# Flora and Fauna Assessment 81 Keyes Road, Ashbourne

# Prepared for Ashbourne Landcare Group



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## **1.0** INTRODUCTION

#### 1.1 Background

In 2021, the Ashbourne Landcare Group commissioned the author to conduct flora and fauna assessments across twelve private properties occurring within the Ashbourne district. The project was funded by a grant provided by the North Central Catchment Management Authority (NCCMA).

The surveys confirmed that the private lands across the Ashbourne district are of very high conservation significance. The following ecological values were recorded across the 12 properties:

- 306 separate plant species, 220 which are indigenous and 86 introduced,
- 59 separate bird species,
- eight plant species listed as *Endangered* or *Critically Endangered* under the Flora and Fauna Guarantee List,
- numerous plant species of regional significance,
- 43 of the plant species observed have not previously been (officially) recorded in the area according to a 10km radius search of the Victorian Biodiversity Atlas (VBA). Twenty-five of these are indigenous and 18 are introduced.

This report presents the results of the flora and fauna assessment at 81 Keyes Road, Ashbourne. It provides a list of the flora and fauna species that were recorded, a description of vegetation and habitat values and some recommendations for the maintenance and enhancement of ecological values.

#### 1.2 Study area

The property at 81 Keyes Road is approximately 16.3 hectares in size. The majority of the property supports bushland, with the exception of small clearings in the eastern-central areas. A house and garden area are located in the northern portion of the property whilst a dam is located to the west. The property backs onto the Wombat State Forest.

#### 1.3 Methods

81 Keyes Road was assessed for approximately three hours on the 3<sup>rd</sup> of December 2021. All areas of bushland were traversed on foot and a list was compiled of all flora and fauna species observed. For fauna, most species were recorded from identification of calls (e.g. birds, frogs) or scats and tracks (e.g. Bare-nosed Wombat). Notes were taken on the vegetation, habitat features and management issues, whilst photographs were taken of representative areas.

# 2.0 RESULTS

#### 2.1 Flora species

During the December 2021 survey, a total of 94 flora species were recorded at 81 Keyes Road (see Appendix 1). Of these, 71 are indigenous species and 23 are introduced. Three of the recorded species are listed as threatened under the Flora and Fauna Guarantee Act 1988 and two are considered to be of regional significance (see Table 1 and Figure 1), including:

- At least 30 Yarra Gum (*Eucalyptus yarraensis*), scattered along the entire eastern portion of the property. Yarra Gum (*Eucalyptus yarraensis*) is listed as a threatened species under the Victorian Flora and Fauna Guarantee (FFG) Act 1988. The Ashbourne area supports many populations of this rare species.
- Several plants of Large-leaf Cinnamon Wattle (*Acacia leprosa* var. *uninervia*) near the eastern boundary. This species is listed as a threatened species under the Victorian Flora and Fauna Guarantee (FFG) Act 1988. Large-leaf Cinnamon Wattle is not common in the western half of Victoria.
- One patch of Swamp Everlasting (*Coronidium gunnianum*). This species is listed as a threatened species under the Victorian Flora and Fauna Guarantee (FFG) Act 1988. Swamp Everlasting is very uncommon the region.
- The regionally significant Thread Speedwell (*Veronica subtilis*) and Yellow Sebaea (*Sebaea ovata*). The Thread Speedwell is very rare in the western half of Victoria and has previously only been found in one other location in the region.

Table 1 Significant flora	pecies recorded at 81 Key	yes Road, December 2021
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Scientific Name	Common Name	Status
Acacia leprosa var. uninervia	Large-leaf Cinnamon Wattle	FFG
Coronidium gunnianum	Swamp Everlasting	FFG
Eucalyptus yarraensis	Yarra Gum	FFG
Sebaea ovata	Yellow Sebaea	Regional
Veronica subtilis	Thread Speedwell	Regional

**FFG** – listed as a threatened species under the Flora and Fauna Guarantee Act 1988. **Regional** – considered to be of regional significance.

#### 2.2 Vegetation description

The vegetation of the property is dominated by Messmate (*Eucalyptus obliqua*), Narrow-leaf Peppermint (*Eucalyptus radiata*) and Candlebark (*Eucalyptus rubida*) on the upper slopes and by Yarra Gum (*Eucalyptus yarraensis*) and Swamp Gum (*Eucalyptus ovata*) on the wetter flats in the central section. The understorey supports a range of ferns, shrubs, sedges, grasses, orchids and forbs including Austral Bracken (*Pteridium esculentum*), Silver Wattle (*Acacia dealbata*), Blackwood (*Acacia melanoxylon*), Prickly Moses (*Acacia verticillata*), Gorse Bitter-pea (*Daviesia ulicifolia subsp. ruscifolia*), Red-anther Wallaby-grass (*Rytidosperma pallidum*), Showy Violet (*Viola betonicifolia*), Slender Sun-orchid (*Thelymitra pauciflora s.s*), Common Bird-orchid (*Chiloglottis valida*) and Prickly Woodruff (*Asperula scoparia*).

The dam in the northern portion of the property is fringed by a variety of wetland plants including Floating Club-sedge (*Isolepis fluitans*), Broad-leaf Rush (*Juncus planifolius*) and Swamp Isotome (*Isotoma fluviatilis ssp. australis*).



Plate 1 Significant flora species recorded at 81 Keyes Road, December 2021.



Plate 2 The rare Yarra Gum (Eucalyptus yarraensis) in the southern area of the property.

#### 2.3 High threat weeds

Of the weeds recorded within the property, two are considered to be high threat species that are recommended for control. These species are listed in Table 2 below. Common Blackberry was mostly scattered at low density while an infestation of mature Gorse occurs around the dam.

Scientific Name	Common Name
Rubus anglocandicans	Common Blackberry
Ulex europaeus	Gorse

#### 2.4 Fauna

During the December 2021 survey, a total of 32 fauna species were recorded, including 27 bird, one frog and four mammal species (see Appendix 2). The property would support a much greater diversity of fauna species, however due to the high mobility and cryptic nature of many species, it would take a survey across multiple years and seasons to prepare a detailed list.

Habitat features observed within the property included:

- Several large trees with hollows. These trees are essential for many local birds and mammals which rely on hollows for breeding.
- Scattered small to large logs. These are important for fauna that live or feed at ground level to provide cover from predators. Large-old logs often have hollows that may be utilised for shelter and nesting.
- Healthy litter layer, including sticks, leaves, bark and humus. A healthy litter lay is essential for many insects.
- Diverse plant communities, providing food and habitat for various mammals, birds, insects and other fauna. Plant communities with many different species are better quality habitat than low diverse communities due to the variation in different flowers that attract specific insects. They are also more structurally diverse and provide better cover and shelter.
- The dam in the northern portion, providing habitat for frog species which rely on water for breeding, as well as a small diversity of water-bugs. The dam is also a source of drinking water for mammals and birds.

The property is connected to extensive areas of bushland and is therefore an important part of a network of corridors that allow fauna to move across the landscape.

## 2.5 Management issues and recommendations

Maintaining and enhancing the ecological values of the property will require protection of the bushland and occasional management. The following actions should be considered by the landowners:

- Control of high threat weeds shown in Table 2. Smaller plants can be removed by hand, however larger plants may need to be cut at ground level and painted with herbicide. If the landowners wish to avoid using herbicide, plants can be regularly cut at ground level. They will continue to re-shoot but at least will be kept at a low height and will not spread further seed.
- Retention of as many logs across the bushland area as possible, particularly the larger ones.
- Additional areas for hollow dependent fauna could be provided by installing nest-boxes.
  These should target areas of the property where there are few large-old trees.

# 3.0 CONCLUSION

The property at 81 Keyes Road contains bushland of high ecological significance. A total of 94 flora species and 32 fauna species were recorded during the brief assessment, including several FFG-listed and regionally significant plant species. The property also supports important habitat for a wide variety of fauna species.

Maintaining and enhancing the ecological values of the property will require protecting the bushland areas and controlling high threat weeds.

Key to symbols	
	Introduced species
*	
#	Non-indigenous native species

Acacia leprosa var. uninervia    Large-leaf Cinnamon-wattle    Endangered      Acacia verticillata subsp. verticillata    Prickly Moses    Image: Surrest Surest Surest Surrest Surest Surrest Surrest Surrest Sur	Status	Scientific Name	Common Name	FFG Status
Acaena echinataSheep's BurrAcrotriche prostrataTrailing Ground-berryAcrotriche serrulataHoney-pots*Agapanthus praecox subsp. orientalisAgapanthus*Agapanthus praecox subsp. orientalisAgapanthus*Aira elegantissimaDelicate Hair-grassAsperula scoparia subsp. scopariaPrickly Woodruff*Billardiera heterophyllaBluebell Creeper*Briza minorLesser Quaking-grassBrunonia australisBlue PincushionBurchardia umbellataMilkmaidsCarex inversaKnob SedgeCarsa ina aculeata subsp. aculeataCommon Cassinia*Centaurium tenuiflorumSlender CentauryCentipeda elatinoidesCommon Mouse-earChiloglottis validaCommon Bird-orchidCoronidium gunnianumPale Swamp Everlasting*Crataegus mongyna*Hawthorn*Cytisus scopariusDaviesia leptophyllaNarrow-leaf Bitter-peaDianella admixtaBlack-anther Flax-iliyDianella admixtaBlack-anther Flax-iliyDianella admixtaBlack-anther Flax-lilyDianella auriculataTall SundewDillwynia cinerascens s.s.Grey Parrot-peaDrosera apeltata subsp. peltata spp. agg.Pale SundewPale SundewPale Sundew		Acacia leprosa var. uninervia	Large-leaf Cinnamon-wattle	Endangered
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Drosera peltata subsp. peltata spp. agg.Pale SundewEpacris impressa var. impressaCommon Heath		Dillwynia cinerascens s.s.	Grey Parrot-pea	
Epacris impressa var. impressa Common Heath		Drosera auriculata	Tall Sundew	
Epacris impressa var. impressa Common Heath		Drosera peltata subsp. peltata spp. agg.	Pale Sundew	
			Common Heath	
		Epilobium billardiereanum	Variable Willow-herb	

Status	Scientific Name	Common Name	FFG Status
	Eryngium vesiculosum	Prickfoot	
	Eucalyptus obliqua	Messmate Stringybark	
	Eucalyptus ovata	Swamp Gum	
	Eucalyptus radiata subsp. radiata	Narrow-leaf Peppermint	
	Eucalyptus rubida subsp. rubida	Candlebark	
	Eucalyptus viminalis subsp. viminalis	Manna Gum	
			Critically
	Eucalyptus yarraensis	Yarra Gum	Endangered
	Euchiton japonicus s.s.	Creeping Cudweed	
	Galium leiocarpum	Maori Bedstraw	
	Geranium sp. 5	Naked Crane's-bill	
	Gonocarpus micranthus	Creeping Raspwort	
	Gratiola peruviana	Austral Brooklime	
	Hardenbergia violacea	Purple Coral-pea	
*	Hedera hibernica	Atlantic Ivy	
*	Holcus lanatus	Yorkshire Fog	
	Hydrocotyle foveolata	Yellow Pennywort	
	Hydrocotyle laxiflora	Stinking Pennywort	
	Hydrocotyle sibthorpioides	Shining Pennywort	
	Hypericum gramineum	Small St John's Wort	
	Hypericum japonicum	Matted St John's Wort	
*	Hypochaeris radicata	Flatweed	
*	Iris pseudacorus	Yellow Flag Iris	
	Isolepis fluitans	Floating Club-sedge	
*	Isolepis levynsiana	Tiny Flat-sedge	
	Isotoma fluviatilis subsp. australis	Swamp Isotome	
	Juncus amabilis	Hollow Rush	
*	Juncus articulatus subsp. articulatus	Jointed Rush	
*	Juncus bulbosus	Bulbous Rush	
	Juncus planifolius	Broad-leaf Rush	
	Juncus subsecundus	Finger Rush	
*	Lavandula ssp.	Lavender	
*	Leontodon saxatilis subsp. saxatilis	Hairy Hawkbit	
	Lepidosperma laterale var. majus	Variable Sword-sedge	
	Leptospermum continentale	Prickly Tea-tree	
	Lomandra filiformis subsp. coriacea	Wattle Mat-rush	
	Lomandra filiformis subsp. filiformis	Wattle Mat-rush	
	Lomandra longifolia	Spiny-headed Mat-rush	
	Lomandra longifolia subsp. exilis	Cluster-headed Mat-rush	
*	Lotus subbiflorus	Hairy Bird's-foot Trefoil	
	Microlaena stipoides var. stipoides	Weeping Grass	
	Microtis unifolia	Common Onion-orchid	

Status	Scientific Name	Common Name	FFG Status
	Monotoca scoparia	Prickly Broom-heath	
	Myriophyllum crispatum	Upright Water-milfoil	
	Opercularia varia	Variable Stinkweed	
	Oxalis exilis	Shade Wood-sorrel	
*	Plantago coronopus subsp. coronopus	Buck's-horn Plantain	
	Poa labillardierei var. labillardierei	Common Tussock-grass	
	Podolepis decipiens	Showy Podolepis	
*	Prunella vulgaris	Self-heal	
	Ranunculus glabrifolius	Shining Buttercup	
	Ranunculus lappaceus	Australian Buttercup	
	Rytidosperma geniculatum	Kneed Wallaby-grass	
	Schoenus apogon	Common Bog-sedge	
	Sebaea ovata	Yellow Sebaea	
	Senecio minimus	Shrubby Fireweed	
	Solenogyne dominii	Smooth Solenogyne	
	Solenogyne gunnii	Hairy Solenogyne	
	Tetrarrhena juncea	Forest Wire-grass	
*	Trifolium dubium	Suckling Clover	
*	Trifolium subterraneum	Subterranean Clover	
	Veronica subtilis	Thread Speedwell	
*	Vicia sativa subsp. nigra	Narrow-leaf Vetch	

### Appendix 2 - - Fauna species recorded at 81 Keyes Road, December 2021

Key to symbols					
*					

Introduced species

Status	Common name	Scientific Name	Туре	FFG Status
	Australian Magpie	Cracticus tibicen	Bird	
	Australian Wood Duck	Chenonetta jubata	Bird	
	Black Wallaby	Wallabia bicolor	Mammal	
	Black-faced Cuckoo-shrike	Coracina novaehollandiae	Bird	
	Common Froglet	Crinia signifera	Frog	
	Crimson Rosella	Platycercus elegans	Bird	
	Eastern Grey Kangaroo	Macropus giganteus	Mammal	
	Eastern Spinebill	Acanthorhynchus tenuirostris	Bird	
	Eastern Yellow Robin	Eopsaltria australis	Bird	
	Fan-tailed Cuckoo	Cacomantis flabelliformis	Bird	
	Golden Whistler	Pachycephala pectoralis	Bird	
	Grey Shrike-thrush	Colluricincla harmonica	Bird	
	Laughing Kookaburra	Dacelo novaeguineae	Bird	
	Pacific Black Duck	Anas superciliosa	Bird	
	Red Fox	Vulpes vulpes	Mammal	
	Red Wattlebird	Anthochaera carunculata	Bird	
	Rufous Fantail	Rhipidura rufifrons	Bird	
	Rufous Whistler	Pachycephala rufiventris	Bird	
	Sacred Kingfisher	Todiramphus sanctus	Bird	
	Shining Bronze-Cuckoo	Chalcites lucidus	Bird	
	Short-beaked Echidna	Tachyglossus aculeatus	Mammal	
	Spotted Pardalote	Pardalotus punctatus	Bird	
	Striated Pardalote	Pardalotus striatus	Bird	
	Striated Thornbill	Acanthiza lineata	Bird	
	Sulphur-crested Cockatoo	Cacatua galerita	Bird	
	Superb Fairy-wren	Malurus cyaneus	Bird	
	White-browed Scrubwren	Sericornis frontalis	Bird	
	White-eared Honeyeater	Lichenostomus leucotis	Bird	
	White-naped Honeyeater	Melithreptus lunatus	Bird	
	White-throated Treecreeper	Cormobates leucophaea	Bird	
	White-winged Chough	Corcorax melanorhamphos	Bird	
	Yellow-faced Honeyeater	Lichenostomus chrysops	Bird	