PLANNING PROPOSAL REQUEST No. 229 Macquarie Grove Road, Cobbitty (Camden Council)



Prepared For: Trustees of the Sisters Of the Good Samaritan Prepared By:



Volume 2 Annexure "D" Appendices 1 & 2 Biodiversity Overview and Management Principles (Travers Ecological)

October 2021

Appendix 1. Flora & Fauna Species Lists

Flora species recorded

Family	Scientific name	Common name
TREES		
Mimosaceae	Acacia decurrens	Black Wattle
Mimosaceae	Acacia parramattensis	Parramatta Wattle
Myrtaceae	Acmena smithii	Lillypilly
Myrtaceae	Angophora costata	Smooth-barked Apple
Myrtaceae	Angophora subvelutina	-
Casuarinaceae	Casuarina cunninghamiana	River Oak
Lauraceae	Cinnamomum camphora*	Camphor Laurel
Rutaceae	Citrus limon*	Lemon Tree
Rutaceae	Citrus sinensis*	Orange Tree
Myrtaceae	Corymbia eximia	Yellow Bloodwood
Myrtaceae	Corymbia maculata	Spotted Gum
Myrtaceae	Eucalyptus eugenioides	Thin-leaved Stringybark
Myrtaceae	Eucalyptus microcorys	Tallowwood
Myrtaceae	Eucalyptus moluccana	Grey Box
Myrtaceae	Eucalyptus robusta	Swamp Mahogany
Myrtaceae	Eucalyptus scoparia ^{TS}	Wallangarra White Gum
Myrtaceae	Eucalyptus siderophloia	Northern Grey Ironbark
Myrtaceae	Eucalyptus tereticornis	Forest Red Gum
Santalaceae	Exocarpos cupressiformis	Native Cherry
Proteaceae	Grevillea robusta	Silky Oak
Bignoniaceae	Jacaranda mimosifolia*	Jacaranda
Lythraceae	Lagerstroemia indica*	Crepe Myrtle
Myrtaceae	Melaleuca linariifolia	Snow in Summer
Pinaceae	Pinus radiata*	Radiata or Monterey Pine
Anacardiaceae	Schinus areira*	Pepper Tree
Proteaceae	Stenocarpus sinuatus	Queensland Firewheel Tree
SHRUBS		
Mimosaceae	Acacia fimbriata	Fringed Wattle
Mimosaceae	Acacia floribunda	Sally Wattle
Mimosaceae	Acacia implexa	Hickory
Mimosaceae	Acacia longifolia var. longifolia	Sydney Golden Wattle
Pittosporaceae	Bursaria spinosa var. spinosa	Native Blackthorn
Myrtaceae	Callistemon viminalis	Weeping Bottlebrush
Solanaceae	Cestrum parqui*	Chilean Cestrum
Fabaceae	Dillwynia sieberi	Prickly Parrot-pea
Verbenaceae	Duranta repens*	Golden Dewdrop
Fabaceae	Indigofera australis	Native Indigo

Family	Scientific name	Common name
Verbenaceae	Lantana camara*	Lantana
Myrtaceae	Leptospermum petersonii*	Lemon Scented Tea-tree
Solanaceae	Lycium ferocissimum*	African Boxthorn
Araceae	Monstera deliciosa*	Fruit-salad Plant
Rutaceae	Murraya paniculata*	Orange Jessamine
Berberidaceae	Nandina domestica*	Sacred Bamboo
Oleaceae	Olea europaea subsp. cuspidata*	African Olive
Asteraceae	Osteospermum fruticosum*	Shrubby Daisy-bush
Rosaceae	Photinia robusta*	-
Phytolaccaceae	Phytolacca octandra*	Inkweed
Rosaceae	Rubus fruticosus sp. agg.*	Blackberry Complex
Solanaceae	Solanum sisymbriifolium	-
GROUNDCOVERS		
Liliaceae	Agapanthus praecox*	Agapanthus
Rubiaceae	Asperula conferta	Common Woodruff
Poaceae	Axonopus fissifolius*	Narrow-leafed Carpet Grass
Asteraceae	Bidens pilosa*	Cobbler's Pegs
Brassicaceae	Brassica rapa*	Wild Turnip
Crassulaceae	Bryophyllum delagoense*	Mother-of-Millions
Brassicaceae	Capsella bursa-pastoris*	Shepherds purse
Cyperaceae	Carex appressa	Tall Sedge
Asteraceae	Carthamus lanatus*	Saffron Thistle
Poaceae	Cenchrus clandestinus*	Kikuyu
Apiaceae	Centella asiatica	Indian Pennywort
Sinopteridaceae	Cheilanthes sieberi	Rock Fern
Poaceae	Chloris gayana*	Rhodes Grass
Poaceae	Chloris truncata	Windmill Grass
Poaceae	Chloris ventricosa	Tall Chloris
Asteraceae	Cirsium vulgare*	Spear Thistle
Amaryllidaceae	Clivia miniata*	Bush Lily
Asteraceae	Conyza bonariensis*	Flaxleaf Fleabane
Asteraceae	Conyza sumatrensis*	Fleabane
Poaceae	Cynodon dactylon	Common Couch
Cyperaceae	Cyperus eragrostis*	Umbrella Sedge
Cyperaceae	Cyperus gracilis	-
Convolvulaceae	Dichondra repens	Kidney Weed
Poaceae	Ehrharta erecta*	Panic Veldtgrass
Chenopodiaceae	Einadia nutans	Climbing Saltbush
Poaceae	Eragrostis curvula*	African Lovegrass
Euphorbiaceae	Euphorbia peplus*	Spurge
Fumariaceae	Fumaria muralis*	Wall Fumitory
Geraniaceae	Geranium homeanum	Northern Cranesbill

Family	Scientific name	Common name
Dilleniaceae	Hibbertia diffusa	-
Clusiaceae	Hypericum gramineum	Small St Johns Wort
Asteraceae	Hypochaeris radicata*	Flatweed
Poaceae	Imperata cylindrica var. major	Blady Grass
Juncaceae	Juncus usitatus	Common Rush
Brassicaceae	Lepidium africanum*	Common Peppercress
Lobeliaceae	Lobelia purpurascens	Whiteroot
Lomandraceae	Lomandra filiformis	Wattle Mat-rush
	Lomandra multiflora subsp.	
Lomandraceae	multiflora	Many-flowered Mat-rush
Fabaceae	Lotus suaveolens*	Hairy Bird's Foot Trefoil
Primulaceae	Lysimachia arvensis*	Scarlet Pimpernel
Fabaceae	Medicago polymorpha*	Burr Medic
Poaceae	Microlaena stipoides var. stipoides	Weeping Grass
Malvaceae	Modiola caroliniana*	Red-flowered Mallow
Brassicaceae	Nasturtium officinale*	Watercress
Onagraceae	Oenothera stricta*	Evening Primrose
Oxalidaceae	Oxalis perennans	-
Poaceae	Paspalum dilatatum*	Paspalum
Plantaginaceae	Plantago debilis	Slender Plantain
Plantaginaceae	Plantago lanceolata*	Ribwort
Poaceae	Poa affinis	-
Acanthaceae	Pseuderanthemum variabile	Pastel Flower
Dennstaedtiaceae	Pteridium esculentum	Bracken
Iridaceae	Romulea rosea var. australis*	Onion Grass
Polygonaceae	Rumex crispus*	Curled Dock
Poaceae	Rytidosperma tenuius	Wallaby Grass
Asteraceae	Senecio madagascariensis*	Fireweed
Poaceae	Setaria parviflora*	-
Malvaceae	Sida rhombifolia*	Paddy's Lucerne
Solanaceae	Solanum prinophyllum	Forest Nightshade
Solanaceae	Solanum pseudocapsicum*	-
Asteraceae	Soliva sessilis*	Jojo
Asteraceae	Sonchus oleraceus*	Common Sow-thistle
Poaceae	Stenotaphrum secundatum*	Buffalo Grass
Strelitzeaceae	Strelitzia juncea*	Bird of Paradise
Asteraceae	Taraxacum officinale*	Dandelion
Poaceae	Themeda triandra	Kangaroo Grass
Commelinaceae	Tradescantia fluminensis*	Wandering Jew
Fabaceae	Trifolium repens*	White Clover
Typhaceae	Typha orientalis	Cumbungi
Scrophulariaceae	Verbascum virgatum*	Twiggy Mullein

Family	Scientific name	Common name				
Verbenaceae	Verbena bonariensis*	Purpletop				
Verbenaceae	Verbena rigida*	Veined Verbena				
Plantaginaceae	Veronica plebeia	Creeping Speedwell				
Agavaceae	Yucca aloifolia*	Yucca				
VINES						
Basellaceae	Anredera cordifolia*	Madeira Vine				
Apocnyaceae	Araujia sericifera*	Mothvine				
Ranunculaceae	Clematis aristata	Old Man's Beard				
Fabaceae	Glycine clandestina	Twining Glycine				
Fabaceae	Hardenbergia violacea	False Sarsparilla				
Bignoniaceae	Pandorea pandorana	Wonga Vine				
* denotes exotic species TS denotes threatened species						

It should be noted that not all garden, cultivar or landscape species have been identified as part of this assessment.

Fauna species recorded

Common name	Scientific name	Method ob	Method observed		
Birds		OEH 2016	TBE 2021		
Australasian Grebe	Tachybaptus novaehollandiae	Not given			
Australasian Darter	Anhinga novaehollandiae	Not given			
Australian Hobby	Falco longipennis	Not given			
Australian King Parrot	Alisterus scapularis	Not given			
Australian Magpie	Cracticus tibicen	Not given	OW		
Australian Owlet-nightjar	Aegotheles cristatus	Not given			
Australian Raven	Corvus coronoides	Not given	OW		
Australian White Ibis	Threskiornis molucca	Not given			
Australian Wood Duck	Chenonetta jubata	Not given	0		
Azure Kingfisher	Ceyx azureus	Not given			
Bar-shouldered Dove	Geopelia humeralis	Not given			
Bell Miner	Manorina melanophrys	Not given	W		
Black-faced Cuckoo-shrike	Coracina novaehollandiae	Not given			
Brown Cuckoo-Dove	Macropygia amboinensis	Not given			
Brown Gerygone	Gerygone mouki	Not given			
Brown Goshawk	Accipiter fasciatus	Not given			
Brown Thornbill	Acanthiza pusilla	Not given			
Brown-headed Honeyeater	Melithreptus validirostris	Not given			
Common Bronzewing	Phaps chalcoptera	Not given			
Common Myna *	Sturnus tristis	Not given			
Common Starling *	Sturnus vulgaris	Not given			
Crested Pigeon	Ocyphaps lophotes	Not given	OW		
Crested Shrike-tit	Falcunculus frontatus	Not given			
Crimson Rosella	Platycercus elegans	Not given			
Double-barred Finch	Taeniopygia bichenovii	Not given			
Dusky Moorhen	Gallinula tenebrosa	Not given			

Common name	Scientific name	Method ob	served
Dusky Woodswallow TS	Artamus cyanopterus	Not given	
Eastern Cattle Egret	Bubulcus coromandus	Not given	
Eastern Rosella	Platycercus eximius	Not given	0
Eastern Spinebill	Acanthorhynchus tenuirostris	Not given	
Eastern Whipbird	Psophodes olivaceus	Not given	
Eastern Yellow Robin	Eopsaltria australis	Not given	
Eurasian Blackbird	Turdus merula	Not given	0
Fan-tailed Cuckoo	Cacomantis flabelliformis	Not given	
Galah	Eolophus roseicapillus	Not given	OW
Golden Whistler	Pachycephala pectoralis	Not given	
Great Cormorant	Phalacrocorax carbo	Not given	
Grey Butcherbird	Cracticus torquatus	Not given	
Grey Fantail	Rhipidura albiscapa	Not given	OW
Grey Shrike-thrush	Colluricincla harmonica	Not given	
Grey Teal	Anas gracilis	Not given	
Hardhead	Aythya australis	Not given	
Jacky Winter	Microeca fascinans	Not given	
Laughing Kookaburra	Dacelo novaeguineae	Not given	OW
Lewin's Honeyeater	Meliphaga lewinii	Not given	W
Little Black Cormorant	Phalacrocorax sulcirostris	Not given	
Little Corella	Cacatua sanguinea	Not given	W
Little Eagle TS	Hieraaetus morphnoides	Not given	
Little Lorikeet TS	Glossopsitta pusilla	Not given	
Little Pied Cormorant	Microcarbo melanoleucos	Not given	
Magpie-lark	Grallina cyanoleuca	Not given	WO
Masked Lapwing	Vanellus miles	Not given	
Mistletoebird	Dicaeum hirundinaceum	Not given	
Musk Lorikeet	Glossopsitta concinna	Not given	
Nankeen Kestrel	Falco cenchroides	Not given	
Noisy Friarbird	Philemon corniculatus	Not given	
Noisy Miner	Manorina melanocephala	Not given	OW
Olive-backed Oriole	Oriolus sagittatus	Not given	
Pacific Black Duck	Anas superciliosa	Not given	
Peaceful Dove	Geopelia striata	Not given	
Pied Butcherbird	Cracticus nigrogularis		0
Pied Cormorant	Phalacrocorax varius	Not given	
Pied Currawong	Strepera graculina	Not given	0
Powerful Owl ^{TS}	Ninox strenua	Not given	
Purple Swamphen	Porphyrio porphyrio	Not given	
Rainbow Lorikeet	Trichoglossus haematodus	Not given	W
Red-browed Finch	Neochmia temporalis	Not given	
Red Wattlebird	Anthochaera carunculata	Not given	OW
Red-rumped Parrot	Psephotus haematonotus	Not given	
Red-whiskered Bulbul *	Pycnonotus jocosus	Not given	
Restless Flycatcher	Myiagra inquieta	Not given	
Rose Robin	Petroica rosea	Not given	
Royal Spoonbill	Platalea regia	Not given	

Common name	Scientific name	Method obs	served
Rufous Fantail ^{MS}	Rhipidura rufifrons	Not given	
Satin Bowerbird	Ptilonorhynchus violaceus	Not given	
Scarlet Honeyeater	Myzomela sanguinolenta	Not given	
Shining Bronze-cuckoo	Chalcites lucidus	Not given	
Silvereye	Zosterops lateralis	Not given	
Southern Boobook	Ninox novaeseelandiae	Not given	
Speckled Warbler TS	Chthonicola sagittata	Not given	
Spotted Pardalote	Pardalotus punctatus	Not given	
Spotted Turtle-Dove *	Streptopelia chinensis	Not given	
Striated Pardalote	Pardalotus striatus	Not given	
Sulphur Crested Cockatoo	Cacatua galerita	Not given	
Superb Fairy-wren	Malurus cyaneus	Not given	
Tawny Frogmouth	Podargus strigoides	Not given	
Varied Sittella TS	Daphoenositta chrysoptera	Not given	
Variegated Fairy-wren	Malurus lamberti	Not given	
Wedge-tailed Eagle	Aquila audax	Not given	
Weebill	Smicrormis brevirostris	Not given	
Welcome Swallow	Hirundo neoxena	Not given	0
Whistling Kite	Haliastur sphenurus	Not given	
White-bellied Sea-Eagle TS/MS	Haliaeetus leucogaster	Not given	0
White-browed Scrubwren	Sericornis frontalis	Not given	
White-faced Heron	Egretta novaehollandiae	Not given	
White-naped Honeyeater	Melithreptus lunatus	Not given	
White-necked Heron	Ardea pacifica	Not given	
White-throated Treecreeper	Cormobates leucophaea	Not given	
White-winged Chough	Corcorax melanorhamphos	Not given	
Willie Wagtail	Rhipidura leucophrys	Not given	W
Yellow Thornbill	Acanthiza nana	Not given	
Yellow-faced Honeyeater	Caligavis chrysops	Not given	
Yellow-tailed Black-Cockatoo	Calyptorhynchus funereus	Not given	
Mammals			
Black Rat *	Rattus rattus	Not given	
Brown Hare *	Lepus capensis	Not given	
Cat (feral)*	Felis catus	Not given	
Chocolate Wattled Bat	Chalinolobus morio	U	
Common Brushtail Possum	Trichosurus vulpecula	Not given	
Common Ringtail Possum	Pseudocheirus peregrinus	Not given	
Common Wombat	Vombatus ursinus	Not given	
Domesticated Cattle *	Bos taurus		0
Eastern Broad-nosed Bat	Scotorepens orion	U	
Eastern Freetail-bat	Mormopterus ridei	U	
Eastern Grey Kangaroo	Macropus giganteus	Not given	0
Euro	Macropus robustus	Not given	
European Red Fox *	Vulpes vulpes	Not given	
Fallow Deer *	Darma darma	Not given	
Gould's Wattled Bat	Chalinolobus gouldii	U	
House Mouse *	Mus musculus	Not given	

Common name		Scientif	ic name	Method ob	served	
Large Bent-winged Bat ^{TS}		Miniopte	erus orianae oceanensis	U		
Large-eared Pied Bat TS		Chalino	lobus dwyeri	U		
Large Forest Bat		Vespade	elus darlingtoni	UPO		
Little Bent-winged Bat TS		Miniopte	erus australis	UPO		
Little Forest Bat		Vespade	elus vulturnus	U		
Long-eared Bat		Nyctoph	nilus sp.	U		
Rabbit *		Oryctola	agus cuniculus	Not given		
Ride's Freetail-bat		Ozimop	s ridei	U		
Short-beaked Echidna		Tachygl	ossus aculeatus	Not given		
Sugar Glider		Petauru	s breviceps	Not given		
Swamp Wallaby		Wallabia	a bicolor	Not given		
White-striped Mastiff-bat		Austron	omus australis	U		
Reptiles						
Bar-sided Skink		Eulampi	rus tenius	Not given		
Blackish Blind Snake		Anilios r	nigrescens	Not given		
Delicate Skink		Lampro	pholis delicata	Not given		
Eastern Blue Tongue Liza	ard	Tiliqua s	scincoides	Not given		
Eastern Long-necked Tur	tle	Chelodi	na longicollis	Not given		
Eastern Water Dragon		Intellaga	ama lesueurii	Not given		
Eastern Water Skink		Eulampi	rus quoyii	Not given		
Elegant Snake-eyed Skin	k	Cryptob	lepharus pulcher	Not given		
Grass Skink		Lampro	pholis guichenoti	Not given		
Red-bellied Black Snake		Pseude	chis porphyriacus	Not given		
Three-toed Skink		Saiphos	equalis	Not given		
Amphibians		-				
Bleating Tree Frog		Litoria d	lentata	Not given		
Common Eastern Froglet		Crinia si	ignifera	Not given	W	
Dwarf Tree Frog		Litoria fa	allax	Not given		
Eastern Banjo Frog		Limnody	nastes dumerilii	Not given		
Peron's Tree Frog		Litoria p	eronii	Not given		
Striped Marsh Frog		Limnody	nastes peronii	Not given		
Verreaux's Frog		Litoria v	erreauxii	Not given	W	
Mollusc						
Cumberland Plain Land S	Snail ^{TS}	Meridolı	um corneovirens	Not given ^{PO}		
Brown Garden Snail *		Cornu a	spersum	Not given		
Note: * indicates introduced species TS indicates threatened species MS indicates Migratory species All species listed are identified to a high level of certainty unless otherwise noted as: PR indicates species identified to a 'probable' level of certainty – more likely than not PO indicates species identified to a 'possible' level of certainty – low-moderate level of confidence						
E - Nest/roost	H - Hair/feathers/sk		P - Scat	W - Heard call		
F-Tracks/scratchings	K- Dead		Q- Camera	X- In scat		
FB - Burrow G - Crushed cones	O - Observed OW- Obs & heard o	call	T - Trapped/netted U- Anabat/ultrasound	Y - Bone/teeth/s Z- In raptor/owl		
	OW ODS & Health C				ponot	

Appendix 2. Threatened Flora & Fauna Habitat Assessment

Threatened flora species habitat assessment

					ŀ	f not record	ed on site	
Scientific name DATABASE SOURCE	BC Act	EPBC Act	Growth form and habitat requirements Distribution limit	Recorded on site (y/n)	Suitable habitat present (y/n)	Nearby and / or high number of record(s) (y/n) Notes 1,2 & 3	Record(s) from recent years (y/n) Notes 1,2 & 3	Potential to occur
Acacia bynoeana EPBC	E1	V	Erect or spreading shrub to 0.3 m high growing in heath and dry sclerophyll open forest on sandy soils. Often associated with disturbed areas such as roadsides. <i>Distribution limits N-Newcastle S-Berrima.</i>	no	no	n/a	n/a	no
Acacia pubescens	V	V	Spreading shrub 1-4 m high open sclerophyll growing in open forest and woodlands on clay soils. <i>Distribution limits N-Bilpin S-Georges River.</i>	no	marginal	no	n/a	no
Allocasuarina glareicola ^{EPBC}	E1	E	Small shrub 1-2 m high growing in open sclerophyll forest on lateritic soils derived from tertiary alluviums. <i>Distribution limits Castlereagh NR region</i> .	no	no	n/a	n/a	no
Cynanchum elegans DPIE EPBC	E1	Е	Climber or twiner to 1m. Grows in rainforest gullies, scrub & scree slopes. Distribution limits N-Gloucester S-Wollongong.	no	no	n/a	n/a	no
Epacris purpurascens var. purpurascens ^{DPIE}	V	-	Erect shrub to 1.5 m high growing in sclerophyll forest and scrub and near creeks and swamps on sandstone. <i>Distribution limits N-Gosford S-Blue Mountains</i> .	no	no	n/a	n/a	no
Eucalyptus benthamii DPIE EPBC	V	V	Blue gum to 40 m high. Wet forest on sandy alluvial soils. <i>Distribution limits N-Yarramundi S-Bents Basin.</i>	no	Outside of study area along Nepean River embankment	yes	yes	no

					If not recorded on site				
Scientific name DATABASE SOURCE	BC Act	EPBC Act	Growth form and habitat requirements Distribution limit	Recorded on site (y/n)	Suitable habitat present (y/n)	Nearby and / or high number of record(s) (y/n) Notes 1,2 & 3	Record(s) from recent years (y/n) Notes 1,2 & 3	Potential to occur	
Genoplesium baueri EPBC	E1	Е	A terrestrial orchid that grows in sparse sclerophyll forest and moss gardens over sandstone. Flowers Feb–Mar. <i>Distribution limits</i> N – <i>Hunter Valley</i> S – <i>Nowra</i> .	no	no	n/a	n/a	no	
Haloragis exalata subsp. exalata ^{EPBC}	V	V	Shrub to 1.5 m high. Grows in damp places near watercourses. <i>Disjunctly distributed in the Central Coast, South Coast and North Western Slopes botanical subdivisions of NSW.</i>	no	no	n/a	n/a	no	
<i>Melaleuca</i> <i>biconvexa</i> ^{DPIE}	V	V	Tall shrub. Grows in wetlands adjoining perennial streams and on the banks of those streams, generally within the geological series known as the Terrigal Formation. <i>Distribution limits N-Port Macquarie S-Jervis Bay.</i>	no	no	n/a	n/a	no	
<i>Melaleuca deanei</i> EPBC	V	V	Shrub to 3 m high. Grows in heath on sandstone. <i>Distribution limits N-Gosford S-Nowra.</i>	no	no	n/a	n/a	no	
Persicaria elatior	V	V	Herb to 90 cm tall which grows in damp places especially beside streams and lakes. Occasionally in swamp forest or associated with disturbance. <i>Varied distribution from SE NSW to QLD.</i>	no	no	n/a	n/a	no	
Persoonia bargoensis EPBC	E1	V	Erect shrub to 1 m high. Grows in woodland to Dry sclerophyll forest, on sandstone and laterite. <i>Restricted to the Bargo area.</i>	no	no	n/a	n/a	no	
Persoonia hirsuta	E1	Е	Erect to decumbent shrub. Grows in dry sclerophyll forest and woodland on Hawkesbury sandstone with infrequent fire histories. <i>Distribution limits N-Glen Davis S-Hill Top.</i>	no	no	n/a	n/a	no	

					If not recorded on site			
Scientific name DATABASE SOURCE	BC Act	EPBC Act	Growth form and habitat requirements Distribution limit	Recorded on site (y/n)	Suitable habitat present (y/n)	Nearby and / or high number of record(s) (y/n) Notes 1,2 & 3	Record(s) from recent years (y/n) Notes 1,2 & 3	Potential to occur
Pimelea spicata	E1	E	Decumbent or erect shrub to 0.5 m high. Occurs principally in woodland on soils derived from Wianamatta Shales. <i>Distribution limits N-Lansdowne S-Shellharbour.</i>	no	yes	Many records 3-4km south- east	yes	yes
Pomaderris brunnea DPIE EPBC	V	V	Shrub to 3 m high. Confined to Upper Nepean and Colo Rivers where it grows in open forest.	no	Outside of study area along Nepean River embankment	Many records 3km south- west	yes	no
Pterostylis saxicola	E1	Е	Terrestrial orchid. Grows in shallow sandy soil above rock shelves, usually near Wianamatta / Hawkesbury transition. <i>Distribution limits N-Hawkesbury River S-Campbelltown</i> .	no	no	n/a	n/a	no
Pultenaea pedunculata ^{DPIE}	E1	-	Prostrate shrub. Grows in dry sclerophyll forest and disturbed sites. <i>Confined to Prestons and Villawood in NSW.</i>	no	yes	yes	yes	yes
Rhizanthella slateri	V	Е	Underground orchid that is poorly known. Grows in sclerophyll forests. Usually only seen if the soil is disturbed. Flowers in Oct – Nov.	no	no	n/a	n/a	no
Rhodamnia rubescens DPIE EPBC	E4A	CE	Shrub or small tree to 25 m high found in rainforest and riparian vegetation along the coast and up to 600 m ASL. Flowers in late winter through to spring, with a peak in October, and fruits typically begin to appear in December in the Sydney region. Distribution limits N-Tweed Heads S-Batemans Bay.	no	no	n/a	n/a	no

						I	f not record	ed on site	
Scientific		BC Act	EPBC Act	Growth form and habitat requirements Distribution limit	Recorded on site (y/n)	Suitable habitat present (y/n)	Nearby and / or high number of record(s) (y/n) Notes 1,2 & 3	Record(s) from recent years (y/n) Notes 1,2 & 3	Potential to occur
Syzygium paniculatum DPIE EPBC	n	V	V	Small tree. Subtropical and littoral rainforest on sandy soil. <i>Distribution limits N-Forster S-Jervis Bay.</i>	no	no	n/a	n/a	no
Thelymitra s 'Kangaloon' (Thelymitra kangaloonic EPBC	,	E4A	CE	A terrestrial orchid with dark blue flowers, presented in mid-late spring. <i>Only known from the Robertson area in the Southern Highlands.</i> Often in association with the endangered ecological community <i>Temperate Highland Peat Swamps on Sandstone.</i>	no	no	n/a	n/a	no
Thesium au DPIE EPBC	ıstrale	V	V	Erect herb to 0.4 m high. Root parasite. Themeda grassland or woodland often damp. <i>Distribution limits N-Tweed Heads S-south of Eden.</i>	no	unlikely	1 record within 10km	Record from 1803	no
DPIE	- Denote	s specie	es listed	within 10km of the development footprint on the Atlas of NSW Wildlife	9				
EPBC	- Denote	s specie	es listed	within 10km of the development footprint in the EPBC Act habitat sea	arch				
V	- Denote	s vulner	able liste	ed species under the relevant Act					
E or E1	- Denotes endangered listed species under the relevant Act								
E4a or CE	- Denote	s critica	lly endar	ngered listed species under the relevant Act					
NOTE:	2. 'record	ls' refer	to those	ered if no suitable habitat is present within the development footprint e provided by the <i>Atlas of NSW Wildlife</i> fords are species specific accounting for home range, dispersal ability	and life cycle)			

Threatened fauna species habitat assessment

					If not rec	orded on si	ite	
Common name Scientific name Database source	BC Act	EPBC Act		Recorded on site (y/n)	Suitable habitat present (y/n)	Nearby and/or high number of record(s) (y/n) Notes 1,2 & 3	Record(s) from recent years (y/n) Notes 1,2 & 3	Potential to occur
Giant Burrowing Frog <i>Heleioporus</i> australiacus DPIE EPBC	V	V	Inhabits open forests and riparian forests along non-perennial streams, digging burrows into sandy creek banks. <i>Distribution limit: N-Near Singleton S-South of Eden.</i>	N	N	N	Ν	Not likely
Green and Golden Bell Frog <i>Litoria aurea</i> DPIE EPBC	E	V	Prefers the edges of permanent water, streams, swamps, creeks, lagoons, farm dams and ornamental ponds. Often found under debris. <i>Distribution limit: N-Byron Bay S-South of Eden.</i>	Ν	Y	N	Y	Low
Southern Bell Frog Litoria raniformis	Е	V	Prefers the edges of permanent water, streams, swamps, creeks, lagoons, farm dams and ornamental ponds. Often found under debris. <i>Distribution limit: N-ACT Bay. S-Albury.</i>	Ν	Y	Ν	Ν	Unlikely
Broad-headed Snake Hoplocephalus bungaroides EPBC	E	V	Sandstone outcrops, exfoliated rock slabs and tree hollows in coastal and near coastal areas. <i>Distribution limit: N-Mudgee Park. S-Nowra.</i>	N	N	N	Ν	Not likely
Blue-billed Duck <i>Oxyura australis</i> DPIE	V	-	A completely aquatic species occurring mainly throughout the Murray- Darling basin in cool to warm temperate deep permanent freshwater lakes, lagoons and swamps with extensive reed-beds. <i>Distribution limit: N-</i> <i>Tenterfield. S-Albury.</i>	Ν	Y	Y	Ν	Low
Freckled Duck Stictonetta naevosa	V	-	Occurs mainly within the Murray-Darling basin and the channel country within large cool temperate to sub-tropical swamps, lakes and floodwaters with cumbungi, lignum or melaleucas. <i>Distribution limit: N- Tenterfield. S-Albury.</i>	Y	Y	Y	Y	Y
Black-necked Stork Ephippiorhynchus asiaticus	E	-	Occurs in tropical to warm temperate terrestrial wetlands, estuarine and littoral habitats such as mangroves, tidal mudflats, floodplains, open woodlands, irrigated lands, bore drains, sub-artesian pools, farm dams and sewerage ponds. <i>Distribution limit: N-Tweed Heads. S-Nowra.</i>	Ν	Y	Ν	Ν	Not likely

DPIE								
Australasian Bittern <i>Botaurus</i> <i>poiciloptilus</i> DPIE EPBC	E	E	Found in or over water of shallow freshwater or brackish wetlands with tall reedbeds, sedges, rushes, cumbungi, lignum and also in ricefields, drains in tussocky paddocks, occasionally saltmarsh, brackish wetlands. <i>Distribution limit: N-North of Lismore. S- Eden.</i>	Ν	Y	Y	N	Low
White-bellied Sea Eagle (<i>Haliaeetus leucogaster</i>) DPIE EPBC	V	-	Occupies coasts, islands, estuaries, inlets, large rivers, inland lakes and reservoirs. Sedentary; dispersive. N-Tweed Heads. S-South of Eden.	Y (OEH 2016)	Y	Y	Y	Y
Little Eagle <i>Hieraaetus</i> <i>morphnoides</i> ^{DPIE}	V	-	Utilises plains, foothills, open forests, woodlands and scrublands; river red gums on watercourses and lakes. <i>Distribution limit - N-Tweed Heads. S-South of Eden.</i>	Y (OEH 2016)	Y	Y	Y	Y
Square-tailed Kite Lophoictinia isura	V	-	Utilises mostly coastal and sub-coastal open forest, woodland or lightly timbered habitats and inland habitats along watercourses and mallee that are rich in passerine birds. <i>Distribution limit: N-Goondiwindi. S-South of Eden.</i>	Ν	Y	N	Y	Low
Eastern Osprey Pandion cristatus EPBC	V	-	Utilises waterbodies including coastal waters, inlets, lakes, estuaries and offshore islands with a dead tree for perching and feeding. <i>Distribution limit: N</i> - <i>Tweed Heads. S</i> - <i>South of Eden.</i>	Ν	Y	N	Ν	Unlikely
Grey Falcon <i>Falco hypoleucos</i> ^{EPBC}	V	-	Occurs over mainly inland drainage systems of open plains and lightly timbered country including the acacia scrub, spinifex and tussock grasslands. <i>Distribution limit: N-Mullumbimby. S-Bega.</i>	Ν	Y	N	Ν	Not likely
Red Knot <i>Calidris canutus</i> ^{DPIE}	-	Е	The red knot is a small to medium migratory shorebird. During the non- breeding season in Australasia, the red knot mainly inhabit intertidal mudflats, sandflats and sandy beaches of sheltered coasts and sometimes on sandy ocean beaches or shallow pools on exposed rock platforms. They are occasionally seen on terrestrial saline wetlands near the coast and on sewage ponds and saltworks	Ν	Y	Y	Ν	Low
Gang-gang Cockatoo <i>Callocephalon fimbriatum</i> ^{DPIE}	V	-	Prefers wetter forests and woodlands from sea level to > 2,000m on the Great Dividing Range, timbered foothills and valleys, timbered watercourses, coastal scrubs, farmlands and suburban gardens. <i>Distribution limit: mid north coast of NSW to western Victoria.</i>	Ν	Y	Y	Y	Y

Glossy Black- Cockatoo <i>Calyptorhynchus</i> <i>lathami</i> ^{DPIE}	V	-	Open forests with Allocasuarina species and hollows for nesting. Distribution limit: N-Tweed Heads. S-South of Eden.	Ν	Y	N	N	Not likely
Little Lorikeet Glossopsitta pusilla DPIE	V	-	Inhabits forests, woodlands; large trees in open country; timbered watercourses, shelterbeds, and street trees. <i>Distribution limit: N-Tweed Heads. S-South of Eden.</i>	Y (OEH 2016)	Y	Y	Y	Y
Swift Parrot Lathamus discolour	E	E	Inhabits eucalypt forests and woodlands with winter flowering eucalypts. Distribution limit: N-Border Ranges National Park. S-South of Eden.	Ν	Y	Y	Y	Y
Turquoise Parrot <i>Neophema</i> <i>pulchella</i> _{DPIE}	V	-	Inhabits coastal scrubland, open forest and timbered grassland, especially ecotones between dry hardwood forests and grasslands. <i>Distribution limit: N-Near Tenterfield. S-South of Eden.</i>	Ν	Y	Y	N	Low
Barking Owl Ninox connivens	V	-	Inhabits principally woodlands but also open forests and partially cleared land and utilises hollows for nesting. <i>Distribution limit: N-Border Ranges National Park. S-Eden.</i>	Ν	Y	N	N	Unlikely
Powerful Owl <i>Ninox strenua</i> DPIE	V	-	Forests containing mature trees for shelter or breeding and densely vegetated gullies for roosting. <i>Distribution limits: N-Border Ranges National Park. S-Eden.</i>	Y (OEH 2016)	Y	Y	Y	Y
Masked Owl <i>Tyto</i> novaehollandiae ^{DPIE}	V	-	Open forest and woodlands with cleared areas for hunting and hollow trees or dense vegetation for roosting. <i>Distribution limit: N-Border Ranges National Park. S-Eden.</i>	Ν	Y	N	N	Unlikely
White-throated Needletail ^{MS} <i>Hirundapus</i> <i>caudacutus</i> <i>DPIE EPBC</i>	-	V	Airspace over forests, woodlands, farmlands, plains, lakes, coasts, towns; companies often forage along favoured hilltops and timbered ranges. Breeds Siberia, Himalayas, east to Japan. Summer migrant to eastern Australia. <i>Distribution limit: N-Tweed Heads. S-South of Eden.</i>	Ν	Y	Ν	Ν	Unlikely
Brown Treecreeper Climacteris picumnus victoriae DPIE	V	-	Occupies eucalypt woodlands, open woodland lacking a dense understorey with fallen dead timber. <i>Distribution limit: (Sub species victoriae) Central</i> <i>NSW west of Great Div. Cumberland Plains, Hunter Valley, Richmond,</i> <i>Clarence, and Snowy River Valleys.</i>	Ν	Y	Y	Y	Y

Speckled Warbler Chthonicola sagittata DPIE	V	-	Found in temperate eucalypt woodland and open forest including forest edges, wooded farmland and urban areas with mature eucalypts. <i>Distribution limit: N-Urbanville. S-Eden.</i>	Y (OEH 2016)	Y	Y	Υ	Y
Regent Honeyeater <i>Xanthomyza</i> <i>Phrygia</i> ^{DPIE EPBC}	E4A	CE	Found in temperate eucalypt woodland and open forest including forest edges, wooded farmland and urban areas with mature eucalypts. <i>Distribution limit: N</i> - <i>Urbanville. S</i> - <i>Eden.</i>	Ν	Y	N	Y	Low
Painted Honeyeater <i>Grantiella picta</i> ^{EPBC}	V	V	A nomadic bird occurring in low densities within open forest, woodland and scrubland feeding on mistletoe fruits. Inhabits primarily Boree, Brigalow and Box-Gum Woodlands and Box-Ironbark Forests. <i>Distribution limit: N-Boggabilla. S-Albury with greatest occurrences on the inland slopes of the Great Dividing Range.</i>	Ν	Y	Ν	Ν	Unlikely
Black-chinned Honeyeater <i>Melithreptus gularis</i> gularis DPIE	V	-	Found in woodlands containing box-ironbark associations and River Red Gums, also drier coastal woodlands of the Cumberland Plain and Hunter Richmond and Clarence. <i>Distribution limit: N-Cape York Pen. Qld. S-Victor H. Mt Lofty Ra & Flinders Ra. SA.</i>	Ν	Y	N	N	Unlikely
Varied Sittella Daphoenositta chrysoptera DPIE	V	-	Open eucalypt woodlands / forests (except heavier rainforests); mallee, inland acacia, coastal tea-tree scrubs; golf courses, shelterbelts, orchards, parks, scrubby gardens. <i>Distribution limit: N-Border Ranges National Park. S-South of Eden.</i>	Y (OEH 2016)	Y	Y	Υ	Y
Dusky Woodswallow <i>Artamus</i> <i>cyanopterus</i> cyanopterus ^{DPIE}	V	-	Found in woodlands and dry open sclerophyll forests, usually dominated by eucalypts, including mallee associations. It has also been recorded in shrublands and heathlands and various modified habitats, including regenerating forests; very occasionally in moist forests or rainforests. Prefers habitat with an open understorey. Often observed in farmland tree patches or roadside remnants. <i>Widespread in eastern, southern and south-western</i> <i>Australia</i> .	Y (OEH 2016)	Y	Y	Y	Y
Hooded Robin <i>Melanodryas</i> <i>cucullata cucullata</i> ^{DPIE}	V	-	Found in eucalypt woodlands, <i>Acacia</i> scrubland, open forest, and open areas adjoining large woodland blocks, with areas of dead timber. <i>Distribution limit: N-Central Qld. S-Spencer Gulf SA.</i>	Ν	Y	Y	N	Low
Scarlet Robin Petroica boodang DPIE	V	-	Found in foothill forests, woodlands, watercourses; in autumn-winter, more open habitats: river red gum woodlands, golf courses, parks, orchards, gardens. <i>Distribution limit: N-Tweed Heads. S-South of Eden.</i>	Ν	Y	Y	Y	Y

Flame Robin <i>Petroica phoenicea</i> ^{DPIE}	V	-	Summer: forests, woodlands, scrubs, from sea-level to <i>c.</i> 1800 m. Autumn- winter: open woodlands, plains, paddocks, golf courses, parks, orchards. <i>Distribution limit: N northern NSW tablelands. S-South of Eden.</i>	Ν	Y	Y	Ν	Low
Diamond Firetail Stagonopleura guttata ^{DPIE}	V	-	Found in eucalypt woodlands, forests and mallee where there is grassy understorey west of the Great Div. also drier coastal woodlands of the Cumberland Plain and Hunter Richmond and Clarence River Valleys. <i>Distribution limit: N-Rockhampton Q. S-Eyre Pen Kangaroo Is. SA.</i>	Ν	Y	Y	N	Low
Spotted-tailed Quoll Dasyurus maculatus DPIE EPBC	V	Е	Dry and moist open forests containing rock caves, hollow logs or trees. Distribution limit: N-Mt Warning National Park. S-South of Eden.	Ν	Y	Ν	Ν	Unlikely
Koala <i>Phascolarctos</i> <i>cinereus</i> ^{DPIE EPBC}	V	V	Inhabits both wet and dry eucalypt forest on high nutrient soils containing preferred feed trees. <i>Distribution limit: N-Tweed Heads. S-South of Eden.</i>	Ν	Y	Y	Y	Y
Eastern Pygmy Possum <i>Cercatetus nanus</i> ^{DPIE}	V	-	Found in a variety of habitats from rainforest through open forest to heath. Feeds on insects but also gathers pollen from banksias, eucalypts and bottlebrushes. Nests in banksias and myrtaceous shrubs. <i>Distribution limit:</i> <i>N-Tweed Heads. S-Eden.</i>	Ν	N	Ν	N	Not likely
Squirrel Glider Petaurus norfolcensis DPIE	V	-	Mixed aged stands of eucalypt forest & woodlands including gum barked & high nectar producing species & hollow bearing trees. <i>Distribution limit: N-Tweed Heads. S-Albury.</i>	Ν	Y	Ν	Ν	Unlikely
Greater Glider Petauroides volans DPIE EPBC	-	V	Favours forests with a diversity of eucalypt species, due to seasonal variation in its preferred tree species. Population density is optimal at elevation levels at 845 m above sea level. Prefer overstorey basal areas in old-growth tree stands. Highest abundance typically in taller, montane, moist eucalypt forests, with relatively old trees and abundant hollows <i>Distribution limit: N- Border Ranges National Park. S- South of Eden.</i>	Ν	Ν	Ν	N	Not likely
Brush-tailed Rock- wallaby <i>Petrogale penicillata</i> EPBC	Е	V	Found in rocky gorges with a vegetation of rainforest or open forests to isolated rocky outcrops in semi-arid woodland country. <i>Distribution limit: N-North of Tenterfield.</i> S-Bombala.	Ν	N	N	N	Not likely
Grey-headed Flying-fox	V	V	Found in a variety of habitats including rainforest, mangroves, paperbark swamp, wet and dry open forest and cultivated areas. Forms camps commonly found in gullies and in vegetation with a dense canopy. <i>Distribution limit: N-Tweed Heads. S-Eden.</i>	Ν	Y	Y	Y	Y

Pteropus poliocephalus DPIE EPBC								
Yellow-bellied Sheathtail-bat Saccolaimus flaviventris DPIE	V	-	Rainforests, sclerophyll forests and woodlands. <i>Distribution limit: N-North of Walgett.</i> S-Sydney.	N	Y	Y	Y	Y
Eastern Coastal Free-tailed Bat <i>Micronomus</i> <i>norfolkensis</i> DPIE	V	-	Inhabits open forests and woodlands foraging above the canopy and along the edge of forests. Roosts in tree hollows, under bark and buildings. <i>Distribution limit: N-Woodenbong. S-Pambula.</i>	Y (OEH 2016)	Y	Y	Y	Y
Large-eared Pied Bat <i>Chalinolobus dwyeri</i> DPIE EPBC	V	V	Warm-temperate to subtropical dry sclerophyll forest and woodland. Roosts in caves, tunnels and tree hollows in colonies of up to 30 animals. <i>Distribution limit: N-Border Ranges National Park. S-Wollongong.</i>	Y (OEH 2016)	Y	Y	Y	Y
Eastern False Pipistrelle <i>Falsistrellus</i> <i>tasmaniensis</i> DPIE	V	-	Recorded roosting in caves, old buildings and tree hollows. <i>Distribution limit: N-Border Ranges National Park. S-Pambula.</i>	Ν	Y	Y	Y	Y
Little Bent-winged Bat <i>Miniopterus</i> <i>australis</i> DPIE	V	-	Roosts in caves, old buildings and structures in the higher rainfall forests along the south coast of Australia. <i>Distribution limit: N-Border Ranges National Park. S-Sydney.</i>	Y (OEH 2016, with possible certainty)	Y	Y	Y	Y
Large Bent-winged Bat <i>Miniopterus orianae</i> <i>oceanensis</i> DPIE	V	-	Prefers areas where there are caves, old mines, old buildings, stormwater drains and well-timbered areas. <i>Distribution limit: N-Border Ranges National Park. S-South of Eden.</i>	Y (OEH 2016)	Y	Y	Y	Y
Southern Myotis Myotis macropus	V	-	Roosts in caves, mines, tunnels, buildings, tree hollows and under bridges. Forages over open water. <i>Distribution limit: N-Border Ranges National Park.</i> <i>S-South of Eden.</i>	Ν	Y	Y	Y	Y

Greater Broad- nosed Bat <i>Scoteanax rueppellii</i> DPIE	V	-	Inhabits areas containing moist river and creek systems, especially tree lined creeks. <i>Distribution limit: N-Border Ranges National Park. S-Pambula.</i>	N	Y	Y	Y	Y
New Holland Mouse Pseudomys novaehollandiae ^{EPBC}	-	V	Occurs in heathlands, woodlands, open forest and paperbark swamps and on sandy, loamy or rocky soils. Coastal populations have a marked preference for sandy substrates, a heathy understorey of leguminous shrubs less than 1m high and sparse ground litter. Recolonise of regenerating burnt areas. <i>Distribution limit: N-Border Ranges National Park. S-South of Eden.</i>	Ν	N	N	Ν	Not likely
Cumberland Plain Land Snail <i>Meridolum</i> corneovirens DPIE	E	-	Inhabits remnant eucalypt woodland of the Cumberland Plan. Shelters under logs, debris, clumps of grass, around base of trees and burrowing into loose soil. <i>Distribution limit: Cumberland Plain of Sydney Basin Bioregion.</i>	Y (OEH 2016, with possible certainty)	Y	Y	Y	Y
Dural Land Snail <i>Pommerhelix</i> <i>duralensis</i> ^{DPIE EPBC}	Е	E	Occurs on shale-sandstone transitional forest landscapes within the Blue Mountains, Penrith, The Hills, Wollondilly, Hornsby and Parramatta LGA's. Occurs in low abundance and shelters under rocks or inside curled-up bark, beneath leaves and light woody debris. <i>Distribution limit: St Albans to Mulgoa with most records from The Hills LGA</i> .	N	Y	N	Y	Low
DPIE - Denot	es species	s listed w	vithin 10km of the development footprint on the Atlas of NSW Wil	ldlife				
	•		vithin 10km of the development footprint in the EPBC Act habitat					
			es considered by Travers bushfire & ecology to have potential ha	abitat based of	on regional	knowledge a	nd other recor	ds
			d species under the relevant Act					
		•	ed species under the relevant Act					
			gered listed species under the relevant Act					
NOTE: 2. 'reco	 This field is not considered if no suitable habitat is present within the development footprint 'records' refer to those provided by the <i>Atlas of NSW Wildlife</i> 'nearby' or 'recent' records are species specific accounting for home range, dispersal ability and life cycle 							
Not likely Means	0% chang	e of occu	urring, despite there being potential habitat. A test of significance	is not applie	d to these s	pecies.		

The table below provides an assessment of potential habitat within the study area for nationally *protected* migratory fauna species recorded within 10 km on the *EPBC Act* Protected Matters Tool. Nationally *threatened* migratory species are instead considered above.

Protected migratory bird habitat assessment

Common name Scientific name	Preferred habitat <i>Migratory breeding</i>	Suitable habitat present (y/n)	Recorded on site (y/n)	Comments
Oriental Cuckoo (<i>Cuculus optatus</i>)	Mainly inhabits forests, occurring in coniferous, deciduous and mixed forest. It feeds mainly on insects and their larvae, foraging for them in trees and bushes as well as on the ground.	Y	Ν	
Osprey (<i>Pandion haliaetus</i>)	Occur in littoral and coastal habitats and terrestrial wetlands of tropical and temperate Australia and offshore islands. They are mostly found in coastal areas but occasionally travel inland along major rivers, particularly in northern Australia. They require extensive areas of open fresh, brackish or saline water for foraging. They frequent a variety of wetland habitats including inshore waters, reefs, bays, coastal cliffs, beaches, estuaries, mangrove swamps, broad rivers, reservoirs and large lakes and waterholes. They exhibit a preference for coastal cliffs and elevated islands in some parts of their range, but may also occur on low sandy, muddy or rocky shores and over coral cays. They may occur over atypical habitats such as heath, woodland or forest when travelling to and from foraging sites. Eastern Ospreys occur sympatrically and sometimes interact with White-bellied Sea-Eagles.	Y	N	
White-throated Needletail (<i>Hirundapus caudacutus</i>)	Airspace over forests, woodlands, farmlands, plains, lakes, coasts, towns; companies often forage along favoured hilltops and timbered ranges. <i>Breeds Siberia, Himalayas, east to Japan. Summer migrant to eastern Australia.</i>	Y	N	
Fork-tailed Swift (Apus pacificus)	Aerial: over open country, from semi-arid deserts to coasts, islands; sometimes over forests, cities. Breeds Siberia, Himalayas, east to Japan south east Asia. Summer migrant to east Australia. Mass movements associated with late summer low pressure systems into east Australia. Otherwise uncommon.	Y	N	-
Rainbow Bee-eater (<i>Merops ornatus</i>)	Open woodlands with sandy, loamy soil; sandridges, sandspits, riverbanks, road cuttings, beaches, dunes, cliffs, mangroves, rainforest, woodlands, golf courses. <i>Breeding resident in northern Australia. Summer breeding migrant to south east and south west Australia.</i>	Y	N	
Black-faced Monarch (Monarcha melanopsis)	Rainforests, eucalypt woodlands; coastal scrubs; damp gullies in rainforest, eucalypt forest; more open woodland when migrating. <i>Summer breeding migrant to coastal south east Australia, otherwise uncommon.</i>	Y	Ν	
Spectacled Monarch (Monarcha trivirgatus)	Understorey of mountain / lowland rainforest, thickly wooded gullies, waterside vegetation, mostly well below canopy. Summer breeding migrant to south-east Qld and north-east NSW down to Port Stephens from Sept / Oct to May. Uncommon in southern part of range.	Ν	Ν	-

Common name Scientific name	Preferred habitat <i>Migratory breeding</i>	Suitable habitat present (y/n)	Recorded on site (y/n)	Comments
Satin Flycatcher (<i>Myiagra cyanoleuca</i>)	Heavily vegetated gullies in forests, taller woodlands, usually above shrub-layer; during migration, coastal forests, woodlands, mangroves, trees in open country, gardens. <i>Breeds mostly south-east Australia and Tasmania over warmer months, winters in north east Qld.</i>	Y	N	-
Rufous Fantail (<i>Rhipidura rufifrons</i>)	Undergrowth of rainforests / wetter eucalypt forests / gullies; monsoon forests, paperbarks, sub- inland and coastal scrubs; mangroves, watercourses; parks, gardens. On migration, farms, streets buildings. Breeding migrant to south-east Australia over warmer months. Altitudinal migrant in north-east NSW in mountain forests during warmer months.	Y	Y	
Yellow Wagtail (<i>Motacilla flava</i>)	The yellow wagtail typically forages in damp grassland and on relatively bare open ground at edges of rivers, lakes and wetlands, but also feeds in dry grassland and in fields of cereal crops.	Y	Ν	-
Painted Snipe (<i>Rostratula australis</i>)	Generally inhabits shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps and claypans. They also use inundated or waterlogged grassland or saltmarsh, dams, rice crops, sewage farms and bore drains. Typical sites include those with rank emergent tussocks of grass, sedges, rushes or reeds, or samphire; often with scattered clumps of lignum or canegrass or sometimes tea-tree. The Australian Painted Snipe sometimes utilises areas that are lined with trees, or that have some scattered fallen or washed-up timber. Breeding habitat requirements may be quite specific: shallow wetlands with areas of bare wet mud and both upper and canopy cover nearby. Nest records are all, or nearly all, from or near small islands in freshwater wetlands, provided that these islands are a combination of very shallow water, exposed mud, dense low cover and sometimes some tall dense cover. Has also been recorded nesting in and near swamps, canegrass swamps, flooded areas including samphire, grazing land, among cumbungi, sedges, grasses, salt water couch (<i>Paspalum</i>), saltbush (<i>Halosarcia</i>) and grass, also in ground cover of water-buttons and grasses, at the base of tussocks and under low saltbush.	Ν	Ν	