	<i>Antechinus stuartii</i>	Brown Antechinus			ü
	<i>Antechinus swainsonii</i>	Dusky Antechinus			
	<b><i>Dasyurus maculatus</i></b>	<b>Tiger Quoll (V, V*)</b>			
	<b><i>Planigale maculata</i></b>	<b>Common Planigale (V)</b>			
Peramelidae (Bandicoots and Bilbies)	<i>Isoodon macrourus</i>	Northern Brown Bandicoot			
	<i>Peremeles nasuta</i>	Long-nosed Bandicoot			
Phascolarctidae (Koala)	<b><i>Phascolarctos cinereus</i></b>	<b>Koala (V)</b>			ü
Vombatidae (Wombats)	<i>Vombatus ursinus</i>	Common Wombat			
Petauridae (Wrist-winged Gliders)	<i>Petaurus breviceps</i>	Sugar Glider			
	<b><i>Petaurus norfolcensis</i></b>	<b>Squirrel Glider (V)</b>			
	<b><i>Petaurus australis</i></b>	<b>Yellow-bellied Glider (V)</b>			
Pseudocheiridae (Ringtail Possums, Greater Glider)	<i>Pseudocheirus peregrinus</i>	Common Ringtail Possum			
	<i>Petauroides volans</i>	Greater Glider			
Acrobatidae (Feathertail Glider)	<i>Acrobates pygmaeus</i>	Feathertail Glider			
Phalangeridae (Brushtail Possums and Cuscuses)	<i>Trichosurus vulpecula</i>	Common Brushtail Possum			
Potoroidae (Potoroos and Bettongs)	<b><i>Potorous tridactylus</i></b>	<b>Long-nosed Potoroo (V, V*)</b>			
Macropodidae (Wallabies and Kangaroos)	<i>Macropus giganteus</i>	Eastern Grey Kangaroo			
	<i>Macropus rufogriseus</i>	Red-necked Wallaby			ü
	<i>Wallabia bicolor</i>	Swamp Wallaby			ü
Pteropodidae (Flying-foxes, Blossom- bats)	<b><i>Pteropus poliocephalus</i></b>	<b>Grey-headed Flying-fox (V, V*)</b>			
	<i>Pteropus scapulatus</i>	Little Red Flying-fox			
Rhinolophidae (Horseshoe-bats)	<i>Rhinolophus megaphyllus</i>	Eastern Horseshoe-bat			
Emballonuridae (Sheathtail-bats)	<b><i>Saccolaimus flaviventris</i></b>	<b>Yellow-bellied Sheathtail-bat (V)</b>			
Molossidae (Freetail-bats)	<b><i>Mormopterus norfolkensis</i></b>	<b>East Coast Freetail-bat (V)</b>		ü	

Family Name	Scientific Name	Common Name	1	1a	2
	<i>Tadarida australis</i>	White-striped Freetail-bat			
Vespertilionidae (Vespertilionid Bats)	<b><i>Miniopterus australis</i></b>	<b>Little Bentwing-bat (V)</b>		ü	
	<b><i>Miniopterus schreibersii</i></b>	<b>Common Bentwing-bat (V)</b>		ü	
	<i>Nyctophilus geoffroyi</i>	Lesser Long-eared Bat			
	<i>Nyctophilus gouldii</i>	Gould's Long-eared Bat			
	<b><i>Chalinolobus dwyeri</i></b>	<b>Large-eared Pied Bat (V, V*)</b>			
	<i>Chalinolobus gouldii</i>	Gould's Wattled Bat			
	<i>Chalinolobus morio</i>	Chocolate Wattled Bat			
	<b><i>Falsistrellus tasmaniensis</i></b>	<b>Eastern Falsistrelle (V)</b>			
	<b><i>Myotis adversus</i></b>	<b>Large-footed Myotis (V)</b>		ü	
	<b><i>Scoteanax rueppellii</i></b>	<b>Greater Broad-nosed Bat (V)</b>			
	<i>Scotorepens greyii</i>	Little Broad-nosed Bat			
	<i>Scotorepens orion</i>	Eastern Broad-nosed Bat			
	<i>Vespadelus darlingtoni</i>	Large Forest Bat			
	<i>Vespadelus regulus</i>	Southern Forest Bat			
	<i>Vespadelus pumilus</i>	Eastern Forest Bat			
	<i>Vespadelus vulturnus</i>	Little Forest Bat			
Muridae (Murids)	<i>Hydromys chrysogaster</i>	Water Rat			
	* <i>Mus musculus</i>	House Mouse			
	<i>Pseudomys novaehollandiae</i>	New Holland Mouse			
	<i>Rattus fuscipes</i>	Bush Rat			
	<i>Rattus lutreolus</i>	Swamp Rat			
	* <i>Rattus norvegicus</i>	Brown Rat			
	* <i>Rattus rattus</i>	Black Rat			
Canidae (Dogs)	* <i>Canis familiaris</i>	Dog			
	<i>Canis familiaris dingo</i>	Dingo			
	* <i>Vulpes vulpes</i>	Red Fox			
Felidae (Cats)	* <i>Felis catus</i>	Feral Cat			
Leporidae (Rabbit and Hare)	* <i>Oryctolagus cuniculus</i>	European Rabbit	ü		
	* <i>Lepus capensis</i>	Brown Hare			
Equidae (Horse and Donkey)	* <i>Equus caballus</i>	Horse			
Suidae (Pigs)	* <i>Sus scrofa</i>	Pig			
Bovidae (Horned Ruminants)	* <i>Bos taurus</i>	Cow			
	* <i>Capra hircus</i>	Goat			

# KNOWN AND EXPECTED REPTILE LIST

- Appendix Key:** **P** = Species Detected  
**(E)** = Species listed under NSW TSC Act 1995 as Endangered.  
**(V)** = Species listed under NSW TSC Act 1995 as Vulnerable.  
**(V\*)** = Species listed under the Commonwealth EPBC Act 1999 as Vulnerable  
**(E\*)** = Species listed under the Commonwealth EPBC Act 1999 as Endangered  
**(M\*)** = Species listed under the Commonwealth EPBC Act as Migratory  
Species indicated in **BOLD** font are those threatened species known from within 10km of site (Atlas of NSW Wildlife data 2008)
- Data Source:** 1 = Species recorded within Tank Paddock  
2 = Species recorded within Stockrington and George Booth Drive lands

Family Name	Scientific Name	Common Name	1	2
Chelidae (Tortoises)	<i>Chelodina longicollis</i>	Long-necked Tortoise		
Agamidae (Dragons)	<i>Amphibolurus muricatus</i>	Jacky Lizard		ü
	<i>Amphibolurus nobbi</i>	Nobbi		
	<i>Physignathus lesuerii</i>	Eastern Water Dragon	ü	
	<i>Pogona barbata</i>	Eastern Bearded Dragon		
Pygopodidae (Legless Lizards)	<i>Lialis burtonis</i>	Burton's Snake Lizard		
	<i>Pygopus lepidopus</i>	Common Scaly-foot		
	<i>Delma plebeia</i>	Leaden Delma		
Gekkonidae (Geckoes)	<i>Diplodactylus vittatus</i>	Wood Gecko		
	<i>Phyllurus platurus</i>	Southern Leaf-tailed Gecko		
	<i>Oedura lesueurii</i>	Lesueur's Velvet Gecko		
	<i>Underwoodisaurus milii</i>	Thick-tailed Gecko		
Varanidae (Monitors)	<i>Varanus gouldii</i>	Gould's Monitor		
	<i>Varanus varius</i>	Lace Monitor		ü
Scincidae (Skinks)	<i>Carlia tetradactyla</i>			
	<i>Cryptoblepharus virgatus</i>			
	<i>Ctenotus taeniolatus</i>	Copper-tailed Skink		
	<i>Ctenotus robustus</i>	Striped Skink		
	<i>Cyclodomorphus casuarinae</i>	She-oak Skink		
	<i>Egernia cunninghamii</i>	Cunningham's Skink		
	<i>Egernia major</i>	Land Mullet		
	<i>Egernia modesta</i>			
	<i>Egernia striolata</i>	Tree-crevice Skink		
	<i>Egernia saxatilis</i>	Black Rock Skink		
	<i>Egernia whitii</i>	White's Skink		
	<i>Eulamprus quoyii</i>	Eastern Water Skink		
	<i>Eulamprus tenuis</i>			ü
	<i>Lampropholis delicata</i>	Grass Skink	ü	ü
	<i>Lampropholis guichenoti</i>	Garden Skink		
	<i>Lygisaurus foliorum</i>	Tree-base Litter-skink		
	<i>Morethia boulengeri</i>	South-eastern Morethia		
	<i>Pseudomoia platynota</i>	Red-throated Skink		
	<i>Saiphos equalis</i>			
	<i>Saproscincus mustelinus</i>	Weasel Skink		
	<i>Tiliqua scincoides</i>	Eastern Blue-tongued Lizard		

Family Name	Scientific Name	Common Name	1	2
Typhlopidae (Blind Snakes)	<i>Ramphotyphlops bituberculatus</i>	Prong-snouted Blind Snake		
	<i>Ramphotyphlops weidii</i>	Brown-snouted Blind Snake		
	<i>Ramphotyphlops nigrescens</i>	Black Blind Snake		
Boidae (Pythons)	<i>Morelia spilota</i>	Diamond Python	ü	
Colubridae (Tree Snakes)	<i>Boiga irregularis</i>	Brown Tree Snake		
	<i>Dendrolaphis punctulata</i>	Green Tree Snake		
Elapidae (Venomous Snakes)	<i>Furina diadema</i>	Red-naped Snake		
	<i>Cacophis krefftii</i>	Dwarf Crowned Snake		
	<i>Demansia psammophis</i>	Yellow-faced Whip Snake		
	<i>Furina diadema</i>	Red-naped Snake		
	<i>Notechis scutatus</i>	Eastern Tiger Snake		
	<i>Pseudonaja textilis</i>	Eastern Brown Snake		
	<i>Rhinoplocephalus nigrescens</i>	Eastern Small-eyed Snake		
	<i>Vermicella annulata</i>	Bandy Bandy		
	<i>Hemiaspis signata</i>	Black-bellied Swamp Snake		
	<i>Pseudechis porphyriacus</i>	Red-bellied Black Snake		

# KNOWN AND EXPECTED FROG LIST

- Appendix Key:**     **P** = Species Detected  
**(E)** = Species listed under NSW TSC Act 1995 as Endangered.  
**(V)** = Species listed under NSW TSC Act 1995 as Vulnerable.  
**(V\*)** = Species listed under the Commonwealth EPBC Act 1999 as Vulnerable  
**(E\*)** = Species listed under the Commonwealth EPBC Act 1999 as Endangered  
**(M\*)** = Species listed under the Commonwealth EPBC Act as Migratory  
Species indicated in **BOLD** font are those threatened species known from within 10km of site (Atlas of NSW Wildlife data 2008)
- Data Source:**     1 = Species recorded within Tank Paddock  
2 = Species recorded within Stockrington and George Booth Drive lands

Family Name	Scientific Name	Common Name	1	2
Hylidae (Tree Frogs)	<i>Litoria aurea</i>	<b>Green and Golden Bell Frog (E, V*)</b>		
	<i>Litoria brevipalmata</i>	<b>Green-thighed Frog (V)</b>		
	<i>Litoria caerulea</i>	Green Tree Frog		
	<i>Litoria chloris</i>	Red-eyed Green Tree Frog		
	<i>Litoria dentata</i>	Bleating Tree Frog		
	<i>Litoria fallax</i>	Eastern Dwarf Tree Frog	ü	
	<i>Litoria latopalmata</i>	Broad-palmed Frog		
	<i>Litoria lesueuri</i>	Lesueur's Frog		
	<i>Litoria nasuta</i>	Rocket Frog		
	<i>Litoria peronii</i>	Peron's Tree Frog		
	<i>Litoria phyllochroa</i>	Green Leaf Tree Frog		
	<i>Litoria tyleri</i>	Tyler's Tree Frog		
	<i>Litoria verreauxii</i>	Verreaux's Frog		
Myobatrachidae (Ground Frogs)	<i>Adelotus brevis</i>	Tusked Frog		
	<i>Crinia signifera</i>	Common Eastern Froglet		
	<b><i>Crinia tinnula</i></b>	<b>Wallum Froglet (V)</b>		
	<i>Limnodynastes dumerilli</i>	Eastern Banjo Frog		
	<i>Limnodynastes ornatus</i>	Ornate Burrowing Frog		
	<i>Limnodynastes peronii</i>	Striped Marsh Frog		
	<i>Limnodynastes tasmaniensis</i>	Spotted Grass Frog		
	<i>Mixophyes fasciolatus</i>	Great Barred Frog		
	<i>Pseudophryne coriacea</i>	Red-backed Toadlet		ü
	<i>Pseudophryne bibronii</i>	Brown Toadlet		
	<i>Uperoleia fusca</i>	Dusky Toadlet		
<i>Uperoleia laevigata</i>	Smooth Toadlet			

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## Appendix 3

Letter from Royal Botanical Gardens, Sydney



## ROYAL BOTANIC GARDENS SYDNEY

RECEIVED  
30 JUL 2008

BY:.....

Ms Debbie LANDENBERGER  
Harper Somers O'Sullivan  
PO Box 428  
Hamilton, NSW 2303  
AUSTRALIA

Inquiry No: 13941  
Botanical.Is@rbgsyd.nsw.gov.au  
Fax No: (02) 9251 1952  
Ph No: (02) 9231 8111  
Date: 24 July 2008

Dear Ms LANDENBERGER,

In reply to your inquiry of 22-Jul-08, your reference 24530:DL, the following information is supplied:

I am happy to confirm the identification of your plant specimen from Stockrington as *Callistemon linearifolius*.

An invoice for \$33.00 (incl. GST) will be forwarded to you separately by our finance section to cover cost of identification.

Thank you for your inquiry.

Yours sincerely

Barbara Wiecek  
Identification Botanist  
Botanical Information Service



Go to our online Botanical Information Services at [plantnet.rbgsyd.nsw.gov.au](http://plantnet.rbgsyd.nsw.gov.au) to find out more about plants of New South Wales



Plate 1 Coastal Foothills Spotted Gum Ironbark Forest



Plate 2 Coastal Plains Smooth-barked Apple Woodland

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## Appendix 5

### Qualifications of Personnel

**MATTHEW DOHERTY**

Manager - Ecology & GIS

Newcastle, NSW

Bachelor of Landscape Management and Conservation (Land & Water Conservation Major), University of Western Sydney, 2002

Bushland Regeneration Certificate II, Western Sydney Institute of TAFE, 1999

Spikeless Tree Climbing Techniques, Total Height Safety, 2004

OH&S Induction Training (Green Card)

NPWS Scientific Investigation Licence

NSW Animal Ethics Research Authority

Senior First Aid

**AREAS OF EXPERTISE:**

Matt has seven years experience in the environmental industry with key skills in project management, survey design, GIS and client relations. In his position as Ecology & GIS Manager, Matt manages environment department including the day to day running of projects, verification of reports and other outputs and ensures clients are well informed of project progress and key findings. Matthew's background in local government, state government and private consultancy gives him a high level of appreciation of the environmental and consultancy sector, thus allowing him to take a pragmatic approach to providing successful conservation and development outcomes whilst meeting the aims and objectives of clients and determining authorities.

**SELECTED PROJECT EXPERIENCE:****Ecology and GIS**

- **Various large-scale land development, mining, energy and infrastructure projects** – Matt has project managed and/or participated in numerous large-scale land development, mining, energy and infrastructure projects including Queensland Hunter Gas Pipeline (850km); Hunter Gas Pipeline; Rio Tinto Lower Hunter Lands Project; GIS biodiversity, large scale vegetation, habitat and predicative modelling mapping works; wind farms and coordination of environmental monitoring programs for mines

**PREVIOUS EXPERIENCE:****Ecologist – Andrews Neil Pty Ltd****2004 - 2005**

Duties included: preparation of Fee Proposals for Ecological Services; General and Targeted Flora and Fauna Surveys including Flora and Fauna Identification; Desktop Studies and Literature Searches; Interpretation and Application of Legislation; report preparation including Threatened Species Assessments (8 part test), Vegetation Management Plans (Riparian Restoration/ Rehabilitation, Bush Regeneration), Species Impact Statements, Weed Management Strategies, Habitat Management Strategies and Tree Assessments; GIS/ Spatial Analysis and Database Management; Liaison with Client, Stakeholder Groups, State and Local Governing Bodies; Site Supervision of Ecological Conditions; Tree Climbing for installation, maintenance and monitoring of nestboxes.

**Project Officer / Horticultural Services – Gosford City Council****06/2003 – 05/2004**

Comprehensively reviewed noxious weed management; performed vegetation surveys on GCC landfills to identify the presence of noxious weeds; quantify the extent of infestation of each noxious weeds species and map the



## Curriculum Vitae

- CONTINUED -

affected areas; developed a management plan for the control of NW species identified in the survey in accordance with relevant legislation; maintained Japanese Gardens along with City Wide Gardens and Streetscapes.

### Various Roles whilst at University

1997 - 2002

#### Environmental Officer - Dept of Land & Water Conservation, Newcastle

01/1999 – 12/1999

Liaised with relevant agency and stakeholder groups; researched and prepared an extensive literature review of issues pertaining to riparian vegetation; assessed current best practice for revegetation and rehabilitation of degraded sites; prepared a Riparian Revegetation Management Strategy

#### Volunteer – Maitland City Council

07/1999 – 12/1999

Assisted with Rivercare implementation throughout LGA. Utilised primary, secondary and field research to prepare a River Plan under 'Rivercare' guidelines.

#### Volunteer – Brisbane Waters & Gosford Lagoons Catchment Management Committee

03/1998 – 05/1998

Prepared Riparian Zone Rehabilitation Plan for Degraded Creek Management, Research and prepared a Riparian Zone Rehabilitation Project. Member on several Gosford City Council steering committees and working groups.

### MEMBERSHIPS & ACHIEVEMENTS:

- Fire Protection Association Australia (FPAA)

## CRAIG ANDERSON

Senior Ecologist – Senior Project Manager

Newcastle, NSW

Bachelor Applied Science (Environmental Assessment & Management), University of Newcastle, 1994

Graduate Diploma in Archaeological Heritage, UNE, Current

RFS/PIA NSW Consulting Planners Bushfire Training

### AREAS OF EXPERTISE:

Craig has over 15 years experience in a wide range of environmental consulting. He has undertaken and managed commissions for a diverse range of projects within land development, energy, mining, infrastructure and conservation, including State Significant developments.

Craig has an extensive background in ecological field surveys, encompassing all aspects of flora and fauna identification, targeted surveying and mapping. He was involved in the initial formulation of an Association of Consulting Ecologists for NSW in 1998 and has acted as an expert witness in several Land and Environment Court matters relating to ecology and bushfire assessment. He is an experienced negotiator of ecological / development outcomes, and has a detailed understanding of legislation related to ecological matters.

Craig has been actively involved in representations to the Department of Environment on behalf of the NSW Urban Taskforce in regards to proposed changes to the NSW Threatened Species Conservation Act, and for the Urban Development Institute of Australia (UDIA) on matters relating to issues such as the proposed listing of endangered ecological communities, regional environmental biodiversity strategies, and the Native Vegetation Act and the operations of the Catchment Management Authority (CMA).

### SELECTED PROJECT EXPERIENCE:

#### Ecology

- **Buttaba Hills (336 Lots)** – Species Impact Statement
- **Hunter Economic Zone (800+ ha industrial estate)** – Species Impact Statement
- **Pelaw Main By-Pass to Hunter Economic Zone** – Species Impact Statement
- **Residential development / Eco-Resort / Fauna Sanctuary at Paxton** - Flora and Fauna Assessment incorporating Seven Part Tests of Significance of Impact under Threatened Species Legislation
- **SEPP 5 Aged Care facilities, Kariong, Hawks Nest, Wallsend, Glenhaven** - Flora and Fauna Assessment incorporating Seven Part Tests of Significance of Impact under Threatened Species Legislation
- **Caravan Park extensions, Fern Bay** - Flora and Fauna Assessment incorporating Seven Part Tests of Significance of Impact under Threatened Species Legislation
- **Road & Rail Infrastructure for the Hunter Economic Zone** - Flora and Fauna Assessment incorporating Seven Part Tests of Significance of Impact under Threatened Species Legislation
- **Alignments for Hunter Gas Pipeline Infrastructure** - Flora and Fauna Assessment incorporating Seven Part Tests of Significance of Impact under Threatened Species Legislation
- **Landscape Concept Plan, rural subdivision at Oakhampton Heights** - Vegetation Management Plan
- **Creek Rehabilitation Plan, Warners Bay** - Vegetation Management Plan
- **Vegetation Management Plan for a retained creek line with Sugar Valley Golf Course, West Wallsend** - Vegetation Management Plan
- **Individual Koala Plan of Management under SEPP 44 at Hawks Nest** – Management Plan



## Curriculum Vitae

- CONTINUED -

- **Ecological Constraints Management Plan, Hawks Nest North** - Management Plan
- **Management Plan for the Green & Golden Bell Frog at Culburra** - Management Plan
- **Fuel Management Plan over lots within a rural-residential estate at Glen Oak** - Management Plan
- **Ecological Constraints Master Plan for Hunter Economic Zone** - Management Plan
- **Environmental Plan of Management for Residential / Tourism Sanctuary Project at Paxton** - Management Plan
- **Green and Golden Bell Frog Survey and Management Plan, Gillieston Heights** - Targeted Species Study
- Targeted Species Studies as part of the Ecological Constraints Master Plan for the Hunter Economic Zone

### PREVIOUS EXPERIENCE:

#### **Senior Ecologist, Wildthing Environmental Consulting**

**1995 – 2000**

Oversaw operations in NSW and Qld, and project managed and undertook numerous ecological and bushfire assessments for a diverse array of clients / projects.

#### **Environmental Officer, Pulver Cooper & Blackley / Kel Nagle Cooper & Associates**

**1994 - 1995**

Undertook a range of environmental, planning and survey investigations; fieldwork; reporting for a range of land development; and golf course development projects.

### MEMBERSHIPS & ACHIEVEMENTS:

- Frog and Tadpole Study Group (FATS)
- Hunter Birds Observers Club (HBOC). Committee Member 2009. Records Appraisal Committee, 2008 – present
- Bird Observers Club of Australia (BOCA)
- Donaldson Conservation Trust. Board member (independent environmental expert). 2009 – present.



## Curriculum Vitae

<b>Name:</b>	Allan Richardson
<b>Office:</b>	RPS Harper Somers O'Sullivan
<b>Position in Company:</b>	Senior Ecologist
<b>Qualifications / Awards</b>	B.Env.Sc. (Environmental Management) B.Env.Sc. (Hons) (Biology) – Migratory Wading Bird Study 2002 Hunter Environmental Institute Scholarship Waterways Authority Boating Licence OH&S Induction Training (Green Card) NSW Driver's Licence (Class C) NPWS Scientific Licence NSW Animal Ethics Research Authority St John Ambulance Senior First Aid Certificate
<b>Memberships:</b>	Hunter Bird Observers Club Victorian Wader Study Group

### Areas of Expertise:

- Ornithological Surveys and Research
- Targeted and general Terrestrial flora and fauna surveys
- Threatened Flora & Fauna Assessment, Reporting and Legislation
- GPS Survey and GIS Mapping Projects
- High Level Nature Photography
- Tertiary and General Ecological Tutoring, Demonstrating and Presenting

### Recent Experience Includes:

Allan Richardson has broad range of Ecological Assessment reporting experience underpinned by over 27 years of ecological field experience. Over four and a half years of project experience has primarily included a range of flora and fauna assessment disciplines as required by a wide range of corporate and domestic client requirements. Allan has a strong grounding in threatened species ecology in both coastal and western NSW regional areas, with specialist migratory wader studies expertise in Central NSW and Roebuck Bay in North Western Australia.

Allan's wide ranging interest across different ecological disciplines, has been a central part of important threatened species projects, including, the Critically Endangered North Rothbury Persoonia, Hunter Estuary Green and Golden Bell Frog populations, Migratory Wader habitat usage surveys, seasonal Swift Parrot movements and specialised Avifauna Wind Farm Surveys on the east and west coast. Allan's broad ecological experience also represents an important part of RPS HSO's threatened flora and vegetation community mapping, targeted fauna survey works and threatened species habitat assessments over both small and large spatial areas for a range of client needs. His depth of experience and a strong knowledge of Australian fauna and regional vegetation contribute strongly to RPS HSO's ability to meet the consultation and regulatory needs of the development community.

## SARAH JONES

Ecologist / Bushfire Planner

Newcastle, NSW

B. Env.Sc, University of Newcastle

G.Dip (Design for Bushfire Areas)

RFS / PIA NSW Consulting Planners Bushfire Training Course

### AREAS OF EXPERTISE:

Sarah has over 10 years experience as an Ecologist, including over 8 years with RPS as the company's bushfire planning specialist. Sarah has gained extensive experience in Bushfire Threat Assessment & Management reporting, Bushfire Risk Management Plans, Fuel Management Plans, Bushfire Evacuation Plans, understanding of fire regimes upon flora and fauna, Vegetation Management Plans, Terrestrial flora and fauna surveys, Flora and Fauna Assessments, along with understanding of environmental legislation and threatened species issues.

### PREVIOUS EXPERIENCE:

**Ecologist – Ecotone Environmental Consultants, Waratah, NSW**

**Jan 2001 – Nov 2001**

**Volunteer Environmental Educator – Community Partnership,  
Newcastle City Council**

**Sept 2000 – Dec 2000**

### MEMBERSHIPS & ACHIEVEMENTS:

- Member of the Fire Protection Association Australia (FPA)
- Member of the Bushfire Planning and Design Special Interest Group (BPAD)
- NSW Driver's Licence (Class C)
- OH&S Induction Training (Green Card)
- NPWS Scientific Investigation Licence
- NSW Animal Ethics Research Authority

## TOBY LAMBERT

Senior Ecologist / Senior Project Manager

Newcastle, NSW

Bachelor of Environmental Science, University of Newcastle, 1993 - 1996

Accredited BioBanking Assessor, Tafe NSW – Ryde, 2009

NSW Driver's Licence (Class C)

OH&S Induction Training (Green Card)

NPWS Scientific Investigation Licence and NSW Animal Ethics Research Authority

### AREAS OF EXPERTISE:

Toby has over fourteen years experience in undertaking and managing a diverse array of ecological and environmental surveys and assessments. As a Senior Ecologist – Senior Project Manager, he supervises all facets of flora and fauna assessment and related reports: planning, supervision of field and reporting staff, project scheduling, budget management, liaising with clients and Government departments and providing advice of all kinds. He has also been called upon to prepare expert evidence for matters at the NSW Land and Environment Court. Toby has produced ecological and environmental documentation for private and public projects ranging in complexity. These include a number of wind farms throughout Australia and New Zealand, coal mines and a range of infrastructure projects within the Hunter region. Toby has also managed ecological master planning for residential projects in Sydney, the Central Coast and the Hunter. Toby's fields of expertise are Environmental Impact Assessment and mediation, flora, fauna and habitat survey method, design and identification, detailed understanding of legislation and threatened species issues, terrestrial fauna surveys and project management. He has experience in conducting comprehensive fauna surveys and preparing related documentation in a broad array of environments throughout New South Wales, with most projects located in the greater Sydney area, Blue Mountains, Central Coast, Hunter and Forster / Great Lakes regions. Toby has also undertaken ecological projects in Western Australia, Queensland, the ACT and New Zealand.

### SELECTED PROJECT EXPERIENCE:

#### Ecology

- **Hunter Economic Zone Industrial Estate** - Project Manager for the environmental component of the development of the Hunter Economic Zone industrial estate at Kurri Kurri, to be the largest industrial estate in NSW.
- **Centennial Coal** - Environmental Project Manager for consultancy works to Centennial Coal covering a broad range of disciplines, but primarily focussed on ecological impact assessments, monitoring and management at six coal mines in the western Blue Mountains and Lake Macquarie NSW.
- **Peabody Energy Australia** - Senior Project Manager for project specific and ongoing monitoring requirements for Wambo Coal Mine at Warkworth in the Upper Hunter Valley. Toby liaises directly with the Environmental Manager of the mine in relation to requirements to fulfil consent conditions for the ongoing development and operation of the project.
- **Allco Wind Energy** - This involved undertaking fauna surveys for a 100 turbine wind farm on the North Island of New Zealand and coordinating other ecological specialists to prepare an ecological impact assessment for submission to Taranaki Council. Aspects included regular liaison with the Department of Conservation regarding issues of significance, survey methodology, and mitigation and management measures to protect significant ecological features. Local bird groups were also involved and Toby was involved in the public consultation sessions.



## Curriculum Vitae

- CONTINUED -

- **Stockland Wallarah Peninsula** - This Lake Macquarie, NSW project required a multi-disciplinary approach to an innovative residential proposal on environmentally sensitive land. Project management of, and participation in, a large and diverse planning team were major features of this work. Toby was a pivotal member of the project management team that provided the detailed ecological input and advice that was required from the early stages of the planning process to the point of submission to determining authorities. The proposal required sophisticated and creative impact assessment and reporting. Toby made a major contribution to the production of a series of comprehensive ecological reports that ensured the ecological integrity of the site was maintained in the post-development landscape.

### PREVIOUS EXPERIENCE:

**Senior Project Manager - Cumberland Ecology, Epping** **2005**

Duties included flora and fauna surveying and survey design; overseeing and contribution to the preparation of complex ecological and environmental reports for both small and large projects; flora and fauna surveying and survey design; liaison with both the private sector and federal, state and local government departments.

**Principal Consultant / Co-Founder - Keystone Ecological, Kariong** **2004 - 2005**

Preparation and development of Keystone Ecological Flora and Fauna Impact Assessment report format; development of client database, including organisation of promotional material, logo design and customer relations; administration including preparation of quotes and invoices and organising accounts and BAS statements; Flora and fauna surveying and survey design; along with Anabat II Data Analysis.

**Project Manager - Ecology - Conacher Travers Environmental, Somersby** **1998 - 2004**

Supervision of flora and fauna survey design; report quality control; production of technical reports such as Review of Environmental Factors, Flora & Fauna Assessments, Statement of Environmental Effects, Species Impact Statements and Plans of Management, Land and Environment Court Evidence preparation, EPBC Act Referrals and Preliminary Information preparation; Flora & fauna surveying; liaison with Department of Environment and Conservation, Department of Environment and Heritage, Department of Infrastructure, Planning and Natural Resources, Department of Agriculture, Local Governments and private clients; Anabat II Data Analysis; Water Testing; Data Recording and Statistical Analysis.

**Volunteer for Green and Golden Bell Frog Survey - Australian Museum, North Avoca** **1999 - 2001**

Survey and searches for the endangered species Green & Golden Bell Frog; assisting in weighing, measuring and micro-chipping frogs for on-going research purposes.

**Environmental Scientist - Australian Defence Industries (ADI), St Marys** **1998**

Bore Water Sampling; statistical analysis of test results; and report production.

**Environmental Scientist - Anne Clements & Associates, North Sydney** **1997**

Field Assistant to Botanist and data recording.

**Research Assistant - University of Newcastle** **1996**

Initiation of design of final year project for Biology Dept; research into fire regimes on species composition & regeneration in open woodland; use of advanced scientific equipment including infra red gas analyser in the field, and replication of experiments using computer database; theoretical knowledge on soils, nutrient cycles & vegetation types.

### MEMBERSHIPS & ACHIEVEMENTS:

- Ecological Consultants Association of NSW (ECA) – Council Member
- Newcastle Green Drinks for Environmental Professionals organising committee

## Curriculum Vitae

**Name:** Shaun Corry

**Office:** RPS Newcastle

**Position in Company:** Ecologist

**Qualifications / Memberships:** Dip Conservation and Land Mgt  
NSW Driver's Licence (Class C)  
Waterways Authority Boating Licence  
OH&S Induction Training (Green Card)  
NPWS Scientific Investigation Licence  
NSW Animal Ethics Research Authority

### Areas of Expertise:

- Flora and fauna identification and habitat assessment
- Targeted threatened flora and fauna surveys
- Delineation and mapping of vegetation communities
- Endangered Ecological Community (EEC) assessment
- Experience with GPS/GIS for project design and mapping
- Conducting Field Surveys for Flora, Fauna and Habitat Identification
- Report Preparation including Fauna & Flora Assessments
- Ecological Monitoring and Reporting
- Bushfire Threat Assessment & Management reporting
- Understanding of environmental legislation

### Recent Experience Includes:

Shaun has a broad range of Ecological Assessment reporting experience and ecological field experience. Experience within the consulting industry has primarily included a wide range of flora assessment disciplines as required by a wide range of public and private clients. Shaun has a strong grounding in threatened flora species, endangered ecological communities and populations throughout NSW. Shaun has undertaken flora and fauna surveys including targeted surveys for threatened flora species within the Blue Mountains, Hunter, Central Coast, Mid North Coast and Southern Queensland.

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## Appendix 3

### Flora Species List

# FLORA SPECIES LIST

The following list includes all species of vascular plants observed on site during fieldwork. It should be noted that such a list couldn't be considered comprehensive, but rather indicative of the flora present on the site. It can take many years of flora surveys to record all of the plant species occurring within any area, especially plant species that are only apparent in some seasons such as Orchids.

A number of species cannot always be accurately identified during a brief survey, generally due to a lack of suitable flowering and/or fruiting material. Any such species are identified as accurately as possible, and are indicated in the list as indicated:

- specimens that could only be identified to genus level are indicated by the generic name followed by the abbreviation "sp.", indicating an unidentified species of that genus;
- specimens for which identification of the genus was uncertain are indicated by a question mark ("?") placed in front of the generic, which is followed by the abbreviation "sp." and;
- specimens that could be accurately identified to genus level, but could be identified to species level with only a degree of certainty are indicated by a ("?") placed in front of the epithet.

Authorities for the scientific names are not provided in the list. These follow the references outlined below.

Harden, G. (ed) (2000). *Flora of New South Wales, Volume 1*. Revised edition. UNSW, Kensington, NSW.

Harden, G. (ed) (2002). *Flora of New South Wales, Volume 2*. Revised edition. UNSW, Kensington, NSW.

Harden, G. (ed) (1992). *Flora of New South Wales, Volume 3*. UNSW, Kensington, NSW.

Harden, G. (ed) (1993). *Flora of New South Wales, Volume 4*. UNSW, Kensington, NSW. Names of families and higher taxa follow a modified Cronquist System (1981).

Introduced species are indicated by an asterisk "\*".

Threatened species listed under the Threatened Species Conservation Act 1995 (TSC Act 1995) or the Environmental Protection of Biodiversity and Conservation (EPBC Act 1999) and / or Rare or Threatened Australian Plant (ROTAP) listed species are indicated in bold font and marked as:

(V) = *Vulnerable Species listed under the TSC Act*

(E) = *Endangered Species listed under the TSC Act*

(EE) = *Species listed under the Commonwealth EPBC Act 1999 as Endangered*

(EV) = *Species listed under the Commonwealth EPBC Act 1999 as Vulnerable*

(R) = *ROTAP as per Briggs and Leigh (1996)*

The following standard abbreviations are used to indicate subspecific taxa:

ssp. - subspecies

var.- variety

agg. aggregate

× - hybrid between the two indicated species

**Table D-1: Flora List for Link Road - Minmi**

<b>Class / Subclass</b>	<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Coniferopsida	Pinaceae	<i>Pinus radiata</i> *	Radiata or Monterey Pine
Filicopsida	Adiantaceae	<i>Adiantum aethiopicum</i>	Common Maidenhair
Filicopsida	Adiantaceae	<i>Adiantum formosum</i>	Giant Maidenhair
Filicopsida	Azollaceae	<i>Azolla pinnata</i>	Ferny Azolla
Filicopsida	Blechnaceae	<i>Blechnum indicum</i>	-
Filicopsida	Blechnaceae	<i>Blechnum nudum</i>	-
Filicopsida	Blechnaceae	<i>Doodia aspera</i>	Rasp Fern
Filicopsida	Dennstaedtiaceae	<i>Pteridium esculentum</i>	Bracken
Filicopsida	Dicksoniaceae	<i>Calochlaena dubia</i>	False Bracken
Filicopsida	Sinopteridaceae	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	Poison Rock Fern
Filicopsida	Sinopteridaceae	<i>Pellaea falcata</i>	Sickle Fern
Filicopsida	Sinopteridaceae	<i>Pellaea paradoxa</i>	-
Magnoliidae	Acanthaceae	<i>Brunoniella australis</i>	Blue Trumpet
Magnoliidae	Acanthaceae	<i>Pseuderanthemum</i> <i>variabile</i>	Pastel Flower
Magnoliidae	Acanthaceae	<i>Thunbergia alata</i> *	Black-eyed Susan
Magnoliidae	Amaranthaceae	<i>Alternanthera denticulata</i>	Lesser Joyweed
Magnoliidae	Amaranthaceae	<i>Nyssanthes diffusa</i>	Barbwire Weed
Magnoliidae	Apiaceae	<i>Centella asiatica</i>	Swamp Pennywort
Magnoliidae	Apiaceae	<i>Hydrocotyle bonariensis</i> *	Kurnell Curse / Pennywort
Magnoliidae	Apiaceae	<i>Hydrocotyle peduncularis</i>	Pennywort
Magnoliidae	Apiaceae	<i>Hydrocotyle tripartita</i>	Pennywort
Magnoliidae	Apiaceae	<i>Trachymene incisa</i> subsp. <i>incisa</i>	Native Parsnip
Magnoliidae	Apocynaceae	<i>Parsonsia straminea</i>	Common Silkpod
Magnoliidae	Araliaceae	<i>Polyscias sambucifolia</i>	Elderberry Panax
Magnoliidae	Asclepiadaceae	<i>Marsdenia rostrata</i>	Common Milk Vine
Magnoliidae	Asclepiadaceae	<i>Marsdenia suaveolens</i>	Scented Marsdenia
Magnoliidae	Asclepiadaceae	<i>Tylophora barbata</i>	Bearded Tylophora
Magnoliidae	Asteraceae	<i>Ageratina adenophorum</i> *	Crofton Weed
Magnoliidae	Asteraceae	<i>Bidens pilosa</i> *	Cobbler's Pegs
Magnoliidae	Asteraceae	<i>Cirsium vulgare</i> *	Spear Thistle
Magnoliidae	Asteraceae	<i>Conyza bonariensis</i> *	Flax-leaf Fleabane
Magnoliidae	Asteraceae	<i>Gnaphalium americanum</i> *	Cudweed

<b>Class / Subclass</b>	<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Magnoliidae	Asteraceae	<i>Hypochaeris radicata</i> *	Flatweed
Magnoliidae	Asteraceae	<i>Lagenifera stipitata</i>	-
Magnoliidae	Asteraceae	<i>Ozothamnus diosmifolius</i>	Ball Everlasting
Magnoliidae	Asteraceae	<i>Senecio hispidulus</i> var. <i>hispidulus</i>	Fireweed
Magnoliidae	Asteraceae	<i>Senecio linearifolius</i>	Fireweed
Magnoliidae	Asteraceae	<i>Senecio madagascariensis</i> *	Fireweed
Magnoliidae	Asteraceae	<i>Sigesbeckia orientalis</i>	Indian Weed
Magnoliidae	Asteraceae	<i>Vernonia cinerea</i> var. <i>cinerea</i>	-
Magnoliidae	Bignoniaceae	<i>Pandorea pandorana</i>	Wonga Vine
Magnoliidae	Campanulaceae	<i>Wahlenbergia gracilis</i>	Australian Bluebell
Magnoliidae	Carophyllaceae	<i>Cerastium glomeratum</i> *	Mouse-ear Chickweed
Magnoliidae	Caryophyllaceae	<i>Stellaria media</i> *	Common Chickweed
Magnoliidae	Casuarinaceae	<i>Allocasuarina littoralis</i>	Black She-oak
Magnoliidae	Casuarinaceae	<i>Allocasuarina torulosa</i>	Forest Oak
Magnoliidae	Celastraceae	<i>Cassine australis</i> var. <i>australis</i>	Red Olive Plum
Magnoliidae	Celastraceae	<i>Maytenus silvestris</i>	-
Magnoliidae	Cesalpinoideae	<i>Senna pendula</i> var. <i>glabrata</i> *	-
Magnoliidae	Chenopodiaceae	<i>Einadia hastata</i>	Berry Saltbush
Magnoliidae	Commelinaceae	<i>Commelina cyanea</i>	Scurvy Weed
Magnoliidae	Commelinaceae	<i>Tradescantia fluminensis</i> *	Wandering Jew
Magnoliidae	Convolvulaceae	<i>Dichondra repens</i>	Kidney Weed
Magnoliidae	Convolvulaceae	<i>Polymeria calycina</i>	Bindweed
Magnoliidae	Dilleniaceae	<i>Hibbertia aspera</i>	Rough Guinea Flower
Magnoliidae	Dilleniaceae	<i>Hibbertia empetrifolia</i>	-
Magnoliidae	Dilleniaceae	<i>Hibbertia pedunculata</i>	-
Magnoliidae	Dilleniaceae	<i>Hibbertia scandens</i>	Climbing Guinea-flower
Magnoliidae	Eleocarpaceae	<i>Elaeocarpus reticulatus</i>	Blueberry Ash
Magnoliidae	Epacridaceae	<i>Epacris pulchella</i>	NSW Coral Heath
Magnoliidae	Escallionaceae	<i>Abrophyllum ornans</i>	Native Tamarind
Magnoliidae	Euphorbiaceae	<i>Breynia oblongifolia</i>	Coffee Bush
Magnoliidae	Euphorbiaceae	<i>Claoxylon australe</i>	Brittlewood
Magnoliidae	Euphorbiaceae	<i>Glochidion ferdinandii</i>	Cheese Tree

<b>Class / Subclass</b>	<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Magnoliidae	Euphorbiaceae	<i>Omalanthus populifolius</i>	Bleeding Heart
Magnoliidae	Euphorbiaceae	<i>Phyllanthus gunnii</i>	Spurge
Magnoliidae	Euphorbiaceae	<i>Phyllanthus hirtellus</i>	Thyme Spurge
Magnoliidae	Euphorbiaceae	<i>Poranthera microphylla</i>	-
Magnoliidae	Fabaceae	<i>Daviesia squarrosa</i>	-
Magnoliidae	Fabaceae	<i>Daviesia ulicifolia</i>	Gorse Bitter Pea
Magnoliidae	Fabaceae	<i>Desmodium rhytidophyllum</i>	-
Magnoliidae	Fabaceae	<i>Desmodium varians</i>	-
Magnoliidae	Fabaceae	<i>Dillwynia retorta</i> var. <i>retorta</i>	Eggs and Bacon
Magnoliidae	Fabaceae	<i>Erythrina X sykesii</i> *	Coral Tree
Magnoliidae	Fabaceae	<i>Glycine clandestina</i>	Twining Glycine
Magnoliidae	Fabaceae	<i>Glycine tabacina</i>	Twining Glycine
Magnoliidae	Fabaceae	<i>Gompholobium grandiflorum</i>	Golden Glory Pea
Magnoliidae	Fabaceae	<i>Gompholobium latifolium</i>	Broad-leaf Wedge-pea
Magnoliidae	Fabaceae	<i>Hardenbergia violacea</i>	False Sarsparilla
Magnoliidae	Fabaceae	<i>Hovea linearis</i>	-
Magnoliidae	Fabaceae	<i>Indigofera australis</i>	Native Indigo
Magnoliidae	Fabaceae	<i>Jacksonia scoparia</i>	Dogwood
Magnoliidae	Fabaceae	<i>Kennedia rubicunda</i>	Dusky Coral Pea
Magnoliidae	Fabaceae	<i>Mirbelia rubiifolia</i>	-
Magnoliidae	Fabaceae	<i>Pultenaea cunninghamii</i>	-
Magnoliidae	Fabaceae	<i>Pultenaea daphnoides</i>	Large-leaf Bush Pea
Magnoliidae	Fabaceae	<i>Pultenaea elliptica</i>	-
Magnoliidae	Fabaceae	<i>Pultenaea paleacea</i> var. <i>paleacea</i>	-
Magnoliidae	Fabaceae	<i>Pultenaea retusa</i>	-
Magnoliidae	Fabaceae	<i>Pultenaea villosa</i>	-
Magnoliidae	Fabaceae	<i>Trifolium dubium</i> *	Yellow Suckling Clover
Magnoliidae	Fabaceae	<i>Trifolium repens</i> *	White Clover
Magnoliidae	Fabaceae	<i>Vicia sativa</i> subsp. <i>sativa</i> *	Common Vetch
Magnoliidae	Gentianaceae	<i>Centaurium tenuiflorum</i> *	Common Century
Magnoliidae	Geraniaceae	<i>Geranium homeanum</i>	Northern Cranesbill
Magnoliidae	Goodeniaceae	<i>Goodenia heterophylla</i> subsp. <i>heterophylla</i>	Variable Leaved Goodenia

<b>Class / Subclass</b>	<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Magnoliidae	Haloragaceae	<i>Gonocarpus tetragynus</i>	Poverty Raspwort
Magnoliidae	Haloragaceae	<i>Gonocarpus teucroides</i>	Raspwort
Magnoliidae	Haloragaceae	<i>Myriophyllum aquaticum</i> *	Brazilian Water Milfoil
Magnoliidae	Lamiaceae	<i>Plectranthus parviflorus</i>	Cockspur Flower
Magnoliidae	Lamiaceae	<i>Prostanthera incisa</i>	-
Magnoliidae	Lamiaceae	<i>Scutellaria mollis</i>	Soft Skull Cap
Magnoliidae	Lauraceae	<i>Cassytha glabella</i> forma <i>glabella</i>	Slender Devil's Twine
Magnoliidae	Lauraceae	<i>Cassytha pubescens</i>	Common Devil's Twine
Magnoliidae	Lauraceae	<i>Cinnamomum camphora</i> *	Camphor Laurel
Magnoliidae	Lauraceae	<i>Cryptocarya glaucescens</i>	Jackwood
Magnoliidae	Lauraceae	<i>Cryptocarya microneura</i>	Murrogun
Magnoliidae	Lobeliaceae	<i>Pratia purpurascens</i>	Whiteroot
Magnoliidae	Loranthaceae	<i>Muellerina eucalyptoides</i>	Mistletoe
Magnoliidae	Malvaceae	<i>Hibiscus heterophyllus</i>	Native Rosella
Magnoliidae	Malvaceae	<i>Malva parviflora</i> *	Small-flowered Mallow
Magnoliidae	Malvaceae	<i>Sida rhombifolia</i> *	Paddy's Lucerne
Magnoliidae	Meliaceae	<i>Melia azedarach</i> var. <i>australasica</i>	White Cedar
Magnoliidae	Meliaceae	<i>Synoum glandulosum</i>	Scentless Rosewood
Magnoliidae	Menispermaceae	<i>Sarcopetalum harveyanum</i>	Pearl Vine
Magnoliidae	Menispermaceae	<i>Stephania japonica</i> var. <i>discolor</i>	Snake Vine
Magnoliidae	Mimosaceae	<i>Acacia binervata</i>	Two-veined Hickory
Magnoliidae	Mimosaceae	<i>Acacia falcata</i>	Sickle Wattle
Magnoliidae	Mimosaceae	<i>Acacia floribunda</i>	Sally Wattle
Magnoliidae	Mimosaceae	<i>Acacia implexa</i>	Hickory
Magnoliidae	Mimosaceae	<i>Acacia irrorata</i> subsp. <i>irrorata</i>	Green Wattle
Magnoliidae	Mimosaceae	<i>Acacia longifolia</i> var. <i>longifolia</i>	Sydney Golden Wattle
Magnoliidae	Mimosaceae	<i>Acacia maidenii</i>	Maiden's Wattle
Magnoliidae	Mimosaceae	<i>Acacia myrtifolia</i>	Red Stem Wattle
Magnoliidae	Mimosaceae	<i>Acacia suaveolens</i>	Sweet Scented Wattle
Magnoliidae	Mimosaceae	<i>Acacia terminalis</i>	Sunshine Wattle
Magnoliidae	Mimosaceae	<i>Acacia ulicifolia</i>	Prickly Moses

Class / Subclass	Family	Scientific Name	Common Name
Magnoliidae	Monimiaceae	<i>Wilkiea heugeliana</i>	Wilkiea
Magnoliidae	Moraceae	<i>Ficus coronata</i>	Sandpaper Fig
Magnoliidae	Moraceae	<i>Ficus rubiginosa</i>	Port Jackson Fig
Magnoliidae	Moraceae	<i>Ficus watkinsiana</i>	Strangler Fig
Magnoliidae	Moraceae	<i>Streblus brunonianus</i>	Whalebone Tree
Magnoliidae	Myrsinaceae	<i>Rapanea howittiana</i>	Brush Muttonwood
Magnoliidae	Myrsinaceae	<i>Rapanea variabilis</i>	Muttonwood
Magnoliidae	Myrtaceae	<i>Acmena smithii</i>	Lillypilly
Magnoliidae	Myrtaceae	<i>Angophora costata</i>	Smooth-barked Apple
Magnoliidae	Myrtaceae	<i>Angophora floribunda</i>	Rough-barked Apple
Magnoliidae	Myrtaceae	<i>Babingtonia similis</i>	-
Magnoliidae	Myrtaceae	<i>Backhousia myrtifolia</i>	Grey Myrtle
Magnoliidae	Myrtaceae	<i>Callistemon linearis</i>	Narrow-leaved Bottlebrush
Magnoliidae	Myrtaceae	<i>Callistemon salignus</i>	Willow Bottlebrush
Magnoliidae	Myrtaceae	<i>Corymbia gummifera</i>	Red Bloodwood
Magnoliidae	Myrtaceae	<i>Corymbia maculata</i>	Spotted Gum
Magnoliidae	Myrtaceae	<i>Eucalyptus acmenoides</i>	White Mahogany
Magnoliidae	Myrtaceae	<b><i>Eucalyptus fergusonii</i> subsp. <i>dorsiventralis</i> (R)</b>	
Magnoliidae	Myrtaceae	<i>Eucalyptus fibrosa</i>	Broad Leaved Ironbark
Magnoliidae	Myrtaceae	<i>Eucalyptus globoidea</i>	White Stringybark
Magnoliidae	Myrtaceae	<i>Eucalyptus grandis</i>	Flooded gum
Magnoliidae	Myrtaceae	<i>Eucalyptus paniculata</i> subsp. <i>paniculata</i>	Grey Ironbark
Magnoliidae	Myrtaceae	<i>Eucalyptus piperita</i> subsp. <i>piperita</i>	Sydney Peppermint
Magnoliidae	Myrtaceae	<i>Eucalyptus propinqua</i> var. <i>propinqua</i>	Small Fruited Grey Gum
Magnoliidae	Myrtaceae	<i>Eucalyptus punctata</i>	Grey Gum
Magnoliidae	Myrtaceae	<i>Eucalyptus resinifera</i> subsp. <i>resinifera</i>	Red Mahogany
Magnoliidae	Myrtaceae	<i>Eucalyptus robusta</i>	Swamp Mahogany
Magnoliidae	Myrtaceae	<i>Eucalyptus siderophloia</i>	Northern Grey Ironbark
Magnoliidae	Myrtaceae	<i>Eucalyptus tereticornis</i>	Forest Red Gum
Magnoliidae	Myrtaceae	<i>Eucalyptus umbra</i> subsp. <i>umbra</i>	Broad-leaved White Mahogany

<b>Class / Subclass</b>	<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Magnoliidae	Myrtaceae	<i>Kunzea ambigua</i>	Tick Bush
Magnoliidae	Myrtaceae	<i>Leptospermum parvifolium</i>	Small-leaved Tea-tree
Magnoliidae	Myrtaceae	<i>Leptospermum polygalifolium</i> subsp. <i>cismontanum</i>	Lemon Scented Tea-tree
Magnoliidae	Myrtaceae	<i>Leptospermum polygalifolium</i> subsp. <i>polygalifolium</i>	Lemon Scented Tea-tree
Magnoliidae	Myrtaceae	<i>Leptospermum trinervium</i>	Flaky-barked Tea-tree
Magnoliidae	Myrtaceae	<i>Melaleuca lineariifolia</i>	Snow in Summer
Magnoliidae	Myrtaceae	<i>Melaleuca nodosa</i>	Ball Honey Myrtle
Magnoliidae	Myrtaceae	<i>Melaleuca stypheloides</i>	Prickly-leaved Tea Tree
Magnoliidae	Myrtaceae	<i>Rhodamnia rubescens</i>	Brush Turpentine
Magnoliidae	Myrtaceae	<i>Syncarpia glomulifera</i>	Turpentine
Magnoliidae	Ochnaceae	<i>Ochna serrulata</i> *	Mickey Mouse Plant
Magnoliidae	Oleaceae	<i>Ligustrum sinense</i> *	Small-leaved Privet
Magnoliidae	Oleaceae	<i>Notelaea longifolia</i>	Mock Olive
Magnoliidae	Oleaceae	<i>Notelaea ovata</i>	Mock Olive
Magnoliidae	Onagraceae	<i>Ludwigia peploides</i> subsp. <i>montevidensis</i>	Water Primrose
Magnoliidae	Oxalidaceae	<i>Oxalis latifolia</i> *	Pink Fishtail
Magnoliidae	Oxalidaceae	<i>Oxalis perennans</i>	-
Magnoliidae	Passifloraceae	<i>Passiflora herbertiana</i>	Native Passionfruit
Magnoliidae	Piperaceae	<i>Piper novae-hollandiae</i>	Pepper Vine
Magnoliidae	Pittosporaceae	<i>Billardiera scandens</i> var. <i>scandens</i>	Apple Dumplings
Magnoliidae	Pittosporaceae	<i>Bursaria spinosa</i> var. <i>spinosa</i>	Blackthorn
Magnoliidae	Pittosporaceae	<i>Citriobatus pauciflorus</i>	Orange Thorn
Magnoliidae	Pittosporaceae	<i>Pittosporum revolutum</i>	Yellow Pittosporum
Magnoliidae	Pittosporaceae	<i>Pittosporum undulatum</i>	Sweet Pittosporum
Magnoliidae	Plantaginaceae	<i>Plantago debilis</i>	Slender Plantain
Magnoliidae	Plantaginaceae	<i>Plantago lanceolata</i> *	Ribwort
Magnoliidae	Polygalaceae	<i>Comesperma sphaerocarpum</i>	-
Magnoliidae	Polygonaceae	<i>Persicaria decipiens</i>	Slender Knotweed
Magnoliidae	Polygonaceae	<i>Persicaria lapathifolia</i>	Pale Knotweed

<b>Class / Subclass</b>	<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Magnoliidae	Primulaceae	<i>Anagallis arvensis</i> *	Scarlet Pimpernel
Magnoliidae	Proteaceae	<i>Banksia spinulosa</i>	Hairpin Banksia
Magnoliidae	Proteaceae	<i>Banksia spinulosa</i> var. <i>collina</i>	Hairpin Banksia
Magnoliidae	Proteaceae	<i>Grevillea robusta</i>	Silky Oak
Magnoliidae	Proteaceae	<i>Hakea sericea</i>	Needlebush
Magnoliidae	Proteaceae	<i>Persoonia levis</i>	Broad-leaved Geebung
Magnoliidae	Proteaceae	<i>Persoonia linearis</i>	Narrow-leaved Geebung
Magnoliidae	Ranunculaceae	<i>Clematis aristata</i>	Old Man's Beard
Magnoliidae	Rhamnaceae	<i>Alphitonia excelsa</i>	Red Ash
Magnoliidae	Rosaceae	<i>Prunus persica</i> *	Peach Tree
Magnoliidae	Rosaceae	<i>Rubus moluccanus</i> var. <i>trilobus</i>	Broad-leaf Bramble
Magnoliidae	Rosaceae	<i>Rubus parvifolius</i>	Native Raspberry
Magnoliidae	Rosaceae	<i>Rubus ulmifolius</i> *	Blackberry
Magnoliidae	Rubiaceae	<i>Galium binifolium</i>	-
Magnoliidae	Rubiaceae	<i>Galium proquinquum</i>	Bedstraw
Magnoliidae	Rubiaceae	<i>Morinda jasminoides</i>	-
Magnoliidae	Rubiaceae	<i>Opercularia aspera</i>	Common Stinkweed
Magnoliidae	Rubiaceae	<i>Opercularia diphylla</i>	-
Magnoliidae	Rubiaceae	<i>Pomax umbellata</i>	Pomax
Magnoliidae	Rubiaceae	<i>Richardia brasiliensis</i> *	White Eye
Magnoliidae	Rutaceae	<i>Acronychia oblongifolia</i>	Common Acronychia
Magnoliidae	Rutaceae	<i>Boronia ledifolia</i>	Sydney Boronia
Magnoliidae	Rutaceae	<i>Boronia polygalifolia</i>	Milkwort Boronia
Magnoliidae	Rutaceae	<i>Correa reflexa</i>	Native Fuschia
Magnoliidae	Rutaceae	<i>Melicope micrococca</i>	White Euodia
Magnoliidae	Santalaceae	<i>Exocarpos strictus</i>	Pale Ballart
Magnoliidae	Sapindaceae	<i>Dodonaea triquetra</i>	Hop Bush
Magnoliidae	Sapindaceae	<i>Guioa semiglauc</i>	Guioa
Magnoliidae	Scrophulariaceae	<i>Veronica persica</i> *	Creeping Speedwell
Magnoliidae	Scrophulariaceae	<i>Veronica plebia</i>	Creeping Speedwell
Magnoliidae	Solanaceae	<i>Physalis peruviana</i> *	Cape Gooseberry
Magnoliidae	Solanaceae	<i>Solanum mauritianum</i> *	Wild Tobacco
Magnoliidae	Solanaceae	<i>Solanum nigrum</i> *	Black Nightshade
Magnoliidae	Solanaceae	<i>Solanum prinophyllum</i>	Forest Nightshade

Class / Subclass	Family	Scientific Name	Common Name
Magnoliidae	Solanaceae	<i>Solanum pungetium</i>	Eastern Nightshade
Magnoliidae	Solanaceae	<i>Solanum stelligerum</i>	Devil's Needles
Magnoliidae	Sterculiaceae	<i>Commersonia fraseri</i>	Brush Kurrajong
Magnoliidae	Stylidiaceae	<i>Stylidium graminifolium</i>	Trigger Plant
Magnoliidae	Tremandraceae	<b><i>Tetradthea juncea (V,V)</i></b>	Black-eyed Susan
Magnoliidae	Verbenaceae	<i>Clerodendrum tomentosum</i>	Hairy Clerodendrum
Magnoliidae	Verbenaceae	<i>Lantana camara*</i>	Lantana
Magnoliidae	Verbenaceae	<i>Verbena bonariensis*</i>	Purpletop
Magnoliidae	Verbenaceae	<i>Verbena rigida*</i>	Veined Verbena
Magnoliidae	Violaceae	<i>Hybanthus stellarioides</i>	Spade Flower
Magnoliidae	Violaceae	<i>Viola betonicifolia</i>	-
Magnoliidae	Violaceae	<i>Viola hederacea</i>	Ivy-leaved Violet
Magnoliidae	Vitaceae	<i>Cayratia clematidea</i>	Slender Grape
Magnoliidae	Vitaceae	<i>Cissus antarctica</i>	Native Grape
Magnoliidae	Vitaceae	<i>Cissus hypoglauca</i>	Water Vine
Magnoliidae	Winteraceae	<i>Tasmannia insipida</i>	-
Liliidae	Anthericaceae	<i>Arthropodium milleflorum</i>	Pale Vanilla Lily
Liliidae	Anthericaceae	<i>Arthropodium minus</i>	Small Vanilla Lily
Liliidae	Anthericaceae	<i>Caesia parviflora</i> var. <i>parviflora</i>	Pale Grass Lily
Liliidae	Anthericaceae	<i>Thysanotus tuberosus</i>	Fringed Lily
Liliidae	Anthericaceae	<i>Tricoryne elatior</i>	Yellow Rush Lily
Liliidae	Araceae	<i>Gymnostachys anceps</i>	Settlers Flax
Liliidae	Asteliaceae	<i>Cordyline stricta</i>	Narrow-leaf Palm Lily
Liliidae	Cyperaceae	<i>Baumea articulata</i>	Jointed Twig-Rush
Liliidae	Cyperaceae	<i>Carex appressa</i>	Tall Sedge
Liliidae	Cyperaceae	<i>Carex inversa</i>	Knob Sedge
Liliidae	Cyperaceae	<i>Carex longebrachiata</i>	Bergalia Tussock
Liliidae	Cyperaceae	<i>Carex sp.</i>	-
Liliidae	Cyperaceae	<i>Cyperus brevifolius*</i>	Mullumbimby Couch
Liliidae	Cyperaceae	<i>Cyperus polystachyos</i>	-
Liliidae	Cyperaceae	<i>Eleocharis sphacelata</i>	Tall Spike-rush
Liliidae	Cyperaceae	<i>Gahnia clarkei</i>	Tall Saw-sedge
Liliidae	Cyperaceae	<i>Gahnia melanocarpa</i>	Black-fruit Saw-sedge
Liliidae	Cyperaceae	<i>Gahnia radula</i>	-

<b>Class / Subclass</b>	<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Liliidae	Cyperaceae	<i>Lepidosperma laterale</i>	Variable Sword-sedge
Liliidae	Cyperaceae	<i>Ptilothrix deusta</i>	-
Liliidae	Cyperaceae	<i>Schoenus melanostachys</i>	Black Bog Rush
Liliidae	Dioscoreaceae	<i>Dioscorea transversa</i>	Native Yam
Liliidae	Doryanthaceae	<i>Doryanthes excelsa</i>	Gynea Lily
Liliidae	Hypoxidaceae	<i>Hypoxis hygrometrica</i>	Golden Star
Liliidae	Iridaceae	<i>Libertia paniculata</i>	-
Liliidae	Juncaceae	<i>Juncus cognatus*</i>	-
Liliidae	Juncaceae	<i>Juncus mollis</i>	-
Liliidae	Juncaceae	<i>Juncus pallidus</i>	-
Liliidae	Juncaceae	<i>Juncus usitatus</i>	Common Rush
Liliidae	Juncaginaceae	<i>Triglochin microtuberosum</i>	Water Ribbons
Liliidae	Lomandraceae	<i>Lomandra cylindrica</i>	-
Liliidae	Lomandraceae	<i>Lomandra filiformis</i> subsp. <i>coriacea</i>	Wattle Mat-rush
Liliidae	Lomandraceae	<i>Lomandra filiformis</i> subsp. <i>filiformis</i>	Wattle Mat-rush
Liliidae	Lomandraceae	<i>Lomandra glauca</i> subsp. <i>glauca</i>	-
Liliidae	Lomandraceae	<i>Lomandra longifolia</i>	Spiky-headed Mat-rush
Liliidae	Lomandraceae	<i>Lomandra multiflora</i>	Many-flowered Mat-rush
Liliidae	Lomandraceae	<i>Lomandra obliqua</i>	Twisted Mat-rush
Liliidae	Luzuriagaceae	<i>Eustrephus latifolius</i>	Wombat Berry
Liliidae	Luzuriagaceae	<i>Geitonoplesium cymosum</i>	Scrambling Lily
Liliidae	Orchidaceae	<i>Acianthus fornicatus</i>	Pixie Caps
Liliidae	Orchidaceae	<i>Caladenia catenata</i>	White Finger Orchid
Liliidae	Orchidaceae	<i>Caladenia carnea</i>	Pink Fingers
Liliidae	Orchidaceae	<i>Calochilus campestris</i>	Copper Beard Orchid
Liliidae	Orchidaceae	<i>Calochilus robertsonii</i>	Purple Beard Orchid
Liliidae	Orchidaceae	<i>Glossodia major</i>	Wax Lip Orchid
Liliidae	Orchidaceae	<i>Pterostylis baptistii</i>	King Greenhood
Liliidae	Orchidaceae	<i>Pterostylis curta</i>	Blunt Greenhood
Liliidae	Orchidaceae	<i>Pterostylis longifolia</i>	-
Liliidae	Orchidaceae	<i>Pterostylis erecta</i>	Upright Maroonhood
Liliidae	Orchidaceae	<i>Pterostylis nutans</i>	Nodding Greenhood

<b>Class / Subclass</b>	<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Liliidae	Orchidaceae	<i>Pterostylis longifolia</i>	-
Liliidae	Orchidaceae	<i>Pterostylis obtusa</i>	Blunt-tongue Greenhood
Liliidae	Phormiaceae	<i>Dianella caerulea</i> var. <i>producta</i>	Blue Flax Lily
Liliidae	Phormiaceae	<i>Dianella longifolia</i>	-
Liliidae	Phormiaceae	<i>Dianella revoluta</i> var. <i>revoluta</i>	Spreading Flax Lily
Liliidae	Poaceae	<i>Andropogon virginicus</i> *	Whisky Grass
Liliidae	Poaceae	<i>Aristida calycina</i>	Wire Grass
Liliidae	Poaceae	<i>Aristida ramosa</i>	Wire Grass
Liliidae	Poaceae	<i>Aristida vagans</i>	Three-awn Speargrass
Liliidae	Poaceae	<i>Austrodanthonia linkii</i> var. <i>fulva</i>	Wallaby Grass
Liliidae	Poaceae	<i>Austrodanthonia tenuior</i>	Wallaby Grass
Liliidae	Poaceae	<i>Avena fatua</i> *	Wild Oats
Liliidae	Poaceae	<i>Axonopus affinis</i> *	Narrow-leaved Carpet Grass
Liliidae	Poaceae	<i>Bothriochloa decipiens</i>	Redleg Grass
Liliidae	Poaceae	<i>Bothriochloa macra</i>	-
Liliidae	Poaceae	<i>Briza maxima</i> *	Quaking Grass
Liliidae	Poaceae	<i>Briza minor</i> *	Shivery Grass
Liliidae	Poaceae	<i>Briza subaristata</i> *	-
Liliidae	Poaceae	<i>Bromus molliformis</i> *	Soft Brome
Liliidae	Poaceae	<i>Chloris gayana</i> *	Rhodes Grass
Liliidae	Poaceae	<i>Cortaderia selloana</i> *	Pampas Grass
Liliidae	Poaceae	<i>Cymbopogon refractus</i>	Barbwire Grass
Liliidae	Poaceae	<i>Cynodon dactylon</i>	Common Couch
Liliidae	Poaceae	<i>Dichelachne micrantha</i>	Short-hair Plume Grass
Liliidae	Poaceae	<i>Digitaria parviflora</i>	Small-flowered Finger Grass
Liliidae	Poaceae	<i>Echinopogon caespitosus</i> var. <i>caespitosus</i>	Tufted Hedgehog Grass
Liliidae	Poaceae	<i>Echinopogon ovatus</i>	Forest Hedgehog Grass
Liliidae	Poaceae	<i>Ehrharta erecta</i> *	Panic Veldtgrass
Liliidae	Poaceae	<i>Entolasia marginata</i>	Bordered Panic
Liliidae	Poaceae	<i>Entolasia stricta</i>	Wiry Panic
Liliidae	Poaceae	<i>Eragrostis brownii</i>	Brown's Lovegrass
Liliidae	Poaceae	<i>Eragrostis curvula</i> *	African Lovegrass

<b>Class / Subclass</b>	<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Liliidae	Poaceae	<i>Eragrostis tenuifolia</i>	Elastic Grass
Liliidae	Poaceae	<i>Imperata cylindrica</i> var. <i>major</i>	Blady Grass
Liliidae	Poaceae	<i>Joycea pallida</i>	Silvertop Wallaby grass
Liliidae	Poaceae	<i>Melinus repens</i> *	Red Natal Grass
Liliidae	Poaceae	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Rice Grass
Liliidae	Poaceae	<i>Oplismenus aemulus</i>	Basket Grass
Liliidae	Poaceae	<i>Oplismenus imbecillis</i>	-
Liliidae	Poaceae	<i>Panicum maximum</i> *	Guinea Grass
Liliidae	Poaceae	<i>Panicum simile</i>	Two Colour Panic
Liliidae	Poaceae	<i>Paspalidium distans</i>	-
Liliidae	Poaceae	<i>Paspalum dilatatum</i> *	Paspalum
Liliidae	Poaceae	<i>Paspalum distichum</i>	Water Couch
Liliidae	Poaceae	<i>Pennisetum clandestinum</i> *	Kikuyu
Liliidae	Poaceae	<i>Phragmites australis</i>	Common Reed
Liliidae	Poaceae	<i>Poa affinis</i>	-
Liliidae	Poaceae	<i>Poa labillardieri</i> var. <i>labillardieri</i>	Tussock Grass
Liliidae	Poaceae	<i>Poa sieberiana</i>	Tussock Grass
Liliidae	Poaceae	<i>Setaria gracilis</i> *	Slender Pigeon Grass
Liliidae	Poaceae	<i>Setaria pumila</i> *	Pale Pigeon Grass
Liliidae	Poaceae	<i>Sporobolus africanus</i> *	Parramatta Grass
Liliidae	Poaceae	<i>Themeda australis</i>	Kangaroo Grass
Liliidae	Smilacaceae	<i>Smilax australis</i>	Lawyer Vine
Liliidae	Smilacaceae	<i>Smilax glycyphylla</i>	Sarsaparilla
Liliidae	Typhaceae	<i>Typha australis</i>	Cumbungi
Liliidae	Typhaceae	<i>Typha orientalis</i>	Cumbungi
Liliidae	Xanthorrhoeaceae	<i>Xanthorrhoea latifolia</i>	-

Table D-2: Flora Quadrat Data for Link Road – Minmi

Scientific Name	Q1	Q2	Q3	Q4	Q5	Q6	Q6a	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q17a	Q18	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52			
<i>Acacia binervata</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Acacia falcata</i>	0	1	2	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	
<i>Acacia fimbriata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	
<i>Acacia floribunda</i>	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	2	0	3	0	0	0	0	0	0	0	0	1	0	0	0	2	0	
<i>Acacia implexa</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
<i>Acacia irrorata</i> subsp. <i>irrorata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	2		
<i>Acacia longifolia</i> var. <i>longifolia</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
<i>Acacia maidenii</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Acacia myrtifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Acacia suaveolens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia ulicifolia</i>	2	2	2	0	1	2	3	0	1	3	0	0	1	1	0	0	1	0	0	0	0	0	0	1	2	0	2	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	3	
<i>Acianthus fornicatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	2	0	0	1		
<i>Acmena smithii</i>	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Acronychia oblongifolia</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Adiantum aethiopicum</i>	0	1	0	0	0	0	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	5	0	0	0	0	0	0	0	0	0	0	2	3	0	2	0	
<i>Adiantum formosum</i>	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<i>Ageratina adenophorum</i> *	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	1	0	1	0		
<i>Allocasuarina littoralis</i>	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Allocasuarina torulosa</i>	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	1	3	3	0	2	2	2	0	3	0	0	0	0	0	0	3	0	0	2	0		
<i>Alphitonia excelsa</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Anagallis arvensis</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Andropogon virginicus</i> *	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Angophora costata</i>	0	3	0	0	0	0	0	0	0	0	4	3	2	3	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	2	2	3	3	0	0	0	0	0	0	0	
<i>Angophora floribunda</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Aristida vagans</i>	4	0	1	0	0	1	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	1	2	3	3	0	0	0	0	0	0	0	0	1	2	0	1	1	0	0	0	0	0	
<i>Arthropodium milleflorum</i>	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
<i>Arthropodium minus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	1	0	0	0	0	0	0	0		
<i>Austrodanthonia tenuior</i>	2	2	3	2	1	1	4	0	0	0	2	3	1	0	0	0	0	3	0	0	0	0	2	0	0	0	0	0	0	3	0	0	3	1	0	0	0	0	0	0	0	0		
<i>Babingtonia similis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
<i>Backhousia myrtifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Banksia spinulosa</i> var. <i>collina</i>	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0		
<i>Bidens pilosa</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
<i>Billardiera scandens</i> var. <i>scandens</i>	0	2	2	0	1	1	2	0	0	0	2	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0		
<i>Blechnum nudum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Boronia polygalifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0		
<i>Bothriochloa decipiens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Breynia oblongifolia</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	2	1	1	0	3	1	0	0	1	0	0	0	0	0	0	0		

Scientific Name	Q1	Q2	Q3	Q4	Q5	Q6	Q6a	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q17a	Q18	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52					
<i>Briza minor</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Briza subaristata</i> *	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Brunoniella australis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Bursaria spinosa</i> var. <i>spinosa</i>	2	2	1	0	0	2	0	0	0	3	0	0	1	0	0	0	0	0	0	0	2	1	1	3	3	0	0	0	0	3	0	0	1	0	0	0	0	0	0	1	0	0	0			
<i>Caladenia catenata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Callistemon linearis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0			
<i>Callistemon salignus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Calochlaena dubia</i>	0	0	0	1	0	0	0	2	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Carex appressa</i>	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
<i>Carex inversa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Carex longebrachiata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Cassine australis</i> var. <i>australis</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cassytha glabella</i> forma <i>glabella</i>	2	0	1	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	
<i>Cassytha pubescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cayratia clematidea</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	2	2	0	2	3	0	0	0	1	0	3	0	2	0	0	0	0		
<i>Centella asiatica</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	3	0	0	1	2	0	0	0	0	0	4	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0		
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	1	0	1	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	2	1	0	0			
<i>Cinnamomum camphora</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cissus antarctica</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cissus hypoglauca</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Claoxylon australe</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Clematis aristata</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0	2	0	1	1	0	0	0	
<i>Clerodendrum tomentosum</i>	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	
<i>Commelina cyanea</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Commersonia fraseri</i>	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Conyza bonariensis</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cordyline stricta</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Correa reflexa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corymbia gummifera</i>	0	3	0	0	0	0	0	0	0	0	3	0	1	2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	1	2	2	2	0	0	0	0	0	0	0	0	0	0	0
<i>Corymbia maculata</i>	4	0	3	2	2	2	3	0	3	4	0	0	2	0	2	3	5	3	2	1	0	4	3	4	2	1	3	4	4	4	3	3	2	3	3	4	3	2	3	2	3	2	3	0	0	
<i>Cryptocarya glaucescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cryptocarya microneura</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cymbopogon refractus</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	2	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cynodon dactylon</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus brevifolius</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Daviesia squarrosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0
<i>Daviesia ulicifolia</i>	3	0	2	0	0	0	3	0	3	1	2	2	2	0	0	0	0	2	0	0	0	3	2	3	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
<i>Desmodium gunii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	



Scientific Name	Q1	Q2	Q3	Q4	Q5	Q6	Q6a	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q17a	Q18	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52				
<i>Ficus rubiginosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Ficus watkinsiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Gahnia clarkei</i>	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gahnia melanocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galium binifolium</i>	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
<i>Galium proquinquum</i>	2	0	0	0	0	1	2	0	0	2	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<i>Geitonoplesium cymosum</i>	0	0	0	1	0	0	0	2	0	0	0	0	1	0	1	0	0	0	0	2	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Geranium homeanum</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	
<i>Glochidion ferdinandii</i>	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<i>Glycine clandestina</i>	2	2	1	0	0	1	0	0	0	2	0	0	0	2	1	0	1	0	1	1	0	0	1	2	0	0	3	2	2	2	2	2	2	2	1	1	1	0	0	1	1	2			
<i>Glycine tabacina</i>	0	2	1	0	0	1	0	0	0	0	0	0	0	0	1	1	2	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Gnaphalium americanum*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Gompholobium grandiflorum</i>	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Gonocarpus tetragynus</i>	2	0	2	0	0	1	2	0	0	0	2	2	2	0	0	0	0	0	1	0	0	0	1	0	1	0	2	2	2	1	0	0	1	2	1	0	0	0	0	0	0	0	0	3	
<i>Goodenia heterophylla subsp. heterophylla</i>	2	2	0	0	0	4	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	3	0	0	0	1	0	0	2	0	0	2	2	0	0	0	0	1	0	0	2			
<i>Guioa semiglauca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Gymnostachys anceps</i>	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	1	2	3	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	
<i>Hakea sericea</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Hardenbergia violacea</i>	2	0	0	0	0	2	2	0	1	0	0	0	0	1	1	1	1	0	1	0	0	0	2	2	1	0	3	2	0	0	1	1	0	1	1	1	0	1	1	1	1	1	2		
<i>Hibbertia aspera</i>	0	1	0	0	0	1	3	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	4	1	3	0	0	0	1	3	0	1	0	3	0	0	0	0	0		
<i>Hibbertia empetrifolia subsp. uncinata</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Hibbertia pedunculata</i>	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	
<i>Hibbertia scandens</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2	0	0	0		
<i>Hibiscus heterophyllus</i>	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Hydrocotyle bonariensis*</i>	0	0	0	1	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Hydrocotyle peduncularis</i>	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	2	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0		
<i>Hydrocotyle tripartita</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Hypochaeris radicata*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Hypoxis hygrometrica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Imperata cylindrica var. major</i>	2	4	1	0	1	0	2	0	1	0	4	1	2	2	0	3	2	2	2	0	0	0	1	2	0	0	0	3	2	2	3	3	0	1	3	3	1	3	3	2	0				
<i>Indigofera australis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0		
<i>Joycea pallida</i>	3	2	3	0	2	2	2	0	1	0	0	0	2	1	0	0	4	4	2	3	0	0	5	3	0	0	0	0	0	5	0	0	2	3	1	0	0	0	0	0	0	0	0		
<i>Juncus usitatus</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Kennedia rubicunda</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Lagenifera stipitata</i>	0	0	0	0	0	1	0	0	0	2	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	0	1	0	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
<i>Lantana camara*</i>	1	1	1	5	0	0	0	1	1	2	0	0	0	0	5	0	0	3	1	6	4	6	1	2	3	6	0	0	0	0	0	0	0	0	0	0	3	4	4	2	3	0			
<i>Lepidosperma laterale</i>	0	3	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0		
<i>Leptospermum polygalifolium subsp.</i>	0	3	0	0	0	0	0	0	0	0	3	4	3	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0		



Scientific Name	Q1	Q2	Q3	Q4	Q5	Q6	Q6a	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q17a	Q18	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52			
<i>Passiflora herbertiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0		
<i>Pellaea falcata</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<i>Pellaea paradoxa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<i>Pennisetum clandestinum*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Persoonia linearis</i>	0	1	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0		
<i>Phyllanthus hirtellus</i>	2	2	0	0	0	0	2	0	1	0	2	2	0	0	0	2	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
<i>Piper novae-hollandiae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pittosporum multiflorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pittosporum revolutum</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	2	0	0	0	0	0	0	0	0	1	1	0	0	
<i>Pittosporum undulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
<i>Plantago debilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plantago lanceolata*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus parviflorus</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	3	0	
<i>Poa affinis</i>	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	2	0	0	0	0	0	0	0	0	0	0	4	2	5	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
<i>Poa labillardieri</i> var. <i>labillardieri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
<i>Polymeria calycina</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	1	0	0	2	0	2	1	0	1	1	0	1	0	0	0	0	0	0	1	0	0		
<i>Polyscias sambucifolia</i>	0	2	0	0	0	0	2	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	2	0	0	1	1	0	1	0	0	0	0	0	
<i>Poranthera microphylla</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pratia purpurascens</i>	2	2	2	0	1	1	0	0	2	3	2	2	2	0	0	3	0	3	1	1	2	3	1	3	3	0	4	2	2	2	3	2	1	1	0	2	0	0	1	0	2	0	2	
<i>Prostanthera incisa</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pseuderanthemum variabile</i>	2	0	1	0	1	1	2	0	0	0	2	0	0	1	0	2	2	1	0	0	0	0	2	3	0	3	2	1	0	1	2	1	1	0	1	0	3	1	1	0	2	0	2	
<i>Pteridium esculentum</i>	0	3	0	0	0	0	2	0	1	0	3	1	0	0	0	0	0	0	0	3	0	0	0	1	3	0	0	3	4	0	4	4	0	1	0	0	0	4	0	3	0	0		
<i>Pterostylis nutans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Ptilothrix deusta</i>	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	
<i>Pultenaea daphnoides</i>	0	2	0	0	0	2	0	0	2	0	0	2	1	1	0	1	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	
<i>Pultenaea paleacea</i> var. <i>paleacea</i>	0	0	0	0	0	0	0	0	0	0	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pultenaea retusa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pultenaea villosa</i>	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	3	
<i>Rapanea howittiana</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	
<i>Rapanea variabilis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	2	0	
<i>Rhodamnia rubescens</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3	0	2	2	0	0	0	0	0	0	0	0	0	3	0	0	0	0	
<i>Rubus moluccanus</i> var. <i>trilobus</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
<i>Rubus parvifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<i>Rubus ulmifolius*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sarcopetalum harveyanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scutellaria mollis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio linearifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio madagascariensis*</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senna pendula</i> var.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	

Scientific Name	Q1	Q2	Q3	Q4	Q5	Q6	Q6a	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q17a	Q18	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52										
<i>glabrata*</i>																																																			
<i>Sida rhombifolia*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0						
<i>Sigesbeckia orientalis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	2	2	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0						
<i>Smilax australis</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0						
<i>Smilax glycyphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Solanum prinophyllum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Solanum pungetium</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0					
<i>Solanum stelligerum</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0					
<i>Sporobolus africanus*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Stellaria flaccida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0					
<i>Stephania japonica</i> var. <i>discolor</i>	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0					
<i>Streblus brunonianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Stylidium graminifolium</i>	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Syncarpia glomulifera</i>	0	0	0	2	0	0	0	3	1	0	0	0	0	0	2	1	0	0	1	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	3	3	0	3	0	0	0	0				
<i>Synoum glandulosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0				
<i>Tasmannia insipida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Themeda australis</i>	3	0	4	0	4	0	3	0	4	0	4	0	4	5	0	4	2	1	0	0	0	5	3	0	2	0	0	1	2	3	4	5	5	5	5	4	4	0	5	4	3	5	0	0	0	0	0				
<i>Thysanotus tuberosus</i>	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Tradescantia fluminensis*</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Tricoryne elatior</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Trifolium repens*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Tylophora barbata</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Verbena rigida*</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Vernonia cinerea</i> var. <i>cinerea</i>	0	0	1	0	0	1	0	0	0	3	0	0	0	0	0	0	0	1	1	0	2	1	2	0	0	0	2	0	1	1	2	1	1	2	1	1	2	1	1	1	1	1	0	0	0	0	0	0	0		
<i>Veronica plebia</i>	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
<i>Viola betonicifolia</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Viola hederacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Wahlenbergia gracilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Wilkiea heugeliana</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Xanthorrhoea latifolia</i> subsp. <i>latifolia</i>	0	0	0	0	0	0	0	0	0	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

\*\* PLEASE NOTE THE EXOTICS HAVE BEEN REMOVED FOR STATISTICAL ANALYSES

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## Appendix 4

### Fauna Species List

# EXPECTED FAUNA SPECIES LIST

Below is a list of fauna species that could be *reasonably* expected to be found within the study area at some occurrence. Such an approach has been taken given the unlikelihood to record *all* potentially occurring species within an area during formal fauna surveys (due to seasonality, climatic limitations, crypticism etc).

Family sequencing and taxonomy follow for each fauna class:

Birds – Christidis and Boles (1994).

Herpetofauna - Cogger (1996).

Mammals - Strahan (ed) (1995) and Churchill (1998).

## KNOWN AND EXPECTED BIRD LIST

- Appendix Key:**
- ✓ = Species Detected
  - \* = Introduced species
  - (E) = Species listed under NSW TSC Act 1995 as Endangered.
  - (V) = Species listed under NSW TSC Act 1995 as Vulnerable.
  - (V\*) = Species listed under the Commonwealth EPBC Act 1999 as Vulnerable
  - (E\*) = Species listed under the Commonwealth EPBC Act 1999 as Endangered
  - (M\*) = Species listed under the Commonwealth EPBC Act as Migratory
- Species indicated in **BOLD** font are those threatened species known from within 10km of site (Atlas of NSW Wildlife 2010)
- Data Source:**
- 1 = Species recorded within the Wallsend Link Road South
  - 2 = Species recorded within the Wallsend Link Road North

Family Name	Scientific Name	Common Name	1	2
Megapodiidae (Mound Builders)	<i>Alectura lathamii</i>	Australian Brush-turkey		
Phasianidae (True Quails, Pheasants and Fowls)	<i>Coturnix ypsilophora</i>	Brown Quail		
Anseranatidae (Magpie Goose)	<b>Anseranas semipalmata</b>	<b>Magpie Goose (V)</b>		
Anatidae (Swans, Geese and Ducks)	<i>Dendrocygna arcuata</i>	Wandering Whistling-duck		
	<i>Anas castanea</i>	Chestnut Teal		
	<i>Anas gracilis</i>	Grey Teal		
	<i>Anas superciliosa</i>	Pacific Black Duck		✓
	<i>Aythya australis</i>	Hardhead		
	<i>Chenonetta jubata</i>	Australian Wood Duck		
	<b>Oxyura australis</b>	<b>Blue-billed Duck (V)</b>		
	<b>Stictonetta naevosa</b>	<b>Freckled Duck (V)</b>		

Family Name	Scientific Name	Common Name	1	2
Podicipedidae (Grebes)	<i>Tachybaptus novaehollandiae</i>	Australasian Grebe		
	<i>Podiceps cristatus</i>	Great Crested Grebe		
Anhingidae (Darters)	<i>Anhinga melanogaster</i>	Darter		
Phalacrocoracidae (Cormorants)	<i>Phalacrocorax carbo</i>	Great Cormorant		
	<i>Phalacrocorax melanoleucos</i>	Little Pied Cormorant		
	<i>Phalacrocorax sulcirostris</i>	Little Black Cormorant		✓
	<i>Phalacrocorax varius</i>	Pied Cormorant		
Pelecanide (Pelicans)	<i>Pelecanus conspicillatus</i>	Australian Pelican		
Podicipedidae (Grebes)	<i>Tachybaptus novaehollandiae</i>	Australasian Grebe		
Ardeidae (Herons, Bitterns and Egrets)	<i>Ardea alba</i>	Great Egret		
	<i>Ardea ibis</i>	Cattle Egret		
	<i>Ardea intermedia</i>	Intermediate Egret		
	<i>Ardea pacifica</i>	White-necked Heron		
	<b><i>Botaurus poiciloptilus</i></b>	<b>Australasian Bittern (V)</b>		
	<b><i>Ixobrychus flavicollis</i></b>	<b>Black Bittern (V)</b>		
	<i>Butorides striatus</i>	Striated Heron		
	<i>Egretta garzetta</i>	Little Egret		
	<i>Egretta novaehollandiae</i>	White-faced Heron		✓
	<i>Nycticorax caledonicus</i>	Nankeen Night Heron		
Threskiornithidae (Ibises and Spoonbills)	<i>Threskiornis molucca</i>	Australian White Ibis		✓
	<i>Threskiornis spinicollis</i>	Straw-necked Ibis		
Ciconiidae (Storks)	<b><i>Ephippiorhynchus asiaticus</i></b>	<b>Black-necked Stork (E)</b>		
Accipitridae (Hawks, Kites and Eagles)	<i>Accipiter fasciatus</i>	Brown Goshawk		✓
	<i>Accipiter cirrhocephalus</i>	Collared Sparrowhawk		
	<i>Accipiter novaehollandiae</i>	Grey Goshawk		✓
	<i>Aquila audax</i>	Wedge-tailed Eagle		
	<i>Aviceda subcristata</i>	Pacific Baza	✓	✓

Family Name	Scientific Name	Common Name	1	2
	<i>Circus approximans</i>	Swamp Harrier		
	<i>Circus assimilis</i>	Spotted Harrier		
	<i>Elanus axillaris</i>	Black-shouldered Kite		
	<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle		✓
	<i>Haliastur sphenurus</i>	Whistling Kite		
	<b><i>Hamirostra melanosternon</i></b>	<b>Black-breasted Buzzard (V)</b>		
	<i>Hieraaetus morphnoides</i>	Little Eagle		
	<b><i>Lophoictinia isura</i></b>	<b>Square-tailed Kite</b>		
	<b><i>Pandion haliaetus</i></b>	<b>Osprey (V)</b>		
Falconidae (Falcons)	<i>Falco berigora</i>	Brown Falcon		
	<i>Falco cenchroides</i>	Nankeen Kestrel		
	<i>Falco longipennis</i>	Australian Hobby		
Rallidae (Crakes, Rails and Gallinules)	<i>Fulica atra</i>	Eurasian Coot		
	<i>Gallinula philippensis</i>	Buff-banded Rail		
	<i>Gallinula tenebrosa</i>	Dusky Moorhen		
	<i>Porphyrio porphyrio</i>	Purple Swamphen		
	<i>Porzana fluminea</i>	Australian Spotted Crake		
	<i>Porzana pusilla</i>	Baillon's Crake		
	<i>Porzana tabuensis</i>	Spotless Crake		
	<i>Rallus pectoralis</i>	Lewin's Rail		
	<i>Gallinula philippensis</i>	Buff-banded Rail		
Turnicidae (Button-Quails)	<i>Turnix varia</i>	Painted Button-quail		✓
Rostratulidae (Painted Snipe)	<b><i>Rostratula benghalensis</i></b>	<b>Painted Snipe (V)</b>		
Jacaniidae (Jacanas)	<b><i>Irediparra gallinacea</i></b>	<b>Comb-crested Jacana (V)</b>		
Burhinidae (Stone-curlews)	<b><i>Burhinus grallarius</i></b>	<b>Bush Stone-curlew (E)</b>		
Charadriidae (Lapwings, Plovers and Dottrels)	<b><i>Charadrius mongolus</i></b>	<b>Lesser Sand Plover (M*, V)</b>		
	<i>Vanellus miles</i>	Masked Lapwing		✓
Haematopodidae (Oystercatchers)	<b><i>Haematopus longirostris</i></b>	<b>Pied Oystercatcher (V)</b>		
	<i>Vanellus miles</i>	Masked Lapwing		

Family Name	Scientific Name	Common Name	1	2
Laridae (Gulls and Terns)	<i>Larus novaehollandiae</i>	Silver Gull		
	<b><i>Sterna albifrons</i></b>	<b>Little Tern (E)</b>		
Columbidae (Pigeons and Doves)	* <i>Columba livia</i>	Rock Dove		
	<i>Chalcophaps indica</i>	Emerald Dove		
	<i>Geopelia humeralis</i>	Bar-shouldered Dove		✓
	<i>Geopelia striata</i>	Peaceful Dove		
	<i>Leucosarcia melanoleuca</i>	Wonga Pigeon		✓
	<i>Macropygia amboinensis</i>	Brown Cuckoo-Dove		✓
	<i>Lopholaimus antarcticus</i>	Topknot Pigeon		
	<i>Ocyphaps lophotes</i>	Crested Pigeon	✓	✓
	<i>Phaps chalcoptera</i>	Common Bronzewing		
	<i>Phaps elegans</i>	Brush Bronzewing		
	<b><i>Ptilinopus magnificus</i></b>	<b>Wompoo Fruit-dove (V)</b>		
	<b><i>Ptilinopus regina</i></b>	<b>Rose-crowned Fruit-Dove (V)</b>		
	<b>Superb Fruit-Dove</b>	<b><i>Ptilinopus superbus</i> (V)</b>		
	* <i>Streptopelia chinensis</i>	Spotted Turtle-Dove		✓
Cacatuidae (Cockatoos)	<i>Calyptrohynchus funereus</i>	Yellow-tailed Black-Cockatoo		✓
	<b><i>Calyptorhynchus lathami</i></b>	<b>Glossy Black-Cockatoo (V)</b>		
	<b><i>Callocephalon fimbriatum</i></b>	<b>Gang-Gang Cockatoo (V)</b>		
	<i>Cacatua roseicapilla</i>	Galah		✓
	<i>Cacatua tenuirostris</i>	Long-billed Corella		
	<i>Cacatua sanguinea</i>	Little Corella		
	<i>Cacatua galerita</i>	Sulphur-crested Cockatoo		
Psittacidae (Parrots)	<i>Alisterus scapularis</i>	Australian King Parrot		
	<i>Glossopsitta pusilla</i>	Little Lorikeet		✓
	<b><i>Lathamus discolor</i></b>	<b>Swift Parrot (E, E*)</b>		
	<b><i>Neophema pulchella</i></b>	<b>Turquoise Parrot (V)</b>		
	<i>Platycercus elegans</i>	Crimson Rosella		
	<i>Platycercus eximius</i>	Eastern Rosella		✓
	<i>Psephotus haematonotus</i>	Red-rumped Parrot		

Family Name	Scientific Name	Common Name	1	2
	<i>Trichoglossus chlorolepidotus</i>	Scaly-breasted Lorikeet		✓
	<i>Glossopsitta concina</i>	Musk Lorikeet		
	<i>Glossopsitta pusilla</i>	Little Lorikeet		
	<i>Trichoglossus haematodus</i>	Rainbow Lorikeet		✓
Cuculidae (Old World Cuckoos)	<i>Cuculus saturatus</i>	Oriental Cuckoo (M*)		
	<i>Cacomantis flabelliformis</i>	Fan-tailed Cuckoo		✓
	<i>Cacomantis variolosus</i>	Brush Cuckoo	✓	
	<i>Chrysococcyx basalis</i>	Horsfield's Bronze-Cuckoo		
	<i>Chrysococcyx lucidus</i>	Shining Bronze-Cuckoo		✓
	<i>Cuculus pallidus</i>	Pallid Cuckoo		
	<i>Eudynamys scolopacea</i>	Common Koel		✓
	<i>Scythrops novaehollandiae</i>	Channel-billed Cuckoo	✓	✓
Centropodidae (Coucals)	<i>Centropus phasianinus</i>	Pheasant Coucal		
Strigidae (Hawk Owls)	<b><i>Ninox strenua</i></b>	<b>Powerful Owl (V)</b>		
	<b><i>Ninox connivens</i></b>	<b>Barking Owl (V)</b>		
	<i>Ninox boobook</i>	Southern Boobook		✓
Tytonidae (Barn Owls)	<i>Tyto alba</i>	Barn Owl		
	<b><i>Tyto novaehollandiae</i></b>	<b>Masked Owl (V)</b>		
Podargidae (Frogmouths)	<i>Podargus strigoides</i>	Tawny Frogmouth		
Caprimulgidae (Nightjars)	<i>Eurostopodus mystacalis</i>	White-throated Nightjar		
Halcyonidae (Kingfishers and Kookaburras)	<i>Dacelo novaeguineae</i>	Laughing Kookaburra		✓
	<i>Todiramphus sanctus</i>	Sacred Kingfisher	✓	✓
Meropidae (Bee-eaters)	<i>Merops ornatus</i>	Rainbow Bee-eater (M*)		
Coraciidae (Typical Rollers)	<i>Eurystomus orientalis</i>	Dollarbird		✓
Climacteridae (Australo-Papuan Treecreepers)	<i>Cormobates leucophaeus</i>	White-throated Treecreeper	✓	✓
	<b><i>Climacteris picumnus</i></b>	<b>Brown Treecreeper (V)</b>		

Family Name	Scientific Name	Common Name	1	2
Maluridae (Fairy-Wrens and Emu-Wrens)	<i>Malurus cyaneus</i>	Superb Fairy-wren		✓
	<i>Malurus lamberti</i>	Variiegated Fairy-wren	✓	✓
Pardalotidae (Pardalotes, Scrubwrens, Thornbills)	<i>Pardalotus punctatus</i>	Spotted Pardalote	✓	✓
	<i>Paradalotus striatus</i>	Striated Pardalote		
	<i>Sericornis frontalis</i>	White-browed Scrubwren	✓	✓
	<i>Sericornis citreogularis</i>	Yellow-throated Scrubwren		
	<b><i>Chthonicola sagittata</i></b>	<b>Speckled Warbler (V)</b>		
	<i>Gerygone mouki</i>	Brown Gerygone	✓	✓
	<i>Gerygone olivacea</i>	White-throated Gerygone		
	<i>Acanthiza pusilla</i>	Brown Thornbill	✓	✓
	<i>Acanthiza reguloides</i>	Buff-rumped Thornbill		
	<i>Acanthiza chrysorrhoa</i>	Yellow-rumped Thornbill		
	<i>Acanthiza nana</i>	Yellow Thornbill	✓	✓
	<i>Acanthiza lineata</i>	Striated Thornbill	✓	✓
	<i>Hylacola pyrrhopygia</i>	Chestnut-rumped Heathwren		
Meliphagidae (Honeyeaters)	<i>Anthochaera carunculata</i>	Red Wattlebird		✓
	<i>Plectrhncha lanceolata</i>	Striped Honeyeater		
	<i>Anthochaera chrysoptera</i>	Brush Wattlebird		
	<i>Philemon corniculatus</i>	Noisy Friarbird	✓	✓
	<b><i>Xanthomyza phrygia</i></b>	<b>Regent Honeyeater (E, E*)</b>		
	<i>Manorina melanophrys</i>	Bell Miner	✓	✓
	<i>Manorina melanocephala</i>	Noisy Miner		
	<i>Meliphaga lewinii</i>	Lewin's Honeyeater	✓	✓
	<i>Lichenostomus chrysops</i>	Yellow-faced Honeyeater	✓	✓
	<i>Lichenostomus melanops</i>	Yellow-tufted Honeyeater		
	<i>Lichenostomus penicillatus</i>	White-plumed Honeyeater		
	<i>Melithreptus brevirostris</i>	Brown-headed Honeyeater	✓	✓
	<i>Melithreptus lunatus</i>	White-naped Honeyeater	✓	✓
	<b><i>Melithreptus gularis</i></b>	<b>Black-chinned Honeyeater (V)</b>		
	<i>Lichmera indistincta</i>	Brown Honeyeater		
	<i>Phylidonyris novaehollandiae</i>	New Holland Honeyeater		

Family Name	Scientific Name	Common Name	1	2
	<i>Phylidonyris nigra</i>	White-cheeked Honeyeater		
	<i>Acanthorhynchus tenuirostris</i>	Eastern Spinebill	✓	✓
	<i>Myzomela sanguinolenta</i>	Scarlet Honeyeater	✓	✓
Eopsaltriidae (Robins)	<i>Microeca fascinans</i>	Jacky Winter		
	<i>Petroica rosea</i>	Rose Robin		
	<i>Eopsaltria australis</i>	Eastern Yellow Robin	✓	✓
	<b><i>Melanodryas cucullata</i></b>	<b>Hooded Robin (V)</b>		
Pomatostomidae (Australo-Papuan Babblers)	<b><i>Pomatostomus temporalis</i></b>	<b>Grey-crowned Babbler (V)</b>		
Cinclosomidae (Quail-thrushes and allies)	<i>Psophodes olivaceus</i>	Eastern Whipbird	✓	✓
Neosittidae (Sittellas)	<i>Daphoenositta chrysoptera</i>	Varied Sittella		
Pachycephalidae (Whistlers, Shrike-tit, Shrike-thrushes)	<i>Falcunculus frontatus</i>	Crested Shrike-tit		
	<i>Pachycephala pectoralis</i>	Golden Whistler	✓	✓
	<i>Pachycephala rufiventris</i>	Rufous Whistler	✓	✓
	<i>Colluricincla harmonica</i>	Grey Shrike-thrush	✓	✓
Dicruridae (Monarchs, Fantails and Drongo)	<i>Monarcha melanopsis</i>	Black-faced Monarch	✓	✓
	<i>Monarcha trivirgatus</i>	Spectacled Monarch		
	<i>Myiagra cyanoleuca</i>	Satin Flycatcher		
	<i>Myiagra rubecula</i>	Leaden Flycatcher		✓
	<i>Myiagra inquieta</i>	Restless Flycatcher		
	<i>Grallina cyanoleuca</i>	Magpie-lark		✓
	<i>Rhipidura rufifrons</i>	Rufous Fantail	✓	✓
	<i>Rhipidura fuliginosa</i>	Grey Fantail	✓	✓
	<i>Rhipidura leucophrys</i>	Willie Wagtail		✓
	<i>Dicrurus bracteatus</i>	Spangled Drongo		
Campephagidae (Cuckoo-shrikes and Trillers)	<i>Coracina novaehollandiae</i>	Black-faced Cuckoo-shrike	✓	✓
	<i>Coracina tenuirostris</i>	Cicadabird	✓	✓
	<i>Lalage sueurii</i>	White-winged Triller		

Family Name	Scientific Name	Common Name	1	2
Oriolidae (Orioles and Figbird)	<i>Oriolus sagittatus</i>	Olive-backed Oriole	✓	✓
	<i>Sphecotheres viridis</i>	Figbird		
Artamidae (Woodswallows, Butcherbirds, Currawongs)	<i>Artamus leucorhynchus</i>	White-breasted Woodswallow		
	<i>Artamus superciliosus</i>	White-browed Woodswallow		✓
	<i>Artamus cyanopterus</i>	Dusky Woodswallow		
	<i>Cracticus torquatus</i>	Grey Butcherbird		✓
	<i>Cracticus nigrogularis</i>	Pied Butcherbird		
	<i>Gymnorhina tibicen</i>	Australian Magpie		✓
	<i>Strepera graculina</i>	Pied Currawong	✓	✓
Corvidae (Crows and allies)	<i>Corvus coronoides</i>	Australian Raven	✓	✓
Cororacidae (Mud-nesters)	<i>Corcorax melanorhamphos</i>	White-winged Chough		
Ptilinorhynchidae (Bowerbirds)	<i>Sericulus chrysocephalus</i>	Regent Bowerbird		
	<i>Ptilonorhynchus violaceus</i>	Satin Bowerbird		✓
Motacillidae (Old World Wagtails, Pipits)	<i>Anthus novaeseelandiae</i>	Richard's Pipit		
Passeridae (Sparrows, Weaverbirds Waxbills)	* <i>Passer domesticus</i>	House Sparrow		
	<i>Taeniopygia guttata</i>	Zebra Finch		
	<i>Taeniopygia bichenovii</i>	Double-barred Finch		
	<i>Neochmia temporalis</i>	Red-browed Finch		
	<i>Lonchura castaneothorax</i>	Chestnut-breasted Mannikin		
Dicaeidae (Flowerpeckers)	<i>Dicaeum hirundinaceum</i>	Mistletoebird	✓	✓
Hirundinidae (Swallows and Martins)	<i>Hirundo neoxena</i>	Welcome Swallow		✓
	<i>Hirundo nigricans</i>	Tree Martin		
	<i>Hirundo ariel</i>	Fairy Martin		
Sylviidae (Old World Warblers)	<i>Acrocephalus stentoreus</i>	Clamorous Reed Warbler		
	<i>Cincloramphus mathews</i>	Rufous Songlark		
	<i>Cisticola exilis</i>	Golden-headed Cisticola		

Family Name	Scientific Name	Common Name	1	2
	<i>Megalurus gramineus</i>	Little Grassbird		
	<i>Megalurus timorensis</i>	Tawny Grassbird		
Zosteropidae (White-eyes)	<i>Zosterops lateralis</i>	Silvereye	✓	✓
Sturnidae (Starlings and allies)	* <i>Sturnus vulgaris</i>	Common Starling		✓
	* <i>Acridotheres tristis</i>	Common Myna		✓

# KNOWN AND EXPECTED MAMMAL LIST

**Appendix Key:**

- ✓ = Species Detected
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Species indicated in **BOLD** font are those threatened species known from within 10km of site (Atlas of NSW Wildlife 2010)

**Data Source:**

- 1 = Species recorded within the Wallsend Link Road South
- 2 = Species recorded within the Wallsend Link Road North

Family Name	Scientific Name	Common Name	1	2
Tachyglossidae (Echidnas)	<i>Tachyglossus aculeatus</i>	Short-beaked Echidna		
Dasyuridae (Dasyurids)	<i>Antechinus stuartii</i>	Brown Antechinus	✓	✓
	<i>Antechinus swainsonii</i>	Dusky Antechinus		
	<b>Dasyurus maculatus</b>	<b>Tiger Quoll (V, V*)</b>		
	<b>Planigale maculata</b>	<b>Common Planigale (V)</b>		
Peramelidae (Bandicoots and Bilbies)	<i>Isodon macrourus</i>	Northern Brown Bandicoot		
	<i>Peremeles nasuta</i>	Long-nosed Bandicoot		
Phascolarctidae (Koala)	<b>Phascolarctos cinereus</b>	<b>Koala (V)</b>		✓
Vombatidae (Wombats)	<i>Vombatus ursinus</i>	Common Wombat		
Petauridae (Wrist-winged Gliders)	<i>Petaurus breviceps</i>	Sugar Glider	✓	✓
	<b>Petaurus norfolcensis</b>	<b>Squirrel Glider (V)</b>	✓	
	<b>Petaurus australis</b>	<b>Yellow-bellied Glider (V)</b>		
Pseudocheiridae (Ringtail Possums, Greater Glider)	<i>Pseudocheirus peregrinus</i>	Common Ringtail Possum		✓
	<i>Petauroides volans</i>	Greater Glider		
Acrobatidae (Feathertail Glider)	<i>Acrobates pygmaeus</i>	Feathertail Glider	✓	
Phalangeridae (Brushtail Possums and Cuscuses)	<i>Trichosurus vulpecula</i>	Common Brushtail Possum	✓	✓
Potoroidae (Potoroos and Bettongs)	<b>Potorous tridactylus</b>	<b>Long-nosed Potoroo (V, V*)</b>		
Macropodidae (Wallabies and	<i>Macropus giganteus</i>	Eastern Grey Kangaroo		

Family Name	Scientific Name	Common Name	1	2
Kangaroos)				
	<i>Macropus rufogriseus</i>	Red-necked Wallaby		✓
	<i>Wallabia bicolor</i>	Swamp Wallaby	✓	✓
Pteropodidae (Flying-foxes, Blossom-bats)	<b><i>Pteropus poliocephalus</i></b>	<b>Grey-headed Flying-fox (V, V*)</b>	✓	✓
	<i>Pteropus scapulatus</i>	Little Red Flying-fox		
Rhinolophidae (Horseshoe-bats)	<i>Rhinolophus megaphyllus</i>	Eastern Horseshoe-bat		✓
Emballonuridae (Sheath-tail-bats)	<b><i>Saccolaimus flaviventris</i></b>	<b>Yellow-bellied Sheath-tail bat (V)</b>		
Molossidae (Freetail-bats)	<b><i>Mormopterus norfolkensis</i></b>	<b>East Coast Freetail-bat (V)</b>	✓	
	<i>Tadarida australis</i>	White-striped Freetail-bat		✓
Vespertilionidae (Vespertilionid Bats)	<b><i>Miniopterus australis</i></b>	<b>Little Bentwing-bat (V)</b>	✓	✓
	<b><i>Miniopterus schreibersii</i></b>	<b>Common Bentwing-bat (V)</b>		
	<i>Nyctophilus geoffroyi</i>	Lesser Long-eared Bat		
	<i>Nyctophilus gouldii</i>	Gould's Long-eared Bat		
	<b><i>Chalinolobus dwyeri</i></b>	<b>Large-eared Pied Bat (V, V*)</b>		
	<i>Chalinolobus gouldii</i>	Gould's Wattled Bat	✓	
	<i>Chalinolobus morio</i>	Chocolate Wattled Bat		✓
	<b><i>Falsistrellus tasmaniensis</i></b>	<b>Eastern Falsistrelle (V)</b>		
	<b><i>Myotis adversus</i></b>	<b>Large-footed Myotis (V)</b>		
	<b><i>Scoteanax rueppellii</i></b>	<b>Greater Broad-nosed Bat (V)</b>		
	<i>Scotorepens greyii</i>	Little Broad-nosed Bat		
	<i>Scotorepens orion</i>	Eastern Broad-nosed Bat		
	<i>Vespadelus darlingtoni</i>	Large Forest Bat		✓
	<i>Vespadelus regulus</i>	Southern Forest Bat		
	<i>Vespadelus pumilus</i>	Eastern Forest Bat		
	<i>Vespadelus vulturnus</i>	Little Forest Bat	✓	✓
Muridae (Murids)	<i>Hydromys chrysogaster</i>	Water Rat		
	* <i>Mus musculus</i>	House Mouse		
	<i>Pseudomys novaehollandiae</i>	New Holland Mouse		
	<i>Rattus fuscipes</i>	Bush Rat	✓	✓

Family Name	Scientific Name	Common Name	1	2
	<i>Rattus lutreolus</i>	Swamp Rat		
	* <i>Rattus norvegicus</i>	Brown Rat		
	* <i>Rattus rattus</i>	Black Rat	✓	
Canidae (Dogs)	* <i>Canis familiaris</i>	Dog		✓
	<i>Canis familiaris dingo</i>	Dingo		
	* <i>Vulpes vulpes</i>	Red Fox		✓
Felidae (Cats)	* <i>Felis catus</i>	Feral Cat		
Leporidae (Rabbit and Hare)	* <i>Oryctolagus cuniculus</i>	European Rabbit		✓
	* <i>Lepus capensis</i>	Brown Hare		✓
Equidae (Horse and Donkey)	* <i>Equus caballus</i>	Horse		
Suidae (Pigs)	* <i>Sus scrofa</i>	Pig		
Bovidae (Horned Ruminants)	* <i>Bos taurus</i>	Cow		
	* <i>Capra hircus</i>	Goat		

# KNOWN AND EXPECTED REPTILE LIST

- Appendix Key:** ✓ = Species Detected  
**(E)** = Species listed under NSW TSC Act 1995 as Endangered.  
**(V)** = Species listed under NSW TSC Act 1995 as Vulnerable.  
**(V\*)** = Species listed under the Commonwealth EPBC Act 1999 as Vulnerable  
**(E\*)** = Species listed under the Commonwealth EPBC Act 1999 as Endangered  
**(M\*)** = Species listed under the Commonwealth EPBC Act as Migratory  
Species indicated in **BOLD** font are those threatened species known from within 10km of site (Atlas of NSW Wildlife data 2010)
- Data Source:** 1 = Species recorded within the Wallsend Link Road South  
2 = Species recorded within the Wallsend Link Road North

Family Name	Scientific Name	Common Name	1	2
Chelidae (Tortoises)	<i>Chelodina longicollis</i>	Long-necked Tortoise		✓
Agamidae (Dragons)	<i>Amphibolurus muricatus</i>	Jacky Lizard	✓	✓
	<i>Amphibolurus nobbi</i>	Nobbi		
	<i>Physignathus lesueurii</i>	Eastern Water Dragon		✓
	<i>Pogona barbata</i>	Eastern Bearded Dragon		
Pygopodidae (Legless Lizards)	<i>Lialis burtonis</i>	Burton's Snake Lizard		
	<i>Pygopus lepidopus</i>	Common Scaly-foot		
	<i>Delma plebeia</i>	Leaden Delma		
Gekkonidae (Geckoes)	<i>Diplodactylus vittatus</i>	Wood Gecko		
	<i>Phyllurus platurus</i>	Southern Leaf-tailed Gecko		
	<i>Oedura lesueurii</i>	Lesueur's Velvet Gecko		
	<i>Underwoodisaurus milii</i>	Thick-tailed Gecko		
Varanidae (Monitors)	<i>Varanus gouldii</i>	Gould's Monitor		
	<i>Varanus varius</i>	Lace Monitor	✓	✓
Scincidae (Skinks)	<i>Carlia tetradactyla</i>			
	<i>Cryptoblepharus virgatus</i>			
	<i>Ctenotus taeniolatus</i>	Copper-tailed Skink		
	<i>Ctenotus robustus</i>	Striped Skink		✓
	<i>Cyclodomorphus casuarinae</i>	She-oak Skink		
	<i>Egernia cunninghamii</i>	Cunningham's Skink		
	<i>Egernia major</i>	Land Mullet		
	<i>Egernia modesta</i>			
	<i>Egernia striolata</i>	Tree-crevice Skink		
	<i>Egernia saxatilis</i>	Black Rock Skink		

Family Name	Scientific Name	Common Name	1	2
	<i>Egernia whitii</i>	White's Skink		
	<i>Eulamprus quoyii</i>	Eastern Water Skink		
	<i>Eulamprus tenuis</i>			
	<i>Lampropholis delicata</i>	Grass Skink	✓	✓
	<i>Lampropholis guichenoti</i>	Garden Skink		
	<i>Lygisaurus foliorum</i>	Tree-base Litter-skink		
	<i>Morethia boulengeri</i>	South-eastern Morethia		
	<i>Pseudomoia platynota</i>	Red-throated Skink		
	<i>Saiphos equalis</i>			✓
	<i>Saproscincus mustelinus</i>	Weasel Skink		
	<i>Tiliqua scincoides</i>	Eastern Blue-tongued Lizard		
Typhlopidae (Blind Snakes)	<i>Ramphotyphlops bituberculatus</i>	Prong-snouted Blind Snake		
	<i>Ramphotyphlops weidii</i>	Brown-snouted Blind Snake		
	<i>Ramphotyphlops nigrescens</i>	Black Blind Snake		
Boidae (Pythons)	<i>Morelia spilota</i>	Diamond Python		
Colubridae (Tree Snakes)	<i>Boiga irregularis</i>	Brown Tree Snake		
	<i>Dendrolaphis punctulata</i>	Green Tree Snake		
Elapidae (Venomous Snakes)	<i>Furina diadema</i>	Red-naped Snake		
	<i>Cacophis krefftii</i>	Dwarf Crowned Snake		
	<i>Demansia psammophis</i>	Yellow-faced Whip Snake	✓	✓
	<i>Furina diadema</i>	Red-naped Snake		
	<i>Notechis scutatus</i>	Eastern Tiger Snake		
	<i>Pseudonaja textilis</i>	Eastern Brown Snake		
	<i>Rhinoplocephalus nigrescens</i>	Eastern Small-eyed Snake		
	<i>Vermicella annulata</i>	Bandy Bandy		
	<i>Hemiaspis signata</i>	Black-bellied Swamp Snake		
	<i>Pseudechis porphyriacus</i>	Red-bellied Black Snake		

# KNOWN AND EXPECTED FROG LIST

**Appendix Key:**

- ✓ = Species Detected
- (E) = Species listed under NSW TSC Act 1995 as Endangered.
- (V) = Species listed under NSW TSC Act 1995 as Vulnerable.
- (V\*) = Species listed under the Commonwealth EPBC Act 1999 as Vulnerable
- (E\*) = Species listed under the Commonwealth EPBC Act 1999 as Endangered
- (M\*) = Species listed under the Commonwealth EPBC Act as Migratory

Species indicated in **BOLD** font are those threatened species known from within 10km of site (Atlas of NSW Wildlife data 2010p)

**Data Source:**

- 1 = Species recorded within the Wallsend Link Road South
- 2 = Species recorded within the Wallsend Link Road North

Family Name	Scientific Name	Common Name	1	2
Hylidae (Tree Frogs)	<i>Litoria aurea</i>	<b>Green and Golden Bell Frog (E, V*)</b>		
	<i>Litoria brevipalmata</i>	<b>Green-thighed Frog (V)</b>		
	<i>Litoria caerulea</i>	Green Tree Frog		
	<i>Litoria chloris</i>	Red-eyed Green Tree Frog		
	<i>Litoria dentata</i>	Bleating Tree Frog		
	<i>Litoria fallax</i>	Eastern Dwarf Tree Frog	✓	✓
	<i>Litoria latopalmata</i>	Broad-palmed Frog	✓	✓
	<i>Litoria lesueuri</i>	Lesueur's Frog		
	<i>Litoria nasuta</i>	Rocket Frog		
	<i>Litoria peronii</i>	Peron's Tree Frog	✓	✓
	<i>Litoria phyllochroa</i>	Green Leaf Tree Frog		
	<i>Litoria tyleri</i>	Tyler's Tree Frog	✓	✓
	<i>Litoria verreauxii</i>	Verreaux's Frog		
Myobatrachidae (Ground Frogs)	<i>Adelotus brevis</i>	Tusked Frog		
	<i>Crinia signifera</i>	Common Eastern Froglet	✓	✓
	<b><i>Crinia tinnula</i></b>	<b>Wallum Froglet (V)</b>		
	<i>Limnodynastes dumerilli</i>	Eastern Banjo Frog		
	<i>Limnodynastes ornatus</i>	Ornate Burrowing Frog		
	<i>Limnodynastes peronii</i>	Striped Marsh Frog	✓	
	<i>Limnodynastes tasmaniensis</i>	Spotted Grass Frog	✓	✓
	<i>Mixophyes fasciolatus</i>	Great Barred Frog		
	<i>Pseudophryne coriacea</i>	Red-backed Toadlet	✓	✓
	<i>Pseudophryne bibronii</i>	Brown Toadlet		
<i>Uperoleia fusca</i>	Dusky Toadlet		✓	
<i>Uperoleia laevigata</i>	Smooth Toadlet		✓	

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# Appendix 5

## Vegetation Communities Photographs



Plate 1 Coastal Plains Smooth-barked Apple Woodland



Plate 2 Coastal Foothills Spotted Gum Ironbark Forest



Plate 3 Lower Hunter Spotted Gum Ironbark Forest



Plate 4 Alluvial Tall Moist Forest



Plate 5 Hunter Lowland Redgum Forest



Plate 6 Freshwater Wetlands Complex



Plate 7 Weeds and Cleared Areas



Plate 8 Dams

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# Appendix 6

## Qualifications of Personnel

**MATTHEW DOHERTY**

Manager - Ecology & GIS

Newcastle, NSW

Bachelor of Landscape Management and Conservation (Land & Water Conservation Major), University of Western Sydney, 2002

Bushland Regeneration Certificate II, Western Sydney Institute of TAFE, 1999

Spikeless Tree Climbing Techniques, Total Height Safety, 2004

OH&S Induction Training (Green Card)

NPWS Scientific Investigation Licence

NSW Animal Ethics Research Authority

Senior First Aid

**AREAS OF EXPERTISE:**

Matt has seven years experience in the environmental industry with key skills in project management, survey design, GIS and client relations. In his position as Ecology & GIS Manager, Matt manages environment department including the day to day running of projects, verification of reports and other outputs and ensures clients are well informed of project progress and key findings. Matthew's background in local government, state government and private consultancy gives him a high level of appreciation of the environmental and consultancy sector, thus allowing him to take a pragmatic approach to providing successful conservation and development outcomes whilst meeting the aims and objectives of clients and determining authorities.

**SELECTED PROJECT EXPERIENCE:****Ecology and GIS**

- **Various large-scale land development, mining, energy and infrastructure projects** – Matt has project managed and/or participated in numerous large-scale land development, mining, energy and infrastructure projects including Queensland Hunter Gas Pipeline (850km); Hunter Gas Pipeline; Rio Tinto Lower Hunter Lands Project; GIS biodiversity, large scale vegetation, habitat and predicative modelling mapping works; wind farms and coordination of environmental monitoring programs for mines

**PREVIOUS EXPERIENCE:****Ecologist – Andrews Neil Pty Ltd****2004 - 2005**

Duties included: preparation of Fee Proposals for Ecological Services; General and Targeted Flora and Fauna Surveys including Flora and Fauna Identification; Desktop Studies and Literature Searches; Interpretation and Application of Legislation; report preparation including Threatened Species Assessments (8 part test), Vegetation Management Plans (Riparian Restoration/ Rehabilitation, Bush Regeneration), Species Impact Statements, Weed Management Strategies, Habitat Management Strategies and Tree Assessments; GIS/ Spatial Analysis and Database Management; Liaison with Client, Stakeholder Groups, State and Local Governing Bodies; Site Supervision of Ecological Conditions; Tree Climbing for installation, maintenance and monitoring of nestboxes.

**Project Officer / Horticultural Services – Gosford City Council****06/2003 – 05/2004**

Comprehensively reviewed noxious weed management; performed vegetation surveys on GCC landfills to identify the presence of noxious weeds; quantify the extent of infestation of each noxious weeds species and map the



## Curriculum Vitae

- CONTINUED -

affected areas; developed a management plan for the control of NW species identified in the survey in accordance with relevant legislation; maintained Japanese Gardens along with City Wide Gardens and Streetscapes.

### Various Roles whilst at University

1997 - 2002

#### Environmental Officer - Dept of Land & Water Conservation, Newcastle

01/1999 – 12/1999

Liaised with relevant agency and stakeholder groups; researched and prepared an extensive literature review of issues pertaining to riparian vegetation; assessed current best practice for revegetation and rehabilitation of degraded sites; prepared a Riparian Revegetation Management Strategy

#### Volunteer – Maitland City Council

07/1999 – 12/1999

Assisted with Rivercare implementation throughout LGA. Utilised primary, secondary and field research to prepare a River Plan under 'Rivercare' guidelines.

#### Volunteer – Brisbane Waters & Gosford Lagoons Catchment Management Committee

03/1998 – 05/1998

Prepared Riparian Zone Rehabilitation Plan for Degraded Creek Management, Research and prepared a Riparian Zone Rehabilitation Project. Member on several Gosford City Council steering committees and working groups.

### MEMBERSHIPS & ACHIEVEMENTS:

- Fire Protection Association Australia (FPAA)

## CRAIG ANDERSON

Senior Ecologist – Senior Project Manager

Newcastle, NSW

Bachelor Applied Science (Environmental Assessment & Management), University of Newcastle, 1994

Graduate Diploma in Archaeological Heritage, UNE, Current

RFS/PIA NSW Consulting Planners Bushfire Training

### AREAS OF EXPERTISE:

Craig has over 15 years experience in a wide range of environmental consulting. He has undertaken and managed commissions for a diverse range of projects within land development, energy, mining, infrastructure and conservation, including State Significant developments.

Craig has an extensive background in ecological field surveys, encompassing all aspects of flora and fauna identification, targeted surveying and mapping. He was involved in the initial formulation of an Association of Consulting Ecologists for NSW in 1998 and has acted as an expert witness in several Land and Environment Court matters relating to ecology and bushfire assessment. He is an experienced negotiator of ecological / development outcomes, and has a detailed understanding of legislation related to ecological matters.

Craig has been actively involved in representations to the Department of Environment on behalf of the NSW Urban Taskforce in regards to proposed changes to the NSW Threatened Species Conservation Act, and for the Urban Development Institute of Australia (UDIA) on matters relating to issues such as the proposed listing of endangered ecological communities, regional environmental biodiversity strategies, and the Native Vegetation Act and the operations of the Catchment Management Authority (CMA).

### SELECTED PROJECT EXPERIENCE:

#### Ecology

- **Buttaba Hills (336 Lots)** – Species Impact Statement
- **Hunter Economic Zone (800+ ha industrial estate)** – Species Impact Statement
- **Pelaw Main By-Pass to Hunter Economic Zone** – Species Impact Statement
- **Residential development / Eco-Resort / Fauna Sanctuary at Paxton** - Flora and Fauna Assessment incorporating Seven Part Tests of Significance of Impact under Threatened Species Legislation
- **SEPP 5 Aged Care facilities, Kariong, Hawks Nest, Wallsend, Glenhaven** - Flora and Fauna Assessment incorporating Seven Part Tests of Significance of Impact under Threatened Species Legislation
- **Caravan Park extensions, Fern Bay** - Flora and Fauna Assessment incorporating Seven Part Tests of Significance of Impact under Threatened Species Legislation
- **Road & Rail Infrastructure for the Hunter Economic Zone** - Flora and Fauna Assessment incorporating Seven Part Tests of Significance of Impact under Threatened Species Legislation
- **Alignments for Hunter Gas Pipeline Infrastructure** - Flora and Fauna Assessment incorporating Seven Part Tests of Significance of Impact under Threatened Species Legislation
- **Landscape Concept Plan, rural subdivision at Oakhampton Heights** - Vegetation Management Plan
- **Creek Rehabilitation Plan, Warners Bay** - Vegetation Management Plan
- **Vegetation Management Plan for a retained creek line with Sugar Valley Golf Course, West Wallsend** - Vegetation Management Plan
- **Individual Koala Plan of Management under SEPP 44 at Hawks Nest** – Management Plan



## Curriculum Vitae

- CONTINUED -

- **Ecological Constraints Management Plan, Hawks Nest North** - Management Plan
- **Management Plan for the Green & Golden Bell Frog at Culburra** - Management Plan
- **Fuel Management Plan over lots within a rural-residential estate at Glen Oak** - Management Plan
- **Ecological Constraints Master Plan for Hunter Economic Zone** - Management Plan
- **Environmental Plan of Management for Residential / Tourism Sanctuary Project at Paxton** - Management Plan
- **Green and Golden Bell Frog Survey and Management Plan, Gillieston Heights** - Targeted Species Study
- Targeted Species Studies as part of the Ecological Constraints Master Plan for the Hunter Economic Zone

### PREVIOUS EXPERIENCE:

#### **Senior Ecologist, Wildthing Environmental Consulting**

**1995 – 2000**

Oversaw operations in NSW and Qld, and project managed and undertook numerous ecological and bushfire assessments for a diverse array of clients / projects.

#### **Environmental Officer, Pulver Cooper & Blackley / Kel Nagle Cooper & Associates**

**1994 - 1995**

Undertook a range of environmental, planning and survey investigations; fieldwork; reporting for a range of land development; and golf course development projects.

### MEMBERSHIPS & ACHIEVEMENTS:

- Frog and Tadpole Study Group (FATS)
- Hunter Birds Observers Club (HBOC). Committee Member 2009. Records Appraisal Committee, 2008 – present
- Bird Observers Club of Australia (BOCA)
- Donaldson Conservation Trust. Board member (independent environmental expert). 2009 – present.



## Curriculum Vitae

<b>Name:</b>	Allan Richardson
<b>Office:</b>	RPS Harper Somers O'Sullivan
<b>Position in Company:</b>	Senior Ecologist
<b>Qualifications / Awards</b>	B.Env.Sc. (Environmental Management) B.Env.Sc. (Hons) (Biology) – Migratory Wading Bird Study 2002 Hunter Environmental Institute Scholarship Waterways Authority Boating Licence OH&S Induction Training (Green Card) NSW Driver's Licence (Class C) NPWS Scientific Licence NSW Animal Ethics Research Authority St John Ambulance Senior First Aid Certificate
<b>Memberships:</b>	Hunter Bird Observers Club Victorian Wader Study Group

### Areas of Expertise:

- Ornithological Surveys and Research
- Targeted and general Terrestrial flora and fauna surveys
- Threatened Flora & Fauna Assessment, Reporting and Legislation
- GPS Survey and GIS Mapping Projects
- High Level Nature Photography
- Tertiary and General Ecological Tutoring, Demonstrating and Presenting

### Recent Experience Includes:

Allan Richardson has broad range of Ecological Assessment reporting experience underpinned by over 27 years of ecological field experience. Over four and a half years of project experience has primarily included a range of flora and fauna assessment disciplines as required by a wide range of corporate and domestic client requirements. Allan has a strong grounding in threatened species ecology in both coastal and western NSW regional areas, with specialist migratory wader studies expertise in Central NSW and Roebuck Bay in North Western Australia.

Allan's wide ranging interest across different ecological disciplines, has been a central part of important threatened species projects, including, the Critically Endangered North Rothbury Persoonia, Hunter Estuary Green and Golden Bell Frog populations, Migratory Wader habitat usage surveys, seasonal Swift Parrot movements and specialised Avifauna Wind Farm Surveys on the east and west coast. Allan's broad ecological experience also represents an important part of RPS HSO's threatened flora and vegetation community mapping, targeted fauna survey works and threatened species habitat assessments over both small and large spatial areas for a range of client needs. His depth of experience and a strong knowledge of Australian fauna and regional vegetation contribute strongly to RPS HSO's ability to meet the consultation and regulatory needs of the development community.

## SARAH JONES

Ecologist / Bushfire Planner

Newcastle, NSW

B. Env.Sc, University of Newcastle

G.Dip (Design for Bushfire Areas)

RFS / PIA NSW Consulting Planners Bushfire Training Course

### AREAS OF EXPERTISE:

Sarah has over 10 years experience as an Ecologist, including over 8 years with RPS as the company's bushfire planning specialist. Sarah has gained extensive experience in Bushfire Threat Assessment & Management reporting, Bushfire Risk Management Plans, Fuel Management Plans, Bushfire Evacuation Plans, understanding of fire regimes upon flora and fauna, Vegetation Management Plans, Terrestrial flora and fauna surveys, Flora and Fauna Assessments, along with understanding of environmental legislation and threatened species issues.

### PREVIOUS EXPERIENCE:

**Ecologist – Ecotone Environmental Consultants, Waratah, NSW**

**Jan 2001 – Nov 2001**

**Volunteer Environmental Educator – Community Partnership,  
Newcastle City Council**

**Sept 2000 – Dec 2000**

### MEMBERSHIPS & ACHIEVEMENTS:

- Member of the Fire Protection Association Australia (FPA)
- Member of the Bushfire Planning and Design Special Interest Group (BPAD)
- NSW Driver's Licence (Class C)
- OH&S Induction Training (Green Card)
- NPWS Scientific Investigation Licence
- NSW Animal Ethics Research Authority

## TOBY LAMBERT

Senior Ecologist / Senior Project Manager

Newcastle, NSW

Bachelor of Environmental Science, University of Newcastle, 1993 - 1996

Accredited BioBanking Assessor, Tafe NSW – Ryde, 2009

NSW Driver's Licence (Class C)

OH&S Induction Training (Green Card)

NPWS Scientific Investigation Licence and NSW Animal Ethics Research Authority

### AREAS OF EXPERTISE:

Toby has over fourteen years experience in undertaking and managing a diverse array of ecological and environmental surveys and assessments. As a Senior Ecologist – Senior Project Manager, he supervises all facets of flora and fauna assessment and related reports: planning, supervision of field and reporting staff, project scheduling, budget management, liaising with clients and Government departments and providing advice of all kinds. He has also been called upon to prepare expert evidence for matters at the NSW Land and Environment Court. Toby has produced ecological and environmental documentation for private and public projects ranging in complexity. These include a number of wind farms throughout Australia and New Zealand, coal mines and a range of infrastructure projects within the Hunter region. Toby has also managed ecological master planning for residential projects in Sydney, the Central Coast and the Hunter. Toby's fields of expertise are Environmental Impact Assessment and mediation, flora, fauna and habitat survey method, design and identification, detailed understanding of legislation and threatened species issues, terrestrial fauna surveys and project management. He has experience in conducting comprehensive fauna surveys and preparing related documentation in a broad array of environments throughout New South Wales, with most projects located in the greater Sydney area, Blue Mountains, Central Coast, Hunter and Forster / Great Lakes regions. Toby has also undertaken ecological projects in Western Australia, Queensland, the ACT and New Zealand.

### SELECTED PROJECT EXPERIENCE:

#### Ecology

- **Hunter Economic Zone Industrial Estate** - Project Manager for the environmental component of the development of the Hunter Economic Zone industrial estate at Kurri Kurri, to be the largest industrial estate in NSW.
- **Centennial Coal** - Environmental Project Manager for consultancy works to Centennial Coal covering a broad range of disciplines, but primarily focussed on ecological impact assessments, monitoring and management at six coal mines in the western Blue Mountains and Lake Macquarie NSW.
- **Peabody Energy Australia** - Senior Project Manager for project specific and ongoing monitoring requirements for Wambo Coal Mine at Warkworth in the Upper Hunter Valley. Toby liaises directly with the Environmental Manager of the mine in relation to requirements to fulfil consent conditions for the ongoing development and operation of the project.
- **Allco Wind Energy** - This involved undertaking fauna surveys for a 100 turbine wind farm on the North Island of New Zealand and coordinating other ecological specialists to prepare an ecological impact assessment for submission to Taranaki Council. Aspects included regular liaison with the Department of Conservation regarding issues of significance, survey methodology, and mitigation and management measures to protect significant ecological features. Local bird groups were also involved and Toby was involved in the public consultation sessions.



## Curriculum Vitae

- CONTINUED -

- **Stockland Wallarah Peninsula** - This Lake Macquarie, NSW project required a multi-disciplinary approach to an innovative residential proposal on environmentally sensitive land. Project management of, and participation in, a large and diverse planning team were major features of this work. Toby was a pivotal member of the project management team that provided the detailed ecological input and advice that was required from the early stages of the planning process to the point of submission to determining authorities. The proposal required sophisticated and creative impact assessment and reporting. Toby made a major contribution to the production of a series of comprehensive ecological reports that ensured the ecological integrity of the site was maintained in the post-development landscape.

### PREVIOUS EXPERIENCE:

**Senior Project Manager - Cumberland Ecology, Epping** **2005**

Duties included flora and fauna surveying and survey design; overseeing and contribution to the preparation of complex ecological and environmental reports for both small and large projects; flora and fauna surveying and survey design; liaison with both the private sector and federal, state and local government departments.

**Principal Consultant / Co-Founder - Keystone Ecological, Kariong** **2004 - 2005**

Preparation and development of Keystone Ecological Flora and Fauna Impact Assessment report format; development of client database, including organisation of promotional material, logo design and customer relations; administration including preparation of quotes and invoices and organising accounts and BAS statements; Flora and fauna surveying and survey design; along with Anabat II Data Analysis.

**Project Manager - Ecology - Conacher Travers Environmental, Somersby** **1998 - 2004**

Supervision of flora and fauna survey design; report quality control; production of technical reports such as Review of Environmental Factors, Flora & Fauna Assessments, Statement of Environmental Effects, Species Impact Statements and Plans of Management, Land and Environment Court Evidence preparation, EPBC Act Referrals and Preliminary Information preparation; Flora & fauna surveying; liaison with Department of Environment and Conservation, Department of Environment and Heritage, Department of Infrastructure, Planning and Natural Resources, Department of Agriculture, Local Governments and private clients; Anabat II Data Analysis; Water Testing; Data Recording and Statistical Analysis.

**Volunteer for Green and Golden Bell Frog Survey - Australian Museum, North Avoca** **1999 - 2001**

Survey and searches for the endangered species Green & Golden Bell Frog; assisting in weighing, measuring and micro-chipping frogs for on-going research purposes.

**Environmental Scientist - Australian Defence Industries (ADI), St Marys** **1998**

Bore Water Sampling; statistical analysis of test results; and report production.

**Environmental Scientist - Anne Clements & Associates, North Sydney** **1997**

Field Assistant to Botanist and data recording.

**Research Assistant - University of Newcastle** **1996**

Initiation of design of final year project for Biology Dept; research into fire regimes on species composition & regeneration in open woodland; use of advanced scientific equipment including infra red gas analyser in the field, and replication of experiments using computer database; theoretical knowledge on soils, nutrient cycles & vegetation types.

### MEMBERSHIPS & ACHIEVEMENTS:

- Ecological Consultants Association of NSW (ECA) – Council Member
- Newcastle Green Drinks for Environmental Professionals organising committee

## Curriculum Vitae

**Name:** Shaun Corry  
**Office:** RPS Newcastle  
**Position in Company:** Ecologist  
**Qualifications / Memberships:** Dip Conservation and Land Mgt  
NSW Driver's Licence (Class C)  
Waterways Authority Boating Licence  
OH&S Induction Training (Green Card)  
NPWS Scientific Investigation Licence  
NSW Animal Ethics Research Authority

### Areas of Expertise:

- Flora and fauna identification and habitat assessment
- Targeted threatened flora and fauna surveys
- Delineation and mapping of vegetation communities
- Endangered Ecological Community (EEC) assessment
- Experience with GPS/GIS for project design and mapping
- Conducting Field Surveys for Flora, Fauna and Habitat Identification
- Report Preparation including Fauna & Flora Assessments
- Ecological Monitoring and Reporting
- Bushfire Threat Assessment & Management reporting
- Understanding of environmental legislation

### Recent Experience Includes:

Shaun has a broad range of Ecological Assessment reporting experience and ecological field experience. Experience within the consulting industry has primarily included a wide range of flora assessment disciplines as required by a wide range of public and private clients. Shaun has a strong grounding in threatened flora species, endangered ecological communities and populations throughout NSW. Shaun has undertaken flora and fauna surveys including targeted surveys for threatened flora species within the Blue Mountains, Hunter, Central Coast, Mid North Coast and Southern Queensland.

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# Appendix 7

## EPBC Act Approval

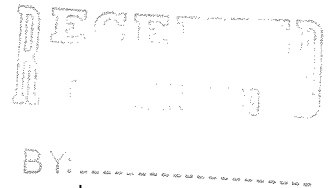


**Australian Government**

**Department of the Environment, Water, Heritage and the Arts**

Mr Matthew Doherty  
Environmental and GIS Manager  
RPS Harper Somers O'Sullivan  
PO Box 428  
HAMILTON NSW 2303

Date: 23 December 2008  
EPBC Ref: 2008/4603  
EPBC contact: Mark Jenkins  
02 6274 1558  
Mark.jenkins@environment.gov.au



Dear Mr Doherty

**Decision on referral  
Industrial and Residential Subdivision, Black Hill and Minmi, Newcastle,  
NSW**

This proposed action, to create an industrial subdivision at Black Hill and a residential subdivision at Minmi-Link Road, Newcastle, NSW, has now been considered under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

**We have decided that the proposed action is not a controlled action and, as such, does not require assessment and approval by the Minister for the Environment, Heritage and the Arts before it can proceed.**

A copy of the document recording this decision is enclosed.

Please note that this decision relates only to the potential for significant impact on the specific matters protected by the Australian Government under Chapter 4 of the EPBC Act.

There may be a need for separate state or local Government environment assessment and approval to address potential impacts on state, regional or local environmental values.

The department has an active audit program for proposals that have been referred or approved under the EPBC Act. The audit program aims to ensure that proposals are implemented as planned and that there is a high degree of compliance with any associated conditions. You should be aware that your project may be selected for audit by the department at any time and all related records and documents may be subject to scrutiny. Information about the department's audit strategy is enclosed.

I have written separately to Mr Keith Dedden of Coal and Allied Pty Ltd advising him of this decision.

If you have any questions about the referral process or this decision, please contact the EPBC project manager and quote the EPBC reference number shown at the beginning of this letter.

Yours sincerely

Cathy Skippington  
Assistant Secretary  
Environment Assessment Branch



**Australian Government**

**Department of the Environment, Water, Heritage and the Arts**

**Notification of  
REFERRAL DECISION – not controlled action**

**Industrial and Residential Subdivision, Black Hill and Minmi, NSW (EPBC  
2008/4603)**

This decision is made under Section 75 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

**Proposed action**

person named in the referral      Coal and Allied Industries Pty Ltd

**proposed action**

- To create an industrial subdivision at Black Hill and a residential subdivision at Minmi-Link Road, Newcastle, NSW;
- To dedicate 2411 ha of land at Stockrington and Tank Paddock to the New South Wales Government for permanent conservation; and
- To conduct these actions as described in the referral received on 21 November 2008, on the lots listed in the additional information received on 17 December 2008.

**Referral decision: Not a controlled action**

status of proposed action      The proposed action is not a controlled action.

**Person authorised to make decision**

Name and position      Ms Cathy Skippington  
Assistant Secretary  
Environment Assessment Branch

signature

date of decision

23-12-08