Appendix C

Self-Assessment of Environment Effects Act Referral Triggers

Appendix C - Self-Assessment of Environment Effects Act Referral Triggers

The trigger for a referral under the EE Act is determined by criteria detailed in the Ministerial Guidelines for Assessment of Environment Effects (DSE 2006). There are two criterion categories:

- Individual criteria (meeting one of these criteria triggers the requirement for a referral)
- Combination criteria (meeting two or more of these criteria triggers the requirement for a referral)

In this assessment the proposed works are assessed against the criteria which are relevant to flora and fauna as per the scope of this ecological impact assessment[10]. Individual criteria are assessed in Table C.1 and combination criteria are assessed in Table C.2. Based on this assessment, a referral under the EE Act is triggered through meeting one individual criterion relevant to flora and fauna.

TABLE C.1: ASSESSMENT AGAINST INDIVIDUAL CRITERIA RELEVANT TO FLORA AND FAUNA

CRITERION	ASSESSMENT OF THE PROPOSED WORKS	OUTCOME
Potential clearing of 10 ha or more of native vegetation from an area that: • is of an Ecological Vegetation Class identified as endangered by the Department of Sustainability and Environment (in accordance with Appendix 2 of Victoria's Native Vegetation Management Framework); or • is, or is likely to be, of very high conservation significance (as defined in accordance with Appendix 3 of Victoria's Native Vegetation Management Framework); and • is not authorised under an approved Forest Management Plan or Fire Protection Plan	To facilitate the proposed works the following extents of native vegetation clearing are required: **14.22 ha of endangered EVCs including:** • 11 ha of mapped native vegetation patches • 0.17 ha of time-stamped native vegetation • 91 scattered trees **12.47 ha of vegetation that is of Very High Conservation Significance including:** • 12.3 ha of vegetation patches • 0.17 ha of time-stamped native vegetation It is assumed that none of the above extents are authorised under an approved Forest Management Plan or Fire Protection Plan.	Criterion met
Potential long-term loss of a significant proportion (e.g. 1 to 5 percent depending on the conservation status of the species) of known remaining habitat or population of a threatened species within Victoria	Given the fragmented and degraded nature of the Shepparton Line rail corridor, it is highly unlikely that the proposed works will result in a significant long-term loss of the remaining habitat for a threatened species or a significant proportion of the remaining population of a threatened species.	Criterion not met
Potential long-term change to the ecological character of a wetland listed under the Ramsar Convention or in 'A Directory of Important Wetlands in Australia	No Ramsar wetlands or wetlands that appear in 'A Directory of Important Wetlands in Australia' are expected to be impacted by the proposed works.	Criterion not met
Potential extensive or major effects on the health or biodiversity of aquatic, estuarine or marine ecosystems, over the long term	Given the 'waterways and wetlands measures', and 'general construction measures' mitigation measures to be implemented, is unlikely that the proposed works will result in extensive or major effects on aquatic systems.	Criterion not met

[10] Assessment assumes that all mitigation measures called for within Section 6.2 of this report are implemented.

TABLE C.2: ASSESSMENT AGAINST COMBINATION CRITERIA RELEVANT TO FLORA AND FAUNA

CRITERION	ASSESSMENT OF THE PROPOSED WORKS	OUTCOME
Potential clearing of 10 ha or more of native vegetation, unless authorised under an approved Forest Management Plan or Fire Protection Plan	To facilitate the proposed works the following extents of native vegetation clearing are required: **24.04 ha of native vegetation including:** • 20.91 ha of native vegetation patches • 0.17 ha of time-stamped native vegetation • 91 Scattered trees It is assumed that none of the above extents are authorised under an approved Forest Management Plan or Fire Protection Plan.	Criterion met
Matters listed under the Flora and Fauna Guarantee Act 1988: • potential loss of a significant area of a listed ecological community; or • potential loss of a genetically important population of an endangered or threatened species (listed or nominated for listing), including as a result of loss or fragmentation of habitats; or • potential loss of critical habitat; or • potential significant effects on habitat values of a wetland supporting migratory bird species	Given the highly disturbed and already fragmented nature of the project area, and the mitigation measures to be implemented, it is unlikely that these matters will be affected as described in the criterion.	Criterion not met

Appendix D

Flora and Fauna Species Observed

Appendix D - Flora and Fauna Species Recorded Within the Study Area

TABLE D.1: FLORA SPECIES RECORDED DURING FIELD ASSESSMENT. KEY TO ORIGIN: * = NON-INDIGENOUS; C = NOXIOUS WEED LISTED UNER THE CALP ACT. KEY TO CONSERVATION STATUS: EN = ENDANGERED; VU = VULNERABLE; P = PROTECTED SPECIES UNDER THE EPBC ACT; L = THREATENED SPECIES LISTED UNDE THE FFG ACT.

SCIENTIFIC NAME	COMMON NAME	ORIGIN	CONSERVATION STATUS			COUNT OF INDIVIDUALS TO BE REMOVED (FFG PROTECTED ONLY)
			EPBC	FFG	VICADV	
Acacia acinacea s.s.	Gold-dust Wattle			P		1000
Acacia baileyana	Cootamundra Wattle	Exotic				
Acacia dealbata	Silver Wattle					
Acacia decurrens	Early Black-wattle	Exotic				
Acacia implexa	Lightwood					
Acacia mearnsii	Black Wattle			P		200
Acacia melanoxylon	Blackwood					
Acacia montana	Mallee Wattle			P		10
Acacia paradoxa	Hedge Wattle					
Acacia provincialis	Wirilda	*				
Acacia pycnantha	Golden Wattle			P		250
Acacia saligna	Golden Wreath Wattle	Exotic				
Acacia verniciflua (1-nerved variant)	Seymour Wattle			P	vu	20
Acaena novae-zelandiae	Bidgee-widgee					
Agrostis s.l. spp.	Bent/Blown Grass					
Ajuga australis	Austral Bugle					
Alisma plantago-aquatica	Water Plantain					
Allocasuarina verticillata	Drooping Sheoak					
Alternanthera denticulata s.l.	Lesser Joyweed					
Amphibromus nervosus	Common Swamp Wallaby-grass					
Amyema spp.	Mistletoe					
Anthosachne scabra s.l.	Common Wheat-grass					
Anthoxanthum odoratum	Sweet Vernal-grass	Exotic				
Arctotheca calendula	Cape weed	Exotic				
Arthropodium spp. (s.s.)	Vanilla Lily					
Asparagus asparagoides	Bridal Creeper	Exotic; C				
Asphodelus fistulosus	Onion Weed	Exotic				
Atriplex semibaccata	Berry Saltbush					
Atriplex spp.	Saltbush					

SCIENTIFIC NAME	COMMON NAME	ORIGIN	CONSERVATION STATUS			COUNT OF INDIVIDUALS TO BE REMOVED (FFG PROTECTED ONLY)
			EPBC	FFG	VICADV	
Austrostipa mollis	Supple Spear-grass					
Austrostipa scabra	Rough Spear-grass					
Austrostipa scabra subsp. falcata	Rough Spear-grass					
Austrostipa spp.	Spear Grass					
Avena fatua	Wild Oat	Exotic				
Avena spp.	Oat	Exotic				
Bolboschoenus medianus	Marsh Club-sedge					
Bossiaea prostrata	Creeping Bossiaea					
Bothriochloa macra	Red-leg Grass					
Briza maxima	Large Quaking-grass	Exotic				
Briza minor	Lesser Quaking-grass	Exotic				
Bromus spp.	Brome					
Bulbine bulbosa	Bulbine Lily					
Bursaria spinosa	Sweet Bursaria					
Bursaria spinosa subsp. spinosa	Sweet Bursaria					
Callistemon spp.	Bottlebrush					
Callitris spp.	Cypress-pine					
Calocephalus citreus	Lemon Beauty-heads					
Calocephalus lacteus	Milky Beauty-heads					
Carex appressa	Tall Sedge					
Carex bichenoviana	Plains Sedge					
Carex inversa	Knob Sedge					
Carex spp.	Sedge					
Cassinia aculeata subsp. aculeata	Common Cassinia			P		1000
Cenchrus clandestinus	Kikuyu	Exotic				
Centipeda cunninghamii	Common Sneezeweed			P		10
Chenopodium spp.	Goosefoot					
Chloris spp.	Windmill Grass					
Chloris truncata	Windmill Grass					
Chrysocephalum apiculatum s.l.	Common Everlasting			P		20
Chrysocephalum semipapposum	Clustered Everlasting			P		75

SCIENTIFIC NAME	COMMON NAME	ORIGIN	CONSERVATION STATUS			COUNT OF INDIVIDUALS TO BE REMOVED (FFG PROTECTED ONLY)
			EPBC	FFG	VICADV	
Cirsium vulgare	Spear Thistle	Exotic; C				
Clematis aristata	Mountain Clematis					
Convolvulus angustissimus	Blushing Bindweed					
Convolvulus remotus	Grass Bindweed					
Coronidium gunnianum	Pale Swamp Everlasting			P	vu	
Corymbia maculata	Spotted Gum	Exotic				
Crataegus monogyna	Hawthorn	Exotic; C				
Cupressus spp.	Cypress	Exotic				
Cycnogeton spp.	Water Ribbons					
Cynara cardunculus subsp. flavescens	Artichoke Thistle	Exotic; C				
Cynodon dactylon var. dactylon	Couch	Exotic				
Cynoglossum suaveolens	Sweet Hound's-tongue					
Cyperus eragrostis	Drain Flat-sedge	Exotic				
Cyperus exaltatus	Tall Flat-sedge					
Cyperus spp.	Flat Sedge					
Dactylis glomerata	Cocksfoot	Exotic				
Daviesia latifolia	Hop Bitter-pea					
Daviesia leptophylla	Narrow-leaf Bitter-pea					
Dianella admixta	Black-anther Flax-lily					
Dianella amoena	Matted Flax-lily		EN	L	en	0
Dianella longifolia s.l.	Pale Flax-lily					
Dianella revoluta s.l.	Black-anther Flax-lily					
Dianella tarda	Late-flower Flax-lily				vu	
Dichelachne spp.	Plume Grass					
Dillwynia cinerascens s.l.	Grey Parrot-pea					
Dillwynia spp.	Parrot Pea					
Ehrharta erecta var. erecta	Panic Veldt-grass	Exotic				
Ehrharta longiflora	Annual Veldt-grass	Exotic				
Einadia nutans	Nodding Saltbush					
Eleocharis acuta	Common Spike-sedge					
Elymus scaber	Common Wheat Grass					

SCIENTIFIC NAME	COMMON NAME	ORIGIN	CONSERVATION STATUS			COUNT OF INDIVIDUALS TO BE REMOVED (FFG PROTECTED ONLY)
			EPBC	FFG	VICADV	
Enchylaena tomentosa var. tomentosa	Ruby Saltbush					
Enteropogon acicularis	Spider Grass					
Epilobium billardierianum	Variable Willow-herb					
Epilobium ciliatum	Glandular Willow-herb	Exotic				
Epilobium spp.	Willow Herb					
Eryngium ovinum	Blue Devil					
Eryngium vesiculosum	Prickfoot					
Eucalyptus albens	White Box					
Eucalyptus camaldulensis	River Red-gum					
Eucalyptus camaldulensis var. camaldulensis	River Red-gum					
Eucalyptus cephalocarpa	Silver-leaf Stringybark					
Eucalyptus cladocalyx	Sugar Gum	Exotic				
Eucalyptus dives	Broad-leaf Peppermint					
Eucalyptus globulus	Southern Blue-gum	*				
Eucalyptus goniocalyx s.l.	Bundy					
Eucalyptus goniocalyx subsp. goniocalyx	Bundy					
Eucalyptus leucoxylon	Yellow Gum	*				
Eucalyptus leucoxylon	Yellow Gum					
Eucalyptus macrorhyncha	Red Stringybark					
Eucalyptus melliodora	Yellow Box					
Eucalyptus microcarpa	Grey Box					
Eucalyptus obliqua	Messmate Stringybark					
Eucalyptus ovata	Swamp Gum					
Eucalyptus polyanthemos	Red Box					
Eucalyptus radiata s.l.	Narrow-leaf Peppermint					
Eucalyptus radiata subsp. radiata	Narrow-leaf Peppermint					
Eucalyptus rubida	Candlebark					
Eucalyptus spp.	Eucalypt					
Eucalyptus tricarpa	Red Ironbark					
Eucalyptus tricarpa subsp. tricarpa	Red Ironbark					
Eucalyptus viminalis	Manna Gum					

SCIENTIFIC NAME	COMMON NAME	ORIGIN	CONSERVATION STATUS			COUNT OF INDIVIDUALS TO BE REMOVED (FFG PROTECTED ONLY)
			EPBC	FFG	VICADV	
Eucalyptus viminalis subsp. viminalis	Manna Gum					
Eucalyptus yarraensis	Yarra Gum				r	
Euchiton involucratus s.l.	Common Cudweed					
Euphorbia drummondii s.l.	Flat Spurge	*				
Exocarpos cupressiformis	Cherry Ballart					
Foeniculum vulgare	Fennel	Exotic; C				
Fraxinus angustifolia	Desert Ash	Exotic				
Fraxinus spp.	Ash	Exotic				
Gahnia spp.	Saw Sedge					
Gazania spp.	Gazania	Exotic				
Genista monspessulana	Montpellier Broom	Exotic; C				
Geranium gardneri	Rough Crane's-bill					
Geranium potentilloides	Soft Crane's-bill					
Geranium retrorsum s.l.	Grassland Crane's-bill					
Geranium sp. 2	Variable Crane's-bill					
Geranium spp.	Crane's Bill					
Glyceria spp.	Sweet Grass					
Glycine clandestina	Twining Glycine					
Glycine spp.	Glycine					
Gompholobium huegelii	Common Wedge-pea			P		10
Gonocarpus tetragynus	Common Raspwort					
Goodenia ovata	Hop Goodenia					
Goodenia spp.	Goodenia					
Haloragis spp.	Raspwort					
Hardenbergia violacea	Purple Coral-pea					
Hedera spp.	Ivy	Exotic				
Helichrysum luteoalbum	Jersey Cudweed					
Helminthotheca echioides	Ox-tongue	Exotic				
Hibbertia spp.	Guinea Flower					
Hordeum spp.	Barley Grass	Exotic				
Hypericum gramineum	Small St John's Wort					
Hypericum perforatum subsp. veronense	St John's Wort	Exotic; C				
Hypochaeris radicata	Flatweed	Exotic				
Hypochaeris spp.	Cat's Ear	Exotic				

SCIENTIFIC NAME	COMMON NAME	ORIGIN	CONSERVATION STATUS			COUNT OF INDIVIDUALS TO BE REMOVED (FFG PROTECTED ONLY)
			EPBC	FFG	VICADV	
Hypoxis s.l. spp.	Hypoxis					
Isolepis spp.	Club Sedge					
Juncus acutus subsp. acutus	Spiny Rush	Exotic; C				
Juncus amabilis	Hollow Rush					
Juncus aridicola	Tussock Rush					
Juncus spp.	Rush					
Juncus subsecundus	Finger Rush					
Kennedia prostrata	Running Postman					
Kurajong spp.	Kurajong	*				
Lachnagrostis filiformis s.l.	Common Blown-grass					
Lactuca serriola	Prickly Lettuce	Exotic				
Lepidosperma gunnii	Slender Sword-sedge					
Leptorhynchos tenuifolius	Wiry Buttons					
Leptospermum myrsinoides	Heath Tea-tree					
Leptospermum spp.	Tea Tree					
Ligustrum spp.	Privet	Exotic				
Lolium perenne	Perennial Rye-grass	Exotic				
Lolium spp.	Rye Grass	Exotic				
Lomandra filiformis	Wattle Mat-rush					
Lomandra filiformis subsp. filiformis	Wattle Mat-rush					
Lomandra longifolia subsp. exilis	Cluster-headed Mat-rush					
Lomandra spp.	Mat-rush					
Lycium ferocissimum	African Box-thorn	Exotic; C				
Lysimachia arvensis	Pimpernel	Exotic				
Lysimachia arvensis (Red-flowered variant)	Scarlet Pimpernel	Exotic				
Lythrum hyssopifolia	Small Loosestrife					
Maireana enchylaenoides	Wingless Bluebush					
Marrubium vulgare	Horehound	Exotic; C				
Melaleuca ericafolia	Swamp Paperbark					
Melaleuca spp.	Honey-myrtle					
Melaleuca styphelioides	Prickly Paperbark	Exotic				
Melicytus dentatus s.l.	Tree Violet					
Mentha spp.	Mint					
Microlaena stipoides var. stipoides	Weeping Grass					

SCIENTIFIC NAME	COMMON NAME	ORIGIN	CONSERVATION STATUS			COUNT OF INDIVIDUALS TO BE REMOVED (FFG PROTECTED ONLY)
			EPBC	FFG	VICADV	
Myriophyllum crispatum	Upright Water-milfoil					
Nassella neesiana	Chilean Needle-grass	Exotic; C				
Nassella trichotoma	Serrated Tussock	Exotic; C				
Onopordum acanthium subsp. acanthium	Scotch Thistle	Exotic; C				
Opuntia spp.	Prickly pear	Exotic; C				
Oxalis spp.	Wood Sorrel					
Panicum decompositum var. decompositum	Native Millet					
Panicum effusum	Hairy Panic					
Paspalidium jubiflorum	Warrego Summer-grass	*				
Paspalum dilatatum	Paspalum	Exotic				
Paspalum distichum	Water Couch	Exotic				
Paspalum spp.	Paspalum	Exotic				
Pelargonium spp.	Stork's Bill					
Persicaria decipiens	Slender Knotweed					
Persicaria spp.	Knotweed					
Persicaria subsessilis	Hairy Knotweed					
Phalaris aquatica	Toowoomba Canary-grass	Exotic				
Phalaris canariensis	Canary Grass	Exotic				
Phalaris spp.	Canary Grass	Exotic				
Phoenix canariensis	Canary Island Date-palm	Exotic				
Phragmites australis	Common Reed					
Pimelea curviflora s.l.	Curved Rice-flower					
Pimelea curviflora s.s.	Curved Rice-flower					
Pimelea humilis	Common Rice-flower					
Pimelea spp.	Rice Flower					
Pinus radiata	Radiata Pine	Exotic				
Pinus spp.	Pine	Exotic				
Piptatherum miliaceum	Rice Millet	Exotic				
Pittosporum undulatum	Sweet Pittosporum	*				
Plantago lanceolata	Ribwort	Exotic				
Plantago spp.	Plantain					
Poa labillardierei	Common Tussock-grass					
Poa spp.	Tussock Grass					

SCIENTIFIC NAME	COMMON NAME	ORIGIN	CONSERVATION STATUS			COUNT OF INDIVIDUALS TO BE REMOVED (FFG PROTECTED ONLY)
			EPBC	FFG	VICADV	
Pteridium esculentum	Austral Bracken					
Pyracantha spp.	Firethorn	Exotic				
Ranunculus inundatus	River Buttercup					
Rosa rubiginosa	Sweet Briar	Exotic; C				
Rubus anglocandicans	Common Blackberry	Exotic; C				
Rubus fruticosus spp. agg.	Blackberry	Exotic; C				
Rumex crystallinus s.l.	Glistening Dock					
Rumex spp.	Dock					
Rytidosperma caespitosum	Common Wallaby-grass					
Rytidosperma duttonianum	Brown-back Wallaby-grass					
Rytidosperma erianthum	Hill Wallaby-grass					
Rytidosperma pallidum	Silvertop Wallaby-grass					
Rytidosperma setaceum	Bristly Wallaby-grass					
Rytidosperma spp.	Wallaby Grass					
Salix spp.	Willow	Exotic; C				
Schinus molle	Pepper Tree	Exotic				
Selliera radicans	Swampweed					
Senecio quadridentatus	Cotton Fireweed			P		20
Sida corrugata	Variable Sida					
Silene apetala	Mallee Catchfly	Exotic				
Solanum esuriale	Quena					
Solanum nigrum s.l.	Black Nightshade	Exotic				
Solanum pseudocapsicum	Madeira Winter-cherry	Exotic				
Solanum quadriloculatum	Tomato Bush					
Taraxacum officinale spp. agg.	Garden Dandelion	Exotic				
Themeda triandra	Kangaroo Grass					
Trifolium spp.	Clover	Exotic				
Typha spp.	Bulrush					
Ulex europaeus	Gorse	Exotic; C				
Ulmus spp.	Elm	Exotic				
Verbascum blattaria	Moth Mullein	Exotic				
Vittadinia spp.	New Holland Daisy					
Wahlenbergia spp.	Bluebell					
Xanthorrhoea australis	Austral Grass-tree			P		50

SCIENTIFIC NAME	COMMON NAME	ORIGIN	CONSERVATION STATUS			COUNT OF INDIVIDUALS TO BE REMOVED (FFG PROTECTED ONLY)
			EPBC	FFG	VICADV	
Xerochrysum palustre	Swamp Everlasting		VU	L	vu	0
Xerochrysum viscosum	Shiny Everlasting			P		50
Zantedeschia aethiopica	White Arum-lily	Exotic				

Fauna species recorded incidentally and during targeted surveys.

TABLE D.2: FAUNA SPECIES RECORDED DURING FIELD ASSESSMENT AND SURVEYS

SCIENTIFIC NAME	COMMON NAME	ORIGIN	CONSERVATION STATUS		
			EPBC	FFG	VICADV
Acanthiza nana	Yellow Thornbill				
Acanthiza pusilla	Brown Thornbill				
Acridotheres tristis	Common Myna	Introduced			
Acrocephalus stentoreus	Australian Reed Warbler				
Alisterus scapularis	Australian King-Parrot				
Anas superciliosa	Pacific Black Duck				
Anthochaera carunculata	Red Wattlebird				
Anthochaera chrysoptera	Little Wattlebird				
Aquila audax	Wedge-tailed Eagle				
Cacatua galerita	Sulphur-crested Cockatoo				
Cacatua tenuirostris	Long-billed Corella				
Callocephalon fimbriatum	Gang-gang Cockatoo				
Calyptorhynchus funereus	Yellow-tailed Black-Cockatoo				
Carassius auratus	Goldfish	Introduced			
Chenonetta jubata	Australian Wood Duck				
Colluricincla harmonica	Grey Shrike-thrush				
Coracina novaehollandiae	Black-faced Cuckoo-shrike				
Corcorax melanorhamphos	White-winged Chough				
Cormobates leucophaeus	White-throated Treecreeper				
Corvus coronoides	Australian Raven				
Corvus mellori	Little Raven				
Coturnix ypsilophora australis	Brown Quail				
Cracticus tibicen	Australian Magpie				
Cracticus torquatus	Grey Butcherbird				
Crinia signifera	Common Froglet				
Dacelo novaeguineae	Laughing Kookaburra				

SCIENTIFIC NAME	COMMON NAME	ORIGIN	CONSERVATION STATUS		
			EPBC	FFG	VICADV
Delma inornata	Olive Legless Lizard				
Dromaius novaehollandiae	Emu			nt	
Egretta novaehollandiae	White-faced Heron				
Elanus axillaris	Black-shouldered Kite				
Entomyzon cyanotis	Blue-faced Honeyeater				
Eolophus roseicapillus	Galah				
Falco cenchroides	Nankeen Kestrel				
Gambusia holbrooki	Eastern Gambusia	Introduced			
Glossopsitta concinna	Musk Lorikeet				
Grallina cyanoleuca	Magpie-lark				
Haliastur sphenurus	Whistling Kite				
Hemiergis decresiensis	Three-toed Skink				
Hirundo neoxena	Welcome Swallow				
Lampropholis guichenoti	Garden Skink				
Lepus europeaus	European Hare	Introduced			
Lichenostomus chrysops	Yellow-faced Honeyeater				
Lichenostomus penicillatus	White-plumed Honeyeater				
Limnodynastes dumerilii dumerilii	Pobblebonk Frog				
Limnodynastes tasmaniensis	Spotted Marsh Frog				
Litoria peronii	Peron's Tree Frog				
Macropus giganteus	Eastern Grey Kangaroo				
Malurus cyaneus	Superb Fairy-wren				
Manorina melanocephala	Noisy Miner				
Melithreptus lunatus	White-naped Honeyeater				
Merops ornatus	Rainbow Bee-eater				
Milvus migrans	Black Kite				
Misgurnus anguillicaudatus	Oriental Weatherloach	Introduced			
Mus musculus	House Mouse	Introduced			
Neochmia temporalis	Red-browed Finch				
Neophema chrysostoma	Blue-winged Parrot				
Ocyphaps lophotes	Crested Pigeon				
Oryctolagus cuniculus	European Rabbit	Introduced			
Pachycephala olivacea	Olive Whistler				
Pardalotus punctatus punctatus	Spotted Pardalote				
Pardalotus striatus	Striated Pardalote				
Passer domesticus	House Sparrow	Introduced			
Passer montanus	Eurasian Tree Sparrow	Introduced			
Pelicanus conspicillatus	Australian Pelican				

SCIENTIFIC NAME	COMMON NAME	ORIGIN	CONSERVATION STATUS		
			EPBC	FFG	VICADV
Petrochelidon ariel	Fairy Martin				
Phaps chalcoptera	Common Bronzewing				
Philemon corniculatus	Noisy Friarbird				
Platycercus elegans	Crimson Rosella				
Platycercus eximius	Eastern Rosella				
Plegadis falcinellus	Glossy Ibis			nt	
Psephotus haematonotus	Red-rumped Parrot				
Pseudonaja textilis	Eastern Brown Snake				
Rhipidura albiscapa	Grey Fantail				
Rhipidura leucophrys	Willie Wagtail				
Rhipidura rufifrons	Rufous Fantail				
Rusa inucolor	Sambar Deer	Introduced			
Strepera graculina	Pied Currawong				
Sturnus vulgaris	Common Starling	Introduced			
Sugamel niger	Black Honeyeater				
Sus scrofa	Pig (feral)	Introduced			
Threskiornis molucca	Australian White Ibis				
Tiliqua scincoides	Common Blue-tongued Lizard				
Todiramphus sanctus	Sacred Kingfisher				
Trichoglossus chlorolepidotus	Scaly-breasted Lorikeet				
Trichoglossus haematodus	Rainbow Lorikeet				
Turdus merula	Common Blackbird	Introduced			
Vanellus miles	Masked Lapwing				
Vombatus ursinus	Common Wombat				
Vulpes vulpes	Red Fox	Introduced			

Appendix E

NVR Report

Scenario test – native vegetation removal

This report provides offset requirements for internal testing of different proposals to remove native vegetation. **This report DOES NOT support an application to remove, destroy or lop native vegetation under Clause 52.16 or 52.17 of planning schemes in Victoria.** A report must be obtained from the Department of Environment, Land, Water and Planning (DELWP).

Date of issue: **13/07/2019**
Time of issue: **7:16 pm**

Report ID: Scenario Testing

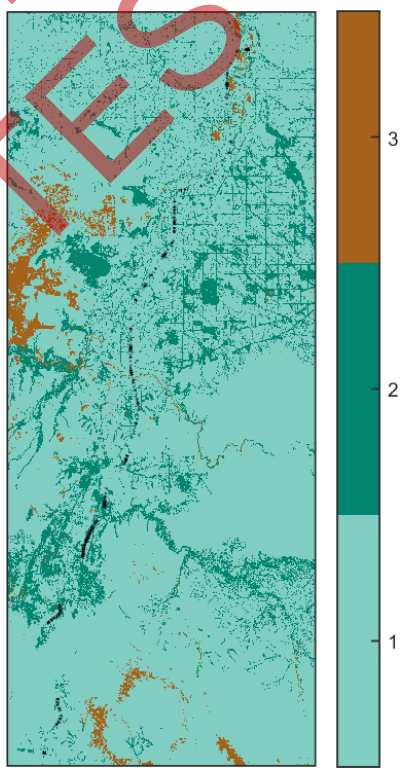
Project ID	SLU_NVR_VICGRID94

Assessment pathway

Assessment pathway	**Detailed Assessment Pathway**
Extent including past and proposed	23.883 ha
Extent of past removal	0.000 ha
Extent of proposed removal	23.883 ha
No. Large trees proposed to be removed	169
Location category of proposed removal	Location 3 The native vegetation is in an area where the removal of less than 0.5 hectares could have a significant impact on habitat for one or more rare or threatened species.The native vegetation is also in an area mapped as an endangered Ecological Vegetation Class (as per the statewide EVC map).

SCENARIO TESTING

1. Location map



Scenario test – native vegetation removal

Offset requirements if a permit is granted

Any approval granted will include a condition to obtain an offset that meets the following requirements:

General offset amount[1]	11.881 general habitat units
Vicinity	Goulburn Broken, Port Phillip and Westernport Catchment Management Authority (CMA) or Greater Shepparton City, Mitchell Shire, Strathbogie Shire Council
Minimum strategic biodiversity value score[2]	0.412
Large trees	169 large trees

NB: values within tables in this document may not add to the totals shown above due to rounding

Appendix 1 includes information about the native vegetation to be removed

Appendix 2 includes information about the rare or threatened species mapped at the site.

Appendix 3 includes maps showing native vegetation to be removed and extracts of relevant species habitat importance maps

SCENARIO TESTING

1 The general offset amount required is the sum of all general habitat units in Appendix 1.

2 Minimum strategic biodiversity score is 80 per cent of the weighted average score across habitat zones where a general offset is required

Scenario test – native vegetation removal

Next steps

Any proposal to remove native vegetation must meet the application requirements of the Detailed Assessment Pathway and it will be assessed under the Detailed Assessment Pathway.

This report DOES NOT support an application to remove, destroy or lop native vegetation under Clause 52.16 or 52.17 of planning schemes in Victoria.

If you wish to remove the mapped native vegetation you must submit the related shapefiles to the Department of Environment, Land, Water and Planning (DELWP) for processing, by email to ensymnvrtool.support@delwp.vic.gov.au. DELWP will provide a *Native vegetation removal report* that is required to meet the permit application requirements in accordance with *Guidelines for the removal, destruction or lopping of native vegetation* (Guidelines).

SCENARIO TESTING

Appendix 1: Description of native vegetation to be removed

The species-general offset test was applied to your proposal. This test determines if the proposed removal of native vegetation has a proportional impact on any rare or threatened species habitats above the species offset threshold. The threshold is set at 0.005 per cent of the mapped habitat value for a species. When the proportional impact is above the species offset threshold a species offset is required. This test is done for all species mapped at the site. Multiple species offsets will be required if the species offset threshold is exceeded for multiple species.

Where a zone requires species offset(s), the species habitat units for each species in that zone is calculated by the following equation in accordance with the Guidelines:

Species habitat units = extent x condition x species landscape factor x 2, where the species landscape factor = 0.5 + (habitat importance score/2)

The species offset amount(s) required is the sum of all species habitat units per zone

Where a zone does not require a species offset, the general habitat units in that zone is calculated by the following equation in accordance with the Guidelines:

General habitat units = extent x condition x general landscape factor x 1.5, where the general landscape factor = 0.5 + (strategic biodiversity value score/2)

The general offset amount required is the sum of all general habitat units per zone.

SCENARIO TESTING

Native vegetation to be removed

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	**Type**	**BioEVC**	**BioEVC conservation status**	**Large tree(s)**	**Partial removal**	**Condition score**	**Polygon Extent**	**Extent without overlap**	**SBV score**	**HI score**	**Habitat units**	**Offset type**
1-0	Scattered Tree	cvu_0061	Endangered	0	no	0.200	0.031	0.031	0.600		0.008	General
1-0	Scattered Tree	cvu_0061	Endangered	0	no	0.200	0.031	0.031	0.710		0.008	General
1-0	Scattered Tree	cvu_0061	Endangered	0	no	0.200	0.031	0.024	0.710		0.006	General
1-0	Scattered Tree	cvu_0061	Endangered	0	no	0.200	0.031	0.024	0.710		0.006	General
1-0	Scattered Tree	cvu_0061	Endangered	0	no	0.200	0.031	0.031	0.740		0.008	General
1-0	Scattered Tree	cvu_0061	Endangered	1	no	0.200	0.070	0.055	0.770		0.015	General
1-0	Scattered Tree	vriv0867	Endangered	0	no	0.200	0.031	0.019	0.861		0.005	General
1-0	Scattered Tree	vriv0867	Endangered	0	no	0.200	0.031	0.019	0.890		0.005	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-0	Scattered Tree	vriv0867	Endangered	0	no	0.200	0.031	0.020	0.390		0.004	General
1-0	Scattered Tree	vriv0867	Endangered	0	no	0.200	0.031	0.020	0.390		0.004	General
1-0	Scattered Tree	vriv0867	Endangered	0	no	0.200	0.031	0.031	0.490		0.007	General
1-0	Scattered Tree	vriv0867	Endangered	0	no	0.200	0.031	0.031	0.110		0.005	General
1-0	Scattered Tree	vriv0867	Endangered	0	no	0.200	0.031	0.031	0.347		0.006	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.031	0.550		0.007	General
1-0	Scattered Tree	vriv0175	Endangered	0	no	0.200	0.031	0.031	0.350		0.006	General
1-0	Scattered Tree	vriv0175	Endangered	0	no	0.200	0.031	0.031	0.290		0.006	General
1-0	Scattered Tree	vriv0803	Endangered	1	no	0.200	0.070	0.070	0.100		0.012	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.140		0.005	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.150		0.005	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.100		0.005	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.460		0.007	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.028	0.230		0.005	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.017	0.230		0.003	General

SCENARIO TESTING

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.020	0.230		0.004	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.510		0.007	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.770		0.008	General
1-0	Scattered Tree	vriv0055	Endangered	1	no	0.200	0.070	0.070	0.310		0.014	General
1-0	Scattered Tree	vriv0125	Endangered	0	no	0.200	0.031	0.031	0.670		0.008	General
1-0	Scattered Tree	vriv0056	Endangered	0	no	0.200	0.031	0.001	0.270		0.000	General
1-0	Scattered Tree	vriv0056	Endangered	1	no	0.200	0.070	0.070	0.270		0.013	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.031	0.160		0.005	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.031	0.572		0.007	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.024	0.817		0.007	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.024	0.816		0.007	General
1-0	Scattered Tree	vriv0803	Endangered	1	no	0.200	0.070	0.070	0.457		0.015	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.031	0.100		0.005	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.023	0.130		0.004	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.020	0.130		0.003	General

SCENARIO TESTING

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.021	0.129		0.004	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.016	0.100		0.003	General
1-0	Scattered Tree	vriv0803	Endangered	1	no	0.200	0.070	0.070	0.100		0.012	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.031	0.460		0.007	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.022	0.270		0.004	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.011	0.270		0.002	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.020	0.270		0.004	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.031	0.270		0.006	General
1-0	Scattered Tree	vriv0803	Endangered	1	no	0.200	0.070	0.070	0.435		0.015	General
1-0	Scattered Tree	vriv0803	Endangered	0	no	0.200	0.031	0.031	0.178		0.006	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.100		0.005	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.490		0.007	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.024	0.170		0.004	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.024	0.170		0.004	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.020	0.170		0.003	General

SCENARIO TESTING

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.020	0.170		0.003	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.030	0.480		0.007	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.480		0.007	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.100		0.005	General
1-0	Scattered Tree	vriv0055	Endangered	1	no	0.200	0.070	0.070	0.170		0.012	General
1-1	Scattered Tree	vriv0055	Endangered	1	no	0.200	0.070	0.070	0.340		0.014	General
1-1	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.340		0.006	General
1-1	Scattered Tree	vriv0056	Endangered	0	no	0.200	0.031	0.018	0.880		0.005	General
1-1	Scattered Tree	vriv0056	Endangered	0	no	0.200	0.031	0.018	0.880		0.005	General
1-0	Scattered Tree	vriv0055	Endangered	1	no	0.200	0.070	0.070	0.150		0.012	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.190		0.006	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.026	0.760		0.007	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.760		0.008	General
1-1	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.190		0.006	General
1-1	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.190		0.006	General

SCENARIO TESTING

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.030	0.650		0.007	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.019	0.180		0.003	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.021	0.180		0.004	General
1-0	Scattered Tree	vriv0055	Endangered	1	no	0.200	0.070	0.064	0.180		0.011	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.469		0.007	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.740		0.008	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.583		0.007	General
1-0	Scattered Tree	vriv0055	Endangered	1	no	0.200	0.070	0.070	0.620		0.017	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.620		0.008	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.180		0.005	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.180		0.005	General
1-0	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.710		0.008	General
1-1	Scattered Tree	vriv0055	Endangered	0	no	0.200	0.031	0.031	0.660		0.008	General
1-1	Scattered Tree	vriv0292	Endangered	0	no	0.200	0.031	0.031	0.760		0.008	General
1-1	Scattered Tree	cvu_0175	Endangered	0	no	0.200	0.031	0.031	0.720		0.008	General

SCENARIO TESTING

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-1	Scattered Tree	hnf_0023	Endangered	1	no	0.200	0.070	0.070	0.200		0.013	General
1-1	Scattered Tree	cvu_0047	Endangered	0	no	0.200	0.031	0.020	0.850		0.006	General
1-0	Scattered Tree	cvu_0047	Endangered	0	no	0.200	0.031	0.016	0.850		0.004	General
1-1	Scattered Tree	cvu_0047	Endangered	0	no	0.200	0.031	0.027	0.850		0.007	General
1-1	Scattered Tree	cvu_0047	Endangered	0	no	0.200	0.031	0.023	0.880		0.007	General
1-1	Scattered Tree	cvu_0047	Endangered	0	no	0.200	0.031	0.023	0.880		0.007	General
1-1	Scattered Tree	cvu_0047	Endangered	0	no	0.200	0.031	0.031	0.880		0.009	General
1-1	Scattered Tree	cvu_0047	Endangered	0	no	0.200	0.031	0.031	0.540		0.007	General
1-hz09	Patch	cvu_0061	Vulnerable	0	no	0.410	0.048	0.048	0.695		0.025	General
1-hz07	Patch	cvu_0061	Vulnerable	0	no	0.380	0.017	0.017	0.726		0.008	General
1-Hz08	Patch	cvu_0061	Vulnerable	0	no	0.400	0.060	0.060	0.740		0.032	General
1-Hz07	Patch	cvu_0061	Vulnerable	0	no	0.380	0.028	0.028	0.770		0.014	General
1-Hz07	Patch	cvu_0061	Vulnerable	0	no	0.380	0.003	0.003	0.745		0.001	General
1-Hz06	Patch	cvu_0061	Vulnerable	0	no	0.350	0.053	0.053	0.770		0.025	General
1-Hz07	Patch	cvu_0061	Vulnerable	0	no	0.380	0.000	0.000	0.770		0.000	General

SCENARIO TESTING

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-Hz06	Patch	cvu_0061	Vulnerable	0	no	0.350	0.017	0.017	0.770		0.008	General
1-Hz06b	Patch	cvu_0061	Vulnerable	0	no	0.400	0.122	0.122	0.758		0.064	General
1-Hz07	Patch	cvu_0061	Vulnerable	0	no	0.380	0.018	0.018	1.000		0.010	General
1-HZ10	Patch	cvu_0061	Vulnerable	2	no	0.500	0.252	0.252	0.915		0.181	General
1-Hz14 grassy disturbed area	Patch	cvu_0061	Vulnerable	0	no	0.300	0.002	0.002	0.533		0.001	General
1-HZ19	Patch	vriv0055	Vulnerable	0	no	0.350	0.035	0.035	0.758		0.016	General
1-HZ21	Patch	cvu_0055	Endangered	0	no	0.440	0.010	0.010	0.534		0.005	General
1-hz25	Patch	vriv0055	Vulnerable	0	no	0.280	0.008	0.008	0.550		0.003	General
1-HZ26	Patch	cvu_0068	Endangered	0	no	0.280	0.013	0.013	0.600		0.004	General
1-HZ38	Patch	vriv0803	Endangered	0	no	0.340	0.148	0.148	0.121		0.042	General
1-HZ38	Patch	vriv0803	Endangered	0	no	0.340	0.052	0.052	0.412		0.019	General
1-HZ40	Patch	vriv0803	Endangered	0	no	0.500	0.008	0.008	0.820		0.006	General

SCENARIO TESTING

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-HZ43	Patch	vriv0803	Endangered	0	no	0.270	0.003	0.003	0.360		0.001	General
1-HZ42	Patch	vriv0803	Endangered	0	no	0.230	0.002	0.002	0.390		0.000	General
1-HZ54	Patch	vriv0175_61	Endangered	0	no	0.440	0.002	0.002	0.400		0.001	General
1-HZ54	Patch	vriv0175_61	Endangered	0	no	0.440	0.000	0.000	0.400		0.000	General
1-HZ55	Patch	vriv0175_61	Endangered	0	no	0.350	0.002	0.002	0.480		0.001	General
1-HZ57	Patch	vriv0175_61	Endangered	0	no	0.490	0.102	0.102	0.477		0.055	General
1-HZ60	Patch	vriv0803	Endangered	0	no	0.180	0.009	0.009	0.120		0.001	General
1-HZ67	Patch	vriv0803	Endangered	0	no	0.460	0.029	0.029	0.680		0.017	General
1-HZ6	Patch	vriv0055	Vulnerable	0	no	0.270	0.084	0.084	0.190		0.020	General
1-HZ6	Patch	vriv0055	Vulnerable	0	no	0.270	0.002	0.002	0.190		0.000	General
1-HZ4	Patch	vriv0055	Vulnerable	0	no	0.310	0.038	0.038	0.340		0.012	General
1-HZ3	Patch	vriv0055	Vulnerable	0	no	0.360	0.003	0.003	0.340		0.001	General
1-HZ7	Patch	vriv0055	Vulnerable	0	no	0.367	0.148	0.148	0.280		0.052	General
1-TA3b	Patch	vriv0055	Vulnerable	0	no	0.350	0.042	0.042	0.140		0.013	General

SCENARIO TESTING

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-TA03c	Patch	vriv0055	Vulnerable	0	no	0.350	0.098	0.098	0.145		0.029	General
1-TA3d	Patch	vriv0055	Vulnerable	0	no	0.320	0.036	0.036	0.150		0.010	General
1-HZ8	Patch	vriv0175_61	Endangered	0	no	0.300	0.006	0.006	0.290		0.002	General
1-HZ1	Patch	vriv0175_61	Endangered	0	no	0.440	0.018	0.018	0.290		0.008	General
1-HZ2	Patch	vriv0175_61	Endangered	0	no	0.300	0.001	0.001	0.312		0.000	General
1-HZ1a	Patch	vriv0175_61	Endangered	0	no	0.260	0.005	0.005	0.470		0.001	General
1-hz9	Patch	vriv0055	Vulnerable	1	no	0.370	0.111	0.111	0.240		0.038	General
1-TA1c	Patch	vriv0055	Vulnerable	0	no	0.410	0.027	0.027	0.100		0.009	General
1-TA02c	Patch	vriv0055	Vulnerable	0	no	0.190	0.004	0.004	0.700		0.001	General
1-HZ11	Patch	vriv0055	Vulnerable	0	no	0.200	0.017	0.017	0.199		0.003	General
1-HZ9	Patch	vriv0055	Vulnerable	0	no	0.370	0.021	0.021	0.180		0.007	General
1-MU3a	Patch	vriv0055	Vulnerable	0	no	0.520	0.076	0.076	0.170		0.035	General
1-MU3c	Patch	vriv0055	Vulnerable	0	no	0.530	0.115	0.115	0.170		0.054	General
1-HZ14	Patch	vriv0055	Vulnerable	0	no	0.320	0.067	0.067	0.496		0.024	General

SCENARIO TESTING

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-AV1a	Patch	vriv0175_61	Endangered	0	no	0.300	0.001	0.001	0.140		0.000	General
1-AV01b	Patch	vriv0803	Endangered	0	no	0.320	0.004	0.004	0.114		0.001	General
1-AV3a	Patch	vriv0803	Endangered	0	no	0.400	0.117	0.117	0.518		0.053	General
1-AV4a	Patch	vriv0803	Endangered	0	no	0.250	0.002	0.002	0.600		0.000	General
1-AV4b	Patch	vriv0803	Endangered	0	no	0.260	0.007	0.007	0.600		0.002	General
1-AZ5a	Patch	vriv0803	Endangered	0	no	0.250	0.008	0.008	0.520		0.002	General
1-AC5b	Patch	vriv0803	Endangered	0	no	0.240	0.010	0.010	0.520		0.003	General
1-AZ5c	Patch	vriv0803	Endangered	0	no	0.340	0.003	0.003	0.470		0.001	General
1-AV5h	Patch	vriv0803	Endangered	0	no	0.370	0.006	0.006	0.324		0.002	General
1-AZ5l	Patch	vriv0803	Endangered	0	no	0.420	0.035	0.035	1.000		0.022	General
1-AV6a	Patch	vriv0056	Vulnerable	0	no	0.580	0.014	0.014	1.000		0.013	General
1-AZ6C	Patch	vriv0056	Vulnerable	0	no	0.240	0.011	0.011	0.882		0.004	General
1-AZ8a	Patch	vriv0803	Endangered	1	no	0.330	0.069	0.069	0.463		0.025	General
1-AZ9a	Patch	vriv0803	Endangered	1	no	0.480	0.197	0.197	0.459		0.103	General

SCENARIO TESTING

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-AV10a	Patch	vriv0803	Endangered	0	no	0.400	0.471	0.471	0.454		0.205	General
1-AZ11a	Patch	vriv0803	Endangered	0	no	0.450	0.033	0.033	0.100		0.012	General
1-TA7A	Patch	vriv0055	Vulnerable	0	no	0.550	0.487	0.487	0.342		0.270	General
1-TA8	Patch	vriv0055	Vulnerable	0	no	0.540	0.373	0.373	0.294		0.195	General
1-TA9a	Patch	vriv0125	Endangered	0	no	0.558	0.001	0.001	0.130		0.000	General
1-TA11a	Patch	vriv0055	Vulnerable	0	no	0.380	0.003	0.003	0.100		0.001	General
1-TA12	Patch	vriv0055	Vulnerable	0	no	0.230	0.000	0.000	0.100		0.000	General
1-TA21	Patch	vriv0055	Vulnerable	0	no	0.490	0.100	0.100	0.490		0.055	General
1-TL13a	Patch	vriv0803	Endangered	1	no	0.380	0.025	0.025	0.590		0.011	General
1-TL14a	Patch	vriv0803	Endangered	1	no	0.530	0.093	0.093	0.590		0.059	General
1-TL16a	Patch	vriv0803	Endangered	0	no	0.230	0.000	0.000	0.370		0.000	General
1-Na03d	Patch	vriv0055	Vulnerable	0	no	0.480	0.000	0.000	0.530		0.000	General

SCENARIO TESTING

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-Na03e	Patch	vriv0055	Vulnerable	0	no	0.580	0.072	0.072	0.580		0.050	General
1-TA25a	Patch	vriv0055	Vulnerable	0	no	0.400	0.065	0.065	0.570		0.031	General
1-TA30a	Patch	vriv0055	Vulnerable	0	no	0.390	0.044	0.044	0.100		0.014	General
1-TA29a	Patch	vriv0055	Vulnerable	0	no	0.400	0.042	0.042	0.100		0.014	General
1-Na05g	Patch	vriv0055	Vulnerable	0	no	0.290	0.002	0.002	0.520		0.001	General
1-Na04e	Patch	vriv0055	Vulnerable	0	no	0.280	0.006	0.006	0.480		0.002	General
1-Na05h	Patch	vriv0055	Vulnerable	0	no	0.320	0.006	0.006	0.480		0.002	General
1-Na05i	Patch	vriv0055	Vulnerable	0	no	0.320	0.024	0.024	0.471		0.009	General
1-TA31	Patch	vriv0803	Endangered	0	no	0.250	0.000	0.000	0.100		0.000	General
1-TA32	Patch	vriv0803	Endangered	0	no	0.270	0.001	0.001	0.100		0.000	General
1-TA34	Patch	vriv0803	Endangered	0	no	0.350	0.236	0.236	0.110		0.069	General
1-TA35	Patch	vriv0803	Endangered	0	no	0.360	0.034	0.034	0.100		0.010	General

SCENARIO TESTING

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-TA36	Patch	vriv0803	Endangered	0	no	0.320	0.000	0.000	0.100		0.000	General
1-Na07a	Patch	vriv0055	Vulnerable	0	no	0.310	0.003	0.003	0.370		0.001	General
1-Na07c	Patch	vriv0055	Vulnerable	0	no	0.360	0.160	0.160	0.577		0.068	General
1-Na06l	Patch	vriv0055	Vulnerable	0	no	0.210	0.015	0.015	0.390		0.003	General
1-AR1A	Patch	vriv0055	Vulnerable	0	no	0.300	0.043	0.043	0.830		0.018	General
1-AR2A	Patch	cvu_0055	Endangered	6	no	0.300	0.208	0.208	0.763		0.082	General
1-MA1a	Patch	vriv0803	Endangered	0	no	0.140	0.004	0.004	0.160		0.001	General
1-AR3A	Patch	vriv0055	Vulnerable	0	no	0.300	0.000	0.000	0.760		0.000	General
1-4A	Patch	vriv0055	Vulnerable	0	no	0.200	0.004	0.004	0.223		0.001	General
1-MA2b	Patch	vriv0125	Endangered	0	no	0.340	0.005	0.005	0.140		0.001	General
1-5A	Patch	vriv0055	Vulnerable	1	no	0.500	0.084	0.084	0.217		0.038	General
1-MA3a	Patch	vriv0803	Endangered	0	no	0.280	0.024	0.024	0.514		0.007	General

SCENARIO TESTING

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-MA3b	Patch	vriv0803	Endangered	0	no	0.550	0.031	0.031	0.774		0.023	General
1-MA3c	Patch	vriv0803	Endangered	0	no	0.420	0.020	0.020	0.701		0.011	General
1-MA3d	Patch	vriv0803	Endangered	0	no	0.390	0.016	0.016	0.583		0.007	General
1-14A	Patch	vriv0055	Vulnerable	0	no	0.380	0.144	0.144	0.397		0.057	General
1-MA4a	Patch	vriv0132	Endangered	0	no	0.300	0.001	0.001	0.424		0.000	General
1-MA4b	Patch	vriv0132	Endangered	0	no	0.260	0.013	0.013	0.480		0.004	General
1-22A	Patch	vriv0055	Vulnerable	0	no	0.300	0.291	0.291	0.127		0.074	General
1-TA47a	Patch	vriv0803	Endangered	0	no	0.520	0.089	0.089	0.100		0.038	General
1-MA4d	Patch	vriv0803	Endangered	0	no	0.340	0.040	0.040	0.100		0.011	General
1-MA4e	Patch	vriv0803	Endangered	0	no	0.260	0.011	0.011	0.100		0.002	General
1-MA5a	Patch	vriv0803	Endangered	0	no	0.450	0.208	0.208	0.123		0.079	General

SCENARIO TESTING

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-MA6a	Patch	vriv0821	Depleted	0	no	0.517	0.001	0.001	0.530		0.001	General
1-MA5b	Patch	vriv0803	Endangered	0	no	0.450	0.043	0.043	0.530		0.022	General
1-MA5d	Patch	vriv0803	Endangered	0	no	0.490	0.056	0.056	0.152		0.024	General
1-MA5e	Patch	vriv0803	Endangered	0	no	0.470	0.106	0.106	0.100		0.041	General
1-25A	Patch	vriv0055	Vulnerable	1	no	0.370	0.105	0.105	0.294		0.038	General
1-27B	Patch	vriv0055	Vulnerable	0	no	0.300	0.000	0.000	0.640		0.000	General
1-29A	Patch	vriv0803	Endangered	1	no	0.390	0.182	0.182	0.680		0.089	General
1-34A	Patch	vriv0803	Endangered	0	no	0.280	0.002	0.002	0.180		0.001	General
1-36A	Patch	vriv0803	Endangered	0	no	0.350	0.028	0.028	0.339		0.010	General
1-MUE2b	Patch	vriv0055	Vulnerable	0	no	0.430	0.024	0.024	0.650		0.013	General
1-MUE1k	Patch	vriv0055	Vulnerable	0	no	0.410	0.080	0.080	0.190		0.029	General
1-MUE1l	Patch	vriv0055	Vulnerable	0	no	0.350	0.117	0.117	0.497		0.046	General

SCENARIO TESTING

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-MUE 1m	Patch	vriv0055	Vulnerable	0	no	0.380	0.162	0.162	0.760		0.081	General
1-MUE 1n	Patch	vriv0055	Vulnerable	0	no	0.370	0.079	0.079	0.397		0.031	General
1-1B	Patch	vriv0055	Vulnerable	0	no	0.270	0.001	0.001	0.190		0.000	General
1-4B	Patch	vriv0055	Vulnerable	0	no	0.449	0.006	0.006	0.190		0.003	General
1-6A	Patch	vriv0055	Vulnerable	0	no	0.230	0.007	0.007	0.240		0.001	General
1-6B	Patch	vriv0055	Vulnerable	0	no	0.230	0.002	0.002	0.700		0.001	General
1-7A	Patch	vriv0055	Vulnerable	0	no	0.170	0.027	0.027	0.700		0.006	General
1-7B	Patch	vriv0055	Vulnerable	0	no	0.330	0.005	0.005	0.700		0.002	General
1-8A	Patch	vriv0055	Vulnerable	0	no	0.290	0.099	0.099	0.684		0.036	General
1-4E	Patch	vriv0055	Vulnerable	0	no	0.449	0.002	0.002	0.640		0.001	General
1-10A	Patch	vriv0055	Vulnerable	1	no	0.480	0.166	0.166	0.108		0.066	General
1-4I	Patch	vriv0055	Vulnerable	0	no	0.200	0.006	0.006	0.230		0.001	General
1-4J	Patch	vriv0055	Vulnerable	0	no	0.200	0.007	0.007	0.245		0.001	General
1-13A	Patch	vriv0292	Vulnerable	7	no	0.550	0.122	0.122	0.723		0.086	General
1-MUE 1o	Patch	vriv0055	Vulnerable	0	no	0.260	0.129	0.129	0.210		0.031	General
1-MUE 1p	Patch	vriv0055	Vulnerable	0	no	0.360	0.085	0.085	0.210		0.028	General

SCENARIO TESTING

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-MUE1x	Patch	vriv0055	Vulnerable	0	no	0.360	0.135	0.135	0.604		0.059	General
1-MUE1y	Patch	vriv0055	Vulnerable	0	no	0.170	0.002	0.002	0.650		0.000	General
1-MUE1z	Patch	vriv0055	Vulnerable	0	no	0.430	0.363	0.363	0.322		0.155	General
1-MUE1aa	Patch	vriv0055	Vulnerable	0	no	0.340	0.209	0.209	0.672		0.089	General
1-MUE1ab	Patch	vriv0055	Vulnerable	0	no	0.150	0.002	0.002	0.410		0.000	General
1-MUE1ac	Patch	vriv0055	Vulnerable	0	no	0.260	0.107	0.107	0.696		0.036	General
1-WA1c	Patch	vriv0055	Vulnerable	0	no	0.300	0.257	0.257	0.150		0.067	General
1-WA1d	Patch	vriv0055	Vulnerable	0	no	0.260	0.067	0.067	0.150		0.015	General
1-15B	Patch	vriv0055	Vulnerable	0	no	0.360	0.083	0.083	0.470		0.033	General
1-WA1e	Patch	vriv0055	Vulnerable	0	no	0.180	0.081	0.081	0.150		0.013	General
1-WA2a	Patch	vriv0055	Vulnerable	0	no	0.230	0.003	0.003	0.620		0.001	General

SCENARIO TESTING

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-WA1f	Patch	vriv0055	Vulnerable	0	no	0.390	0.221	0.221	0.242		0.080	General
1-WA1i	Patch	vriv0055	Vulnerable	0	no	0.410	0.084	0.084	0.150		0.030	General
1-WA3a	Patch	vriv0055	Vulnerable	0	no	0.200	0.000	0.000	0.400		0.000	General
1-21A	Patch	vriv0292	Vulnerable	18	no	0.410	0.802	0.802	0.611		0.397	General
1-WA1j	Patch	vriv0055	Vulnerable	0	no	0.360	0.060	0.060	0.710		0.028	General
1-WA1l	Patch	vriv0055	Vulnerable	0	no	0.370	0.085	0.085	0.820		0.043	General
1-23B	Patch	vriv0292	Vulnerable	0	no	0.220	0.004	0.004	0.700		0.001	General
1-25B	Patch	vriv0292	Vulnerable	1	no	0.430	0.065	0.065	0.700		0.036	General
1-28A	Patch	vriv0055	Vulnerable	1	no	0.330	0.034	0.034	0.410		0.012	General
1-SY18a	Patch	cvu_0055	Endangered	0	no	0.260	0.009	0.009	0.270		0.002	General
1-GL9A	Patch	vriv0821	Depleted	0	no	0.490	0.002	0.002	0.880		0.002	General
1-GL10A	Patch	vriv0055	Vulnerable	0	no	0.260	0.021	0.021	0.418		0.006	General
1-GL12A	Patch	vriv0055	Vulnerable	1	no	0.400	0.052	0.052	0.748		0.027	General

SCENARIO TESTING

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-GL13A	Patch	vriv0055	Vulnerable	2	no	0.430	0.037	0.037	0.764		0.021	General
1-TK1a	Patch	cvu_0175_61	Endangered	0	no	0.500	0.116	0.116	0.620		0.070	General
1-TK1d	Patch	cvu_0175_61	Endangered	0	no	0.570	0.397	0.397	0.554		0.264	General
1-TK1e	Patch	cvu_0175_61	Endangered	0	no	0.480	0.484	0.484	0.668		0.290	General
1-GL16A	Patch	cvu_0175_61	Endangered	0	no	0.400	0.005	0.005	0.630		0.002	General
1-TK1f	Patch	cvu_0068	Endangered	0	no	0.350	0.130	0.130	0.870		0.064	General
1-TK1g	Patch	cvu_0175_61	Endangered	0	no	0.400	0.197	0.197	0.782		0.105	General
1-GL17A	Patch	cvu_0175_61	Endangered	0	no	0.500	0.026	0.026	0.630		0.016	General
1-TK1Ha	Patch	cvu_0175_61	Endangered	0	no	0.200	0.037	0.037	0.620		0.009	General
1-GL17B	Patch	cvu_0175_61	Endangered	0	no	0.500	0.003	0.003	0.800		0.002	General
1-TK1H	Patch	cvu_0175_61	Endangered	0	no	0.450	0.317	0.317	0.580		0.169	General
1-GL18A	Patch	cvu_0175_61	Endangered	4	no	0.480	0.029	0.029	0.800		0.019	General

SCENARIO TESTING

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-GL19A	Patch	cvu_0056	Endangered	7	no	0.630	0.016	0.016	0.795		0.013	General
1-TK1I	Patch	cvu_0175_61	Endangered	0	no	0.480	0.145	0.145	0.544		0.081	General
1-GL20	Patch	cvu_0175_61	Endangered	2	no	0.620	1.084	1.084	0.624		0.818	General
1-TK1J	Patch	cvu_0175_61	Endangered	0	no	0.540	0.820	0.820	0.564		0.520	General
1-TK1K	Patch	cvu_0175_61	Endangered	0	no	0.450	0.453	0.453	0.551		0.237	General
1-TK2a	Patch	cvu_0175_61	Endangered	0	no	0.360	0.046	0.046	0.796		0.022	General
1-TK3a	Patch	cvu_0175_61	Endangered	0	no	0.470	0.337	0.337	0.803		0.214	General
1-TK2b	Patch	cvu_0175_61	Endangered	0	no	0.530	0.005	0.005	0.610		0.003	General
1-GL21A	Patch	cvu_0056	Endangered	15	no	0.500	0.090	0.090	0.634		0.055	General
1-GL22A	Patch	cvu_0175_61	Endangered	6	no	0.610	0.104	0.104	0.627		0.078	General
1-GL23A	Patch	cvu_0175_61	Endangered	0	no	0.460	0.036	0.036	0.650		0.021	General
1-GL24A	Patch	cvu_0175_61	Endangered	5	no	0.620	0.162	0.162	0.607		0.121	General

SCENARIO TESTING

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-GL26A	Patch	cvu_0068	Endangered	1	no	0.340	0.037	0.037	0.610		0.015	General
1-GL21B	Patch	cvu_0056	Endangered	4	no	0.530	0.108	0.108	0.520		0.065	General
1-GL28A	Patch	cvu_0047	Vulnerable	1	no	0.470	0.023	0.023	0.880		0.015	General
1-GL29A	Patch	cvu_0047	Vulnerable	0	no	0.370	0.004	0.004	0.880		0.002	General
1-GL28C	Patch	cvu_0047	Vulnerable	2	no	0.470	0.045	0.045	0.880		0.030	General
1-GL30A	Patch	cvu_0292	Endangered	0	no	0.440	0.003	0.003	0.505		0.002	General
1-GL29B	Patch	cvu_0047	Vulnerable	0	no	0.370	0.011	0.011	0.540		0.005	General
1-GL31A	Patch	cvu_0047	Vulnerable	0	no	0.320	0.055	0.055	0.505		0.020	General
1-GL32A	Patch	cvu_0132	Endangered	0	no	0.290	0.015	0.015	0.480		0.005	General
1-GL31B	Patch	cvu_0047	Vulnerable	0	no	0.320	0.010	0.010	0.473		0.004	General

SCENARIO TESTING

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-GL32B	Patch	cvu_0132	Endangered	0	no	0.290	0.000	0.000	0.515		0.000	General
1-GL31C	Patch	cvu_0047	Vulnerable	0	no	0.320	0.003	0.003	0.600		0.001	General
1-GL32C	Patch	cvu_0132	Endangered	0	no	0.290	0.005	0.005	0.600		0.002	General
1-GL31E	Patch	cvu_0047	Vulnerable	0	no	0.320	0.008	0.008	0.555		0.003	General
1-GL31D	Patch	cvu_0047	Vulnerable	0	no	0.320	0.011	0.011	0.522		0.004	General
1-GL33A	Patch	cvu_0047	Vulnerable	2	no	0.610	0.092	0.092	0.513		0.064	General
1-WA4B	Patch	cvu_0821	Endangered	0	no	0.299	0.001	0.001	0.490		0.000	General
1-WA5F	Patch	cvu_0047	Vulnerable	0	no	0.210	0.050	0.050	0.209		0.010	General
1-WA9A	Patch	cvu_0047	Vulnerable	0	no	0.440	0.028	0.028	0.200		0.011	General
1-WA5G	Patch	cvu_0047	Vulnerable	0	no	0.210	0.002	0.002	0.200		0.000	General

SCENARIO TESTING

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-WA10A	Patch	cvu_0127	Vulnerable	1	no	0.410	0.188	0.188	0.301		0.075	General
1-WA10B	Patch	cvu_0127	Vulnerable	0	no	0.420	0.149	0.149	0.305		0.061	General
1-WA10D	Patch	cvu_0127	Vulnerable	0	no	0.400	0.006	0.006	0.500		0.003	General
1-WA11B	Patch	cvu_0127	Vulnerable	0	no	0.270	0.013	0.013	0.548		0.004	General
1-WA6D	Patch	cvu_0127	Vulnerable	1	no	0.590	0.068	0.068	0.531		0.046	General
1-WA7C	Patch	cvu_0023	Depleted	0	no	0.390	0.045	0.045	0.577		0.021	General
1-WA12A	Patch	cvu_0023	Depleted	0	no	0.490	0.020	0.020	0.790		0.013	General
1-WA16C	Patch	cvu_0047	Vulnerable	1	no	0.500	0.086	0.086	0.630		0.052	General
1-WA15C	Patch	cvu_0047	Vulnerable	0	no	0.290	0.041	0.041	0.520		0.014	General
1-WA15D	Patch	cvu_0047	Vulnerable	0	no	0.280	0.036	0.036	0.520		0.012	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-WA16E	Patch	cvu_0047	Vulnerable	2	no	0.370	0.077	0.077	0.612		0.035	General
1-WA15E	Patch	cvu_0047	Vulnerable	0	no	0.280	0.005	0.005	0.590		0.002	General
1-WA15F	Patch	cvu_0047	Vulnerable	0	no	0.280	0.038	0.038	0.590		0.013	General
1-WA15G	Patch	cvu_0047	Vulnerable	0	no	0.280	0.003	0.003	0.430		0.001	General
1-WA17B	Patch	cvu_0083	Endangered	0	no	0.410	0.055	0.055	0.630		0.028	General
1-WA4C	Patch	cvu_0083	Endangered	0	no	0.230	0.055	0.055	0.690		0.016	General
1-WA16D	Patch	cvu_0047	Vulnerable	3	no	0.500	0.204	0.204	0.748		0.134	General
1-WL1A	Patch	cvu_0083	Endangered	1	no	0.460	0.135	0.135	0.748		0.081	General
1-WA16G	Patch	cvu_0047	Vulnerable	0	no	0.400	0.000	0.000	0.630		0.000	General
1-WL1B	Patch	vvp_0083	Endangered	2	no	0.480	0.016	0.016	0.760		0.010	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-WA2B	Patch	vvp_0083	Endangered	0	no	0.230	0.000	0.000	0.700		0.000	General
1-WL10G	Patch	vvp_0821	Endangered	0	no	0.286	0.001	0.001	0.570		0.000	General
1-WL10F	Patch	vvp_0821	Endangered	0	no	0.286	0.002	0.002	0.370		0.000	General
1-NW09	Patch	vriv0056	Vulnerable	0	no	0.600	0.964	0.964	0.728		0.749	General
1-NW01	Patch	vriv0056	Vulnerable	0	no	0.600	0.006	0.006	0.270		0.003	General
1-WN4a	Patch	vvp_0083	Endangered	10	no	0.540	0.001	0.001	0.410		0.001	General
1-BF02b	Patch	cvu_0292	Endangered	0	no	0.280	0.030	0.030	0.420		0.009	General
1-BF06a	Patch	cvu_0175_61	Endangered	13	no	0.850	0.107	0.107	0.578		0.108	General
1-BF07a	Patch	cvu_0175_61	Endangered	10	no	0.550	0.044	0.044	0.554		0.029	General
1-TR01a	Patch	cvu_0055	Endangered	9	no	0.610	1.607	1.607	0.720		1.265	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-TR01b	Patch	cvu_0055	Endangered	5	no	0.650	0.366	0.366	0.647		0.294	General
1-TK01b	Patch	cvu_0175_61	Endangered	0	no	0.600	0.065	0.065	0.522		0.045	General
1-WL12A	Patch	vriv0125	Endangered	0	no	0.300	0.031	0.031	0.760		0.012	General
1-WL13A	Patch	vriv0125	Endangered	0	no	0.141	0.049	0.049	0.595		0.008	General
1-WL14A	Patch	vriv0125	Endangered	0	no	0.829	0.015	0.015	0.480		0.014	General
1-WL15A	Patch	vriv0125	Endangered	0	no	0.829	0.055	0.055	0.475		0.050	General
1-WL16A	Patch	vriv0125	Endangered	0	no	0.209	0.037	0.037	0.523		0.009	General
1-25/06/19-1b	Patch	cvu_0175_61	Endangered	0	no	0.340	0.078	0.078	0.620		0.032	General
1-GL18A	Patch	cvu_0175_61	Endangered	1	no	0.480	0.024	0.024	0.800		0.015	General
1-HZ1	Patch	vriv0175_61	Endangered	1	no	0.440	0.011	0.011	0.500		0.005	General
1-AZ18	Patch	vriv0803	Endangered	0	no	0.150	0.000	0.000	0.540		0.000	General

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Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-25/06/19-1	Patch	cvu_0175_61	Endangered	0	no	0.340	0.007	0.007	0.510		0.003	General
1-24/06/19-1	Patch	vvp_0821	Endangered	0	no	0.260	0.206	0.206	0.465		0.059	General

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Appendix 2: Information about impacts to rare or threatened species' habitats on site

This table lists all rare or threatened species' habitats mapped at the site.

Species common name	Species scientific name	Species number	Conservation status	Group	Habitat impacted	% habitat value affected
Bush Stone-curlew	*Burhinus grallarius*	10174	Endangered	Dispersed	Top ranking map	0.0033
Golden Sun Moth	*Synemon plana*	15021	Critically endangered	Dispersed	Top ranking map	0.0024
Plump Windmill Grass	*Chloris ventricosa*	500757	Vulnerable	Dispersed	Habitat importance map	0.0020
Euroa Guinea-flower	*Hibbertia humifusa subsp. erigens*	505083	Vulnerable	Dispersed	Habitat importance map	0.0019
Bent-leaf Wattle	*Acacia flexifolia*	500035	Rare	Dispersed	Habitat importance map	0.0014
Ridged Water-milfoil	*Myriophyllum porcatum*	502257	Vulnerable	Dispersed	Habitat importance map	0.0014
Squirrel Glider	*Petaurus norfolcensis*	11137	Endangered	Dispersed	Habitat importance map	0.0011
Pale Flax-lily	*Dianella sp. aff. longifolia (Riverina)*	507399	Vulnerable	Dispersed	Habitat importance map	0.0011
Pepper Grass	*Panicum laevinode*	504808	Vulnerable	Dispersed	Habitat importance map	0.0011
Yellow-tongue Daisy	*Brachyscome chrysoglossa*	503654	Vulnerable	Dispersed	Habitat importance map	0.0010
Ausfeld's Wattle	*Acacia ausfeldii*	500013	Vulnerable	Dispersed	Habitat importance map	0.0009
Small Scurf-pea	*Cullen parvum*	502773	Endangered	Dispersed	Habitat importance map	0.0009
Bush Stone-curlew	*Burhinus grallarius*	10174	Endangered	Dispersed	Habitat importance map	0.0009
Grey-crowned Babbler	*Pomatostomus temporalis temporalis*	10443	Endangered	Dispersed	Habitat importance map	0.0009
Stiff Groundsel	*Senecio behrianus*	503101	Endangered	Dispersed	Habitat importance map	0.0009
Silky Swainson-pea	*Swainsona sericea*	504946	Vulnerable	Dispersed	Habitat importance map	0.0008
Cottony Cassinia	*Cassinia ozothamnoides*	501560	Vulnerable	Dispersed	Habitat importance map	0.0008
Superb Parrot	*Polytelis swainsonii*	10277	Endangered	Dispersed	Habitat importance map	0.0008
Late-flower Flax-lily	*Dianella tarda*	505085	Vulnerable	Dispersed	Habitat importance map	0.0008

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Broom Bitter-pea	*Daviesia genistifolia s.s.*	503813	Rare	Dispersed	Habitat importance map	0.0008
Painted Honeyeater	*Grantiella picta*	10598	Vulnerable	Dispersed	Habitat importance map	0.0008
Striped Legless Lizard	*Delma impar*	12159	Endangered	Dispersed	Habitat importance map	0.0008
Umbrella Grass	*Digitaria divaricatissima var. divaricatissima*	501045	Vulnerable	Dispersed	Habitat importance map	0.0007
Rosemary Grevillea	*Grevillea rosmarinifolia subsp. rosmarinifolia*	504066	Rare	Dispersed	Habitat importance map	0.0007
Western Golden-tip	*Goodia medicaginea*	501518	Rare	Dispersed	Habitat importance map	0.0007
Silky Umbrella-grass	*Digitaria ammophila*	501041	Vulnerable	Dispersed	Habitat importance map	0.0007
Barking Owl	*Ninox connivens connivens*	10246	Endangered	Dispersed	Habitat importance map	0.0007
Veiled Fringe-sedge	*Fimbristylis velata*	501369	Rare	Dispersed	Habitat importance map	0.0007
Jericho Wire-grass	*Aristida jerichoensis var. subspinulifera*	504631	Endangered	Dispersed	Habitat importance map	0.0007
Brolga	*Grus rubicunda*	10177	Vulnerable	Dispersed	Habitat importance map	0.0006
Deane's Wattle	*Acacia deanei subsp. paucijuga*	504201	Rare	Dispersed	Habitat importance map	0.0006
Speckled Warbler	*Chthonicola sagittatus*	10504	Vulnerable	Dispersed	Habitat importance map	0.0006
Kamarooka Mallee	*Eucalyptus froggattii*	501279	Rare	Dispersed	Habitat importance map	0.0006
Long Eryngium	*Eryngium paludosum*	501238	Vulnerable	Dispersed	Habitat importance map	0.0006
Dark Wire-grass	*Aristida calycina var. calycina*	503630	Rare	Dispersed	Habitat importance map	0.0006
Striped Water-milfoil	*Myriophyllum striatum*	503869	Vulnerable	Dispersed	Habitat importance map	0.0006
Narrow Goodenia	*Goodenia macbarronii*	501513	Vulnerable	Dispersed	Habitat importance map	0.0006
Purple Diuris	*Diuris punctata*	501084	Vulnerable	Dispersed	Habitat importance map	0.0006
Riverina Bitter-cress	*Cardamine moirensis*	505032	Rare	Dispersed	Habitat importance map	0.0005
Southern Swainson-pea	*Swainsona behriana*	504944	Rare	Dispersed	Habitat importance map	0.0005
Brown Toadlet	*Pseudophryne bibronii*	13117	Endangered	Dispersed	Habitat importance map ; special site	0.0005
Slender Club-sedge	*Isolepis congrua*	501773	Vulnerable	Dispersed	Habitat importance map	0.0005

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Golden Sun Moth	*Synemon plana*	15021	Critically endangered	Dispersed	Habitat importance map	0.0005
Smooth Minuria	*Minuria integerrima*	502201	Rare	Dispersed	Habitat importance map	0.0005
Matted Flax-lily	*Dianella amoena*	505084	Endangered	Dispersed	Habitat importance map	0.0005
Velvet Daisy-bush	*Olearia pannosa subsp. cardiophylla*	502317	Vulnerable	Dispersed	Habitat importance map	0.0005
Fuzzy New Holland Daisy	*Vittadinia cuneata var. morrisii*	505060	Rare	Dispersed	Habitat importance map	0.0005
Western Silver Wattle	*Acacia decora*	500027	Vulnerable	Dispersed	Habitat importance map	0.0005
Yarra Gum	*Eucalyptus yarraensis*	501326	Rare	Dispersed	Habitat importance map	0.0005
Mueller Daisy	*Brachyscome muelleroides*	500465	Endangered	Dispersed	Habitat importance map	0.0004
Branching Groundsel	*Senecio cunninghamii var. cunninghamii*	503104	Rare	Dispersed	Habitat importance map	0.0004
Brush-tailed Phascogale	*Phascogale tapoatafa*	11017	Vulnerable	Dispersed	Habitat importance map	0.0004
Macquarie Perch	*Macquaria australasica*	4874	Endangered	Dispersed	Habitat importance map	0.0004
Regent Honeyeater	*Anthochaera phrygia*	10603	Critically endangered	Dispersed	Habitat importance map	0.0004
Crimson Spider-orchid	*Caladenia concolor*	504347	Endangered	Dispersed	Habitat importance map	0.0004
Delicate Crane's-bill	*Geranium sp. 6*	505347	Vulnerable	Dispersed	Habitat importance map	0.0004
Northern Sandalwood	*Santalum lanceolatum*	503005	Endangered	Dispersed	Habitat importance map	0.0004
Lanky Buttons	*Leptorhynchos elongatus*	501941	Endangered	Dispersed	Habitat importance map	0.0004
Floodplain Fireweed	*Senecio campylocarpus*	507136	Rare	Dispersed	Habitat importance map	0.0004
Dwarf Brooklime	*Gratiola pumilo*	503753	Rare	Dispersed	Habitat importance map	0.0004
Southern Pygmy Perch (Murray-Darling lineage)	*Nannoperca australis (Murray-Darling lineage)*	903231	Vulnerable	Dispersed	Habitat importance map	0.0003
Growling Grass Frog	*Litoria raniformis*	13207	Endangered	Dispersed	Habitat importance map	0.0003
Trailing Hop-bush	*Dodonaea procumbens*	501090	Vulnerable	Dispersed	Habitat importance map	0.0003
Spiny Rice-flower	*Pimelea spinescens subsp. spinescens*	504823	Endangered	Dispersed	Habitat importance map	0.0003

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Hairy Tails	*Ptilotus erubescens*	502825	Vulnerable	Dispersed	Habitat importance map	0.0003
Pale Swamp Everlasting	*Coronidium gunnianum*	504655	Vulnerable	Dispersed	Habitat importance map	0.0003
Yarran Wattle	*Acacia omalophylla*	500069	Endangered	Dispersed	Habitat importance map	0.0003
Blue Burr-daisy	*Calotis cuneifolia*	500594	Rare	Dispersed	Habitat importance map	0.0003
Swift Parrot	*Lathamus discolor*	10309	Endangered	Dispersed	Habitat importance map	0.0003
Bearded Dragon	*Pogona barbata*	12177	Vulnerable	Dispersed	Habitat importance map	0.0003
Lewin's Rail	*Lewinia pectoralis pectoralis*	10045	Vulnerable	Dispersed	Habitat importance map	0.0003
Waterbush	*Myoporum montanum*	502240	Rare	Dispersed	Habitat importance map	0.0003
Golden Cowslips	*Diuris behrii*	501061	Vulnerable	Dispersed	Habitat importance map	0.0003
Rye Beetle-grass	*Tripogon loliiformis*	503455	Rare	Dispersed	Habitat importance map	0.0002
Square-tailed Kite	*Lophoictinia isura*	10230	Vulnerable	Dispersed	Habitat importance map	0.0002
Black Falcon	*Falco subniger*	10238	Vulnerable	Dispersed	Habitat importance map ; special site	0.0002
Grey Grass-tree	*Xanthorrhoea glauca subsp. angustifolia*	507229	Endangered	Dispersed	Habitat importance map	0.0002
Clover Glycine	*Glycine latrobeana*	501456	Vulnerable	Dispersed	Habitat importance map	0.0002
Dwarf Bitter-cress	*Rorippa eustylis*	502944	Rare	Dispersed	Habitat importance map	0.0002
Buloke	*Allocasuarina luehmannii*	500678	Endangered	Dispersed	Habitat importance map	0.0002
Dookie Daisy	*Brachyscome gracilis*	505494	Vulnerable	Dispersed	Habitat importance map	0.0002
Chestnut-rumped Heathwren	*Calamanthus pyrrhopygius*	10498	Vulnerable	Dispersed	Habitat importance map	0.0002
Forest Bitter-cress	*Cardamine papillata*	505034	Vulnerable	Dispersed	Habitat importance map	0.0002
Australian Painted Snipe	*Rostratula australis*	10170	Critically endangered	Dispersed	Habitat importance map	0.0002
Large-flower Crane's-bill	*Geranium sp. 1*	505342	Endangered	Dispersed	Habitat importance map	0.0001
Buloke Mistletoe	*Amyema linophylla subsp. orientalis*	500217	Vulnerable	Dispersed	Habitat importance map	0.0001
Carpet Python	*Morelia spilota metcalfei*	62969	Endangered	Dispersed	Habitat importance map	0.0001

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Baillon's Crake	*Porzana pusilla palustris*	10050	Vulnerable	Dispersed	Habitat importance map	0.0001
Slender Stylewort	*Levenhookia sonderi*	501998	Rare	Dispersed	Habitat importance map	0.0001
Australasian Shoveler	*Anas rhynchotis*	10212	Vulnerable	Dispersed	Habitat importance map	0.0001
Hardhead	*Aythya australis*	10215	Vulnerable	Dispersed	Habitat importance map	0.0001
Silver Perch	*Bidyanus bidyanus*	528544	Vulnerable	Dispersed	Habitat importance map	0.0001
Lace Monitor	*Varanus varius*	12283	Endangered	Dispersed	Habitat importance map	0.0001
Emerald-lip Greenhood	*Pterostylis smaragdyna*	503915	Rare	Dispersed	Habitat importance map	0.0001
Pale-flower Crane's-bill	*Geranium sp. 3*	505344	Rare	Dispersed	Habitat importance map	0.0001
Small-leaf Bush-pea	*Pultenaea foliolosa*	502848	Rare	Dispersed	Habitat importance map	0.0001
Water Shield	*Brasenia schreberi*	500487	Vulnerable	Dispersed	Habitat importance map	0.0001
Dwarf Cassinia	*Cassinia diminuta*	507664	Rare	Dispersed	Habitat importance map	0.0001
White-throated Needletail	*Hirundapus caudacutus*	10334	Vulnerable	Dispersed	Habitat importance map	0.0001
Australian Little Bittern	*Ixobrychus dubius*	10195	Endangered	Dispersed	Habitat importance map	0.0001
Eastern Great Egret	*Ardea modesta*	10187	Vulnerable	Dispersed	Habitat importance map	0.0001
Intermediate Egret	*Ardea intermedia*	10186	Endangered	Dispersed	Habitat importance map	0.0001
Tufted Club-sedge	*Isolepis wakefieldiana*	501789	Rare	Dispersed	Habitat importance map	0.0001
Musk Duck	*Biziura lobata*	10217	Vulnerable	Dispersed	Habitat importance map	0.0001
Downy Swainson-pea	*Swainsona swainsonioides*	503328	Endangered	Dispersed	Habitat importance map	0.0000
Arching Flax-lily	*Dianella sp. aff. longifolia (Benambra)*	505560	Vulnerable	Dispersed	Habitat importance map	0.0000
Powerful Owl	*Ninox strenua*	10248	Vulnerable	Dispersed	Habitat importance map	0.0000
Hairy Hop-bush	*Dodonaea boroniifolia*	501087	Rare	Dispersed	Habitat importance map	0.0000
Murray River Turtle	*Emydura macquarii*	5135	Vulnerable	Dispersed	Habitat importance map	0.0000
Flat-headed Galaxias	*Galaxias rostratus*	4692	Vulnerable	Dispersed	Habitat importance map	0.0000
Freshwater Catfish	*Tandanus tandanus*	528545	Endangered	Dispersed	Habitat importance map	0.0000

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Red Swainson-pea	*Swainsona plagiotropis*	503324	Endangered	Dispersed	Habitat importance map	0.0000
Slender Darling-pea	*Swainsona murrayana*	503321	Endangered	Dispersed	Habitat importance map	0.0000
Murray-Darling Rainbowfish	*Melanotaenia fluviatilis*	4774	Vulnerable	Dispersed	Habitat importance map	0.0000
Grassland Velleia	*Velleia arguta*	503487	Rare	Dispersed	Habitat importance map	0.0000
Slender Mint-bush	*Prostanthera saxicola var. bracteolata*	502750	Rare	Dispersed	Habitat importance map	0.0000
Blue-billed Duck	*Oxyura australis*	10216	Endangered	Dispersed	Habitat importance map	0.0000
Plump Swamp Wallaby-grass	*Amphibromus pithogastrus*	503624	Endangered	Dispersed	Habitat importance map	0.0000
Murray Cod	*Maccullochella peelii*	4871	Vulnerable	Dispersed	Habitat importance map	0.0000
Large-headed Fireweed	*Senecio macrocarpus*	503116	Endangered	Dispersed	Habitat importance map	0.0000
Woolly Wattle	*Acacia lanigera var. lanigera*	505093	Rare	Dispersed	Habitat importance map	0.0000
Yellow Watercrown Grass	*Paspalidium flavidum*	507820	Endangered	Dispersed	Habitat importance map	0.0000
Flat-leaf Bush-pea	*Pultenaea platyphylla*	502865	Rare	Dispersed	Habitat importance map	0.0000
Swamp Everlasting	*Xerochrysum palustre*	503763	Vulnerable	Dispersed	Habitat importance map	0.0000
Broad-shelled Turtle	*Chelodina expansa*	5133	Endangered	Dispersed	Habitat importance map	0.0000
Brackish Plains Buttercup	*Ranunculus diminutus*	504314	Rare	Dispersed	Habitat importance map	0.0000
Curly Sedge	*Carex tasmanica*	500650	Vulnerable	Dispersed	Habitat importance map	0.0000
Little Egret	*Egretta garzetta nigripes*	10185	Endangered	Dispersed	Habitat importance map	0.0000
Plains Yam-daisy	*Microseris scapigera s.s.*	504657	Vulnerable	Dispersed	Habitat importance map	0.0000
Southern Toadlet	*Pseudophryne semimarmorata*	13125	Vulnerable	Dispersed	Habitat importance map	0.0000
Purple Blown-grass	*Lachnagrostis punicea subsp. punicea*	504206	Rare	Dispersed	Habitat importance map	0.0000
Swamp Fireweed	*Senecio psilocarpus*	504659	Vulnerable	Dispersed	Habitat importance map	0.0000
Small Burr-grass	*Tragus australianus*	503418	Rare	Dispersed	Habitat importance map	0.0000
Tough Scurf-pea	*Cullen tenax*	502776	Endangered	Dispersed	Habitat importance map	0.0000

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Hickory Wattle	*Acacia penninervis var. penninervis*	500074	Rare	Dispersed	Habitat importance map	0.0000
Spiny Lignum	*Duma horrida subsp. horrida*	502230	Rare	Dispersed	Habitat importance map	0.0000
Annual Fireweed	*Senecio glomeratus subsp. longifructus*	507144	Rare	Dispersed	Habitat importance map	0.0000
Gull-billed Tern	*Gelochelidon nilotica macrotarsa*	10111	Endangered	Dispersed	Habitat importance map	0.0000
Grey Falcon	*Falco hypoleucos*	10236	Endangered	Dispersed	Habitat importance map	0.0000
Dense Mint-bush	*Prostanthera decussata*	502739	Rare	Dispersed	Habitat importance map	0.0000
Australasian Bittern	*Botaurus poiciloptilus*	10197	Endangered	Dispersed	Habitat importance map ; special site	0.0000
Yellow Burr-daisy	*Calotis lappulacea*	500598	Rare	Dispersed	Habitat importance map	0.0000
White-bellied Sea-Eagle	*Haliaeetus leucogaster*	10226	Vulnerable	Dispersed	Habitat importance map	0.0000
Tussock Skink	*Pseudemoia pagenstecheri*	12993	Vulnerable	Dispersed	Habitat importance map	0.0000
Grey Goshawk	*Accipiter novaehollandiae novaehollandiae*	10220	Vulnerable	Dispersed	Habitat importance map	0.0000
Small Milkwort	*Comesperma polygaloides*	500798	Vulnerable	Dispersed	Habitat importance map	0.0000
Grey-headed Flying-fox	*Pteropus poliocephalus*	11280	Vulnerable	Dispersed	Habitat importance map	0.0000
One-flower Early Nancy	*Wurmbea uniflora*	503583	Rare	Dispersed	Habitat importance map	0.0000
Twiggy Sida	*Sida intricata*	503143	Vulnerable	Dispersed	Habitat importance map	0.0000
Freckled Duck	*Stictonetta naevosa*	10214	Endangered	Dispersed	Habitat importance map	0.0000
Common Bent-wing Bat (eastern ssp.)	*Miniopterus schreibersii oceanensis*	61342	Vulnerable	Dispersed	Habitat importance map	0.0000
Tremont Bundy	*Eucalyptus aff. goniocalyx (Dandenong Ranges)*	507008	Vulnerable	Dispersed	Habitat importance map	0.0000

SCENARIO TESTING

Habitat group

- Highly localised habitat means there is 2000 hectares or less mapped habitat for the species
- Dispersed habitat means there is more than 2000 hectares of mapped habitat for the species

Habitat impacted

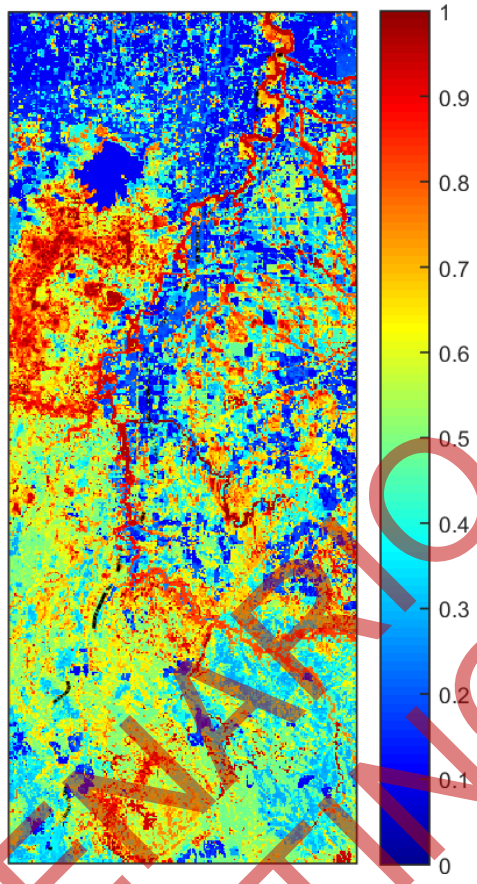
- Habitat importance maps are the maps defined in the Guidelines that include all the mapped habitat for a rare or threatened species

- Top ranking maps are the maps defined in the Guidelines that depict the important areas of a dispersed species habitat, developed from the highest habitat importance scores in dispersed species habitat maps and selected VBA records
- Selected VBA record is an area in Victoria that represents a large population, roosting or breeding site etc.

SCENARIO TESTING

Appendix 3 – Images of mapped native vegetation

2. Strategic biodiversity values map



SCENARIO TESTING

SCENARIO TESTING

Appendix F

Summary of Relevant Legislation

Appendix F - Summary of Relevant Legislation

TABLE F.1 SUMMARY OF LEGISLATION AND POLICY RELEVANT TO THIS ASSESSMENT

LEGISLATION / POLICY	DESCRIPTION
Commonwealth	
Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) Part 3 Division 1: Requirements relating to Matters of National Environmental Significance (MNES)	The EPBC Act has significant implications for natural resource and environmental management in Australia and provides for the listing and protection of threatened species, threatened ecological communities and key threatening processes. It also relates to actions likely to have a significant impact on Matters of National Environmental Significance (MNES). There are nine MNES: • World Heritage Sites • National Heritage Places • Ramsar Wetlands • Nationally threatened species and ecological communities • Migratory species • Commonwealth marine areas • Nuclear actions • Great Barrier Reef Marine Park • Water resources from coal seam gas development or large coal mining development
EPBC Act Part 10: Strategic Assessments (Melbourne Strategic Assessment; MSA)	The MSA is an agreement between the Commonwealth and Victorian Environment Departments, aimed at streamlining the approvals pathways for developments within the expanded Urban Growth Boundary. Under this agreement, assessment of the majority of biodiversity values listed at a Commonwealth and state level within the area has largely been completed and the required offsets for impacts within the area pre-defined. The MSA combines the management of both Commonwealth and State matters of environmental significance, implemented through the Biodiversity Conservation Strategy (BCS) (DEPI 2013) and various sub-regional species strategies. Where MNES occur within the MSA area, the referral mechanism of the EPBC Act is not triggered and appropriate Habitat Compensation Obligation (HCO) fees are to be paid in advance of the impacting construction activities commencing. Actions that are either outside the MSA program area, or not associated with urban development inside the MSA program area, are subject to Victoria's Native Vegetation Permitted Clearing Regulation under Clause 52.17 of the Planning Schemes and may also trigger the requirements for a referral under Part 7 of the EPBC Act. The BSC identifies land required to be protected from urban development and addresses all Commonwealth Matters of National Environmental Significance (MNES) and State significant matters known (at the time of BCS preparation) to occur within the growth corridors. As relevant to the Project, the threatened species and communities listed under the EPBC Act that have been assessed under the MSA are: • The threatened communities Natural Temperate Grassland of the VVP (equivalent to Plains Grassland EVC 132), Seasonal Herbaceous Wetlands (Freshwater) of the Lowlands Plains (can be synonymous with Plains Grassy Wetland EVC 125) and Grassy Eucalypt Woodlands of the VVPs (equivalent to Plains Grassy Woodland EVC 55); • Threatened fauna, including Golden Sun Moth, Striped Legless Lizard, Growling Grass Frog and Migratory-listed species; and • Threatened flora species, including the Matted Flax-lily. The MSA has identified the extent of native vegetation and areas of habitat for threatened species within their strategic assessment (DEPI, 2010). Areas with high biodiversity values have been identified as Conservation Areas to be retained in the Biodiversity Conservation Strategy (DEPI, 2013) whilst important habitats for threatened species have been identified under separate sub-regional strategies. Where projects impact on identified communities, species and appropriate habitat, offsets must be purchased for identified native vegetation and threatened species habitat as outlined in *Habitat Compensation under the Biodiversity Conservation Strategy* (DEPI, 2013), unless specifically identified.
State	
Environment Effects Act 1978 (EE Act)	The EE Act provides for the assessment of actions that are capable of having a significant environmental effect.0

LEGISLATION / POLICY	DESCRIPTION
	Actions which might have a significant environmental effect should be referred to the Victorian Minister for Planning, who decides if an Environment Effects Statement (EES) is required. An EES may be required where: • There is a likelihood of regionally or state significant adverse environmental effects • There is a need for an integrated assessment of social and economic effects of a project or relevant alternatives • Normal statutory processes would not provide a sufficiently comprehensive, integrated and transparent assessment
Planning and Environment Act 1987 (P&E Act)	A Planning Scheme Amendment (PSA) will be prepared for this project to introduce an Incorporated Document for securing approval for large scale infrastructure projects. A PSA provides for a coordinated and integrated approval mechanism where there are multiple approval triggers that span across multiple municipalities. Applications to remove, destroy, or lop native vegetation in Victoria invoke relevant municipal planning schemes and the Planning and Environment Act, which are given authority through the Victoria Planning Provisions (VPP). A range of exemptions apply under this Act. Depending on the scale of the native vegetation clearance, statutory referral to DELWP may be required and offsets necessary to be obtained. As relevant to this assessment, overlays intersected by the alignment in each Local Government Area include: Greater Shepparton: • Public Acquisition Overlay (POA4, PAO7) • Land Subject to Inundation (LSIO) • Bushfire Management Overlay (BMO) Mitchell: • Vegetation Protection Overlay (VPO1, VPO2) • Land Subject to Inundation (LSIO) • Environmental Significance Overlay (ESO3) • Erosion Management Overlay (EMO) • Bushfire Management Overlay (BMO) Strathbogie: • Public Acquisition Overlay (POA1) • Land Subject to Inundation (LSIO) Exemptions may apply for Railways or as otherwise stipulated within the Planning Schemes.
Guidelines for the removal, destruction or lopping of native vegetation (the Guideline) (DELWP 2017a)	The purpose of the Guideline is to guide how impacts on biodiversity should be considered when assessing an application for a permit to remove, lop or destroy native vegetation. Within the context of the Guideline, the term 'remove native vegetation' includes to lop, remove or destroy native vegetation.
Flora and Fauna Guarantee Act 1988 (FFG Act)	The FFG Act provides a framework for biodiversity conservation in Victoria. Threatened species and communities of flora and fauna, as well as threatening processes, are listed under this Act. Non-threatened flora species are also listed as protected under the FFG Act. A Permit to Take is required to remove these species from public land.
Catchment and Land Protection Act 1994 (CaLP Act)	The CaLP Act defines requirements to: • Avoid land degradation; • Conserve soil; • Protect water resources; and • Eradicate and prevent the spread and establishment of noxious weed and pest animal species. The Act defines four categories of noxious weeds: State Prohibited Weeds, Regionally Prohibited Weeds, Regionally Controlled Weeds and Restricted Weeds. Noxious weeds species and the category they are placed in is specific to individual CMA regions.
Wildlife Act 1975	The *Wildlife Act* 1975 forms the procedural, administrative and operational basis for the protection and conservation of native wildlife within Victoria. This Act often sits as the default reference for other associated legislation and is the basis for most Wildlife permit / licensing requirements within the state.
Department of environment, Land, Water and Planning (DELWP) Victorian Advisory Lists (Vic Adv)	The DELWP Victorian Advisory Lists (VicAdv) are not a statutory list of threatened species, but rather list species for which conservation management is recommended by DELWP. The VicAdv lists are comprised of the Advisory List of Rare or Threatened

LEGISLATION / POLICY	DESCRIPTION
	Plants in Victoria – 2014 (DEPI, 2014), the Advisory List of Threatened Vertebrate Fauna in Victoria – 2013 (DSE, 2013), and the Advisory List of Threatened Invertebrate Fauna in Victoria – 2009 (DSE, 2009). The presence, or likely presence, of a species listed on the VicAdv lists is used to determine whether species specific habitat is required to be offset.

Appendix G

Terrestrial Targeted Survey Mapping

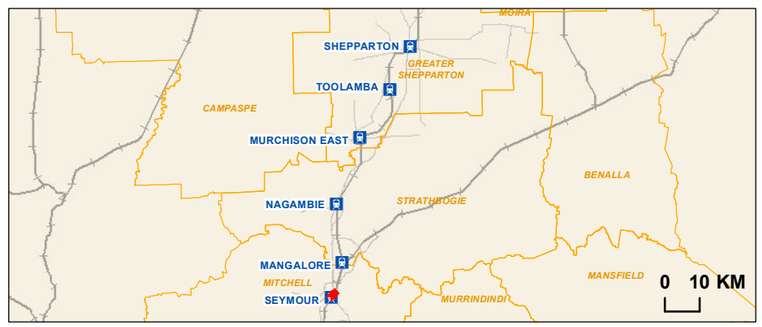
Rail station

Railway

Survey Transect Tile Locations

- Transect 1
- Transect 2
- Transect 3

Map 1 of 3
Transect 1



Data Sources:
AJM 2018
Vicmap 2018
DELWP 2016

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AJM Joint Venture — aurecon JACOBS M MOTT MACDONALD M

Regional Rail Revival
North-East & Shepparton

Striped Legless Lizard Survey Tile Locations

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Drawn By:	Approved By:	Date:	Map Size:
A. Mattinson	S. Waller	13/06/2019	A3

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Metres

Coordinate System: GDA 1994 MGA Zone 55

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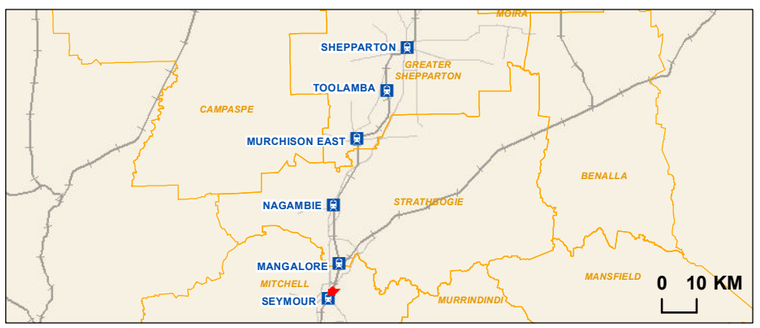
Rail station

Railway

Survey Transect Tile Locations

- Transect 1
- Transect 2
- Transect 3

Map 2 of 3
Transect 2



Data Sources:
AJM 2018
Vicmap 2018
DELWP 2016

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Striped Legless Lizard Survey Tile Locations

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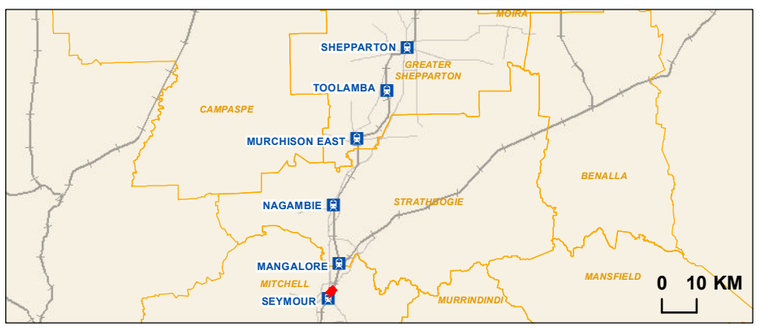
Rail station

Railway

Survey Transect Tile Locations

- Transect 1
- Transect 2
- Transect 3

Map 3 of 3
Transect 3



Data Sources:
AJM 2018
Vicmap 2018
DELWP 2016

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Striped Legless Lizard Survey Tile Locations

Drawing Number:	Revision:
NES-AJM-PWD-PWD-MAP-XEV-VIC-0419091	A.1

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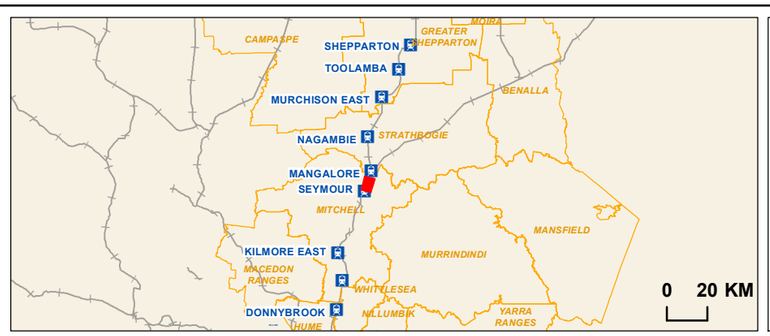
GOULBURN VALLEY HIGHWAY
REDBANK ROAD
GRANVILLE DRIVE
SEYMOUR-AVENEL ROAD
AVENEL ROAD
BACK MOUNTAIN ROAD
BROWNS LANE
HUME FREEWAY
TARCOMBE ROAD

DRAFT & CONFIDENTIAL

- Rail station
- Swift Parrot Point Survey
- Swift Parrot Driving Survey
- Project Area

Map 1 of 15



Data Sources:
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Vicmap 2018
Basemap: ESRI 2018

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Swift Parrot Survey Locations

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FOUR MILE CREEK

SEYMOUR-AVENEL ROAD

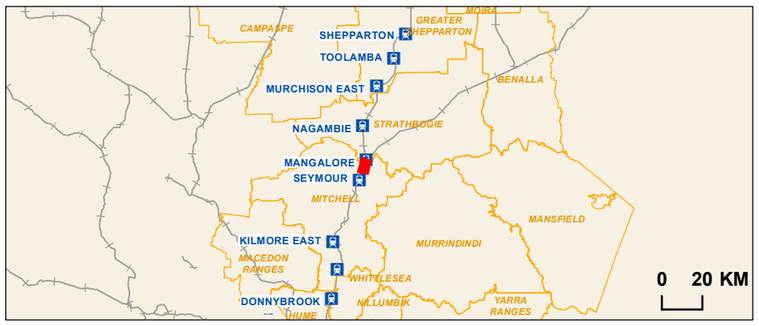
BROWNS LANE

HUME FREEWAY

DRAFT & CONFIDENTIAL

- Rail station
- Swift Parrot Point Survey
- Swift Parrot Driving Survey
- Project Area

Map 2 of 15



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Swift Parrot Survey Locations

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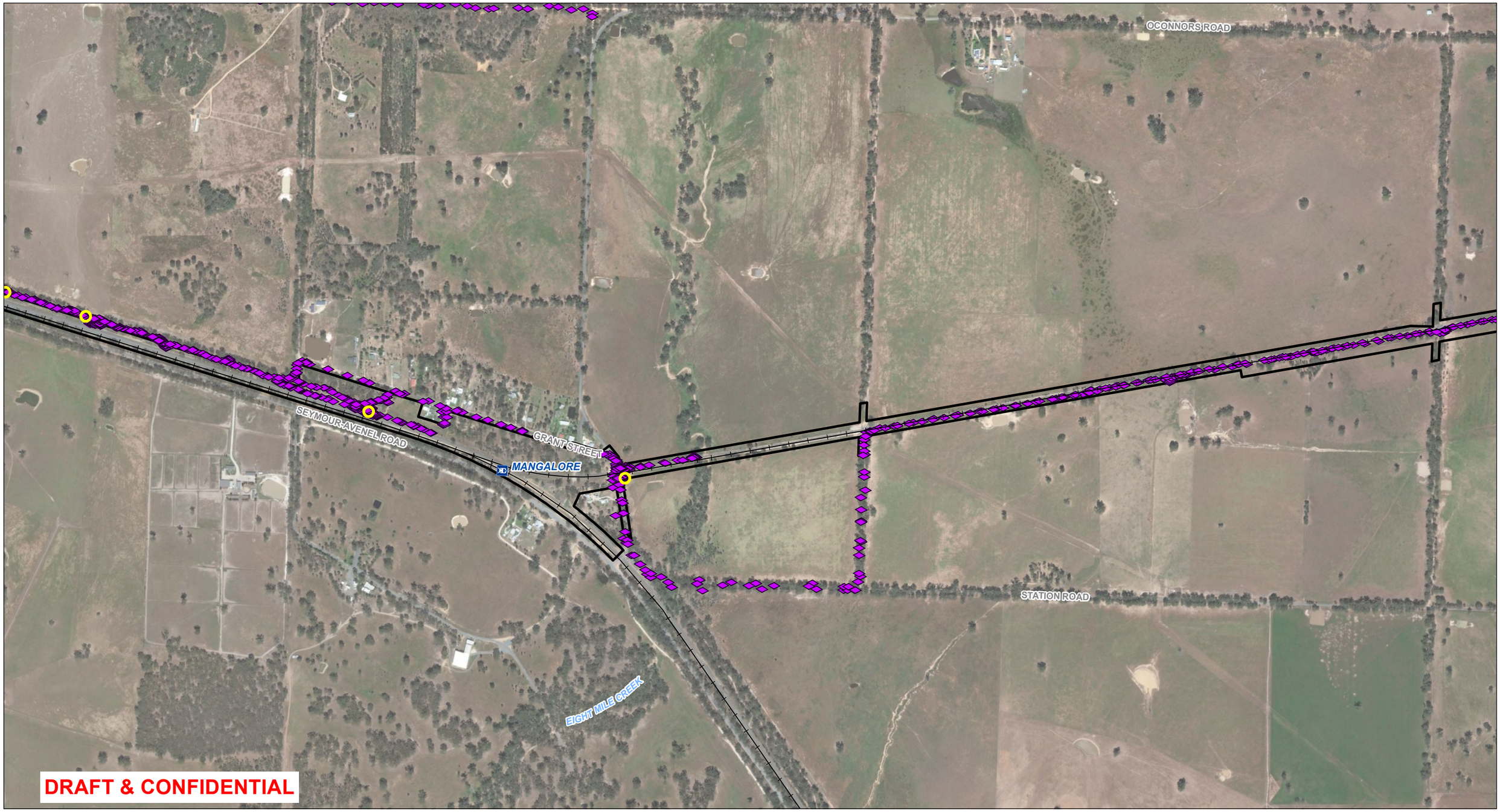

Rail station
Swift Parrot Point Survey
Swift Parrot Driving Survey
Project Area

Map 3 of 15

Data Sources:
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DELWP 2018
Vicmap 2018
Basemap: ESRI 2018

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FERGUSONS LANE

OCONNORS ROAD

AERODROME ROAD

MORISONS ROAD

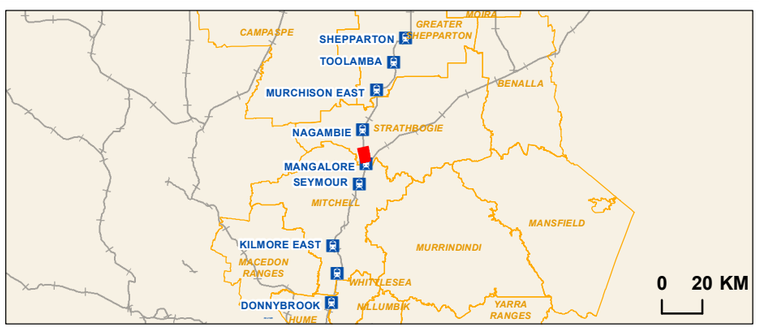
HUGHES CREEK

STATION ROAD

DRAFT & CONFIDENTIAL

- Rail station
- Swift Parrot Point Survey
- Swift Parrot Driving Survey
- Project Area

Map 4 of 15



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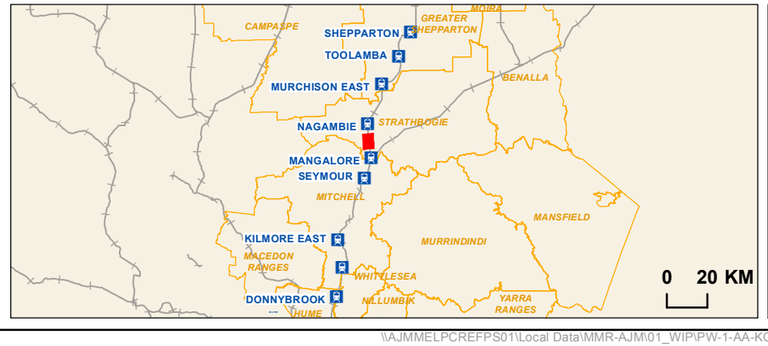
Rail station
Swift Parrot Point Survey
Swift Parrot Driving Survey
Project Area

Map 5 of 15



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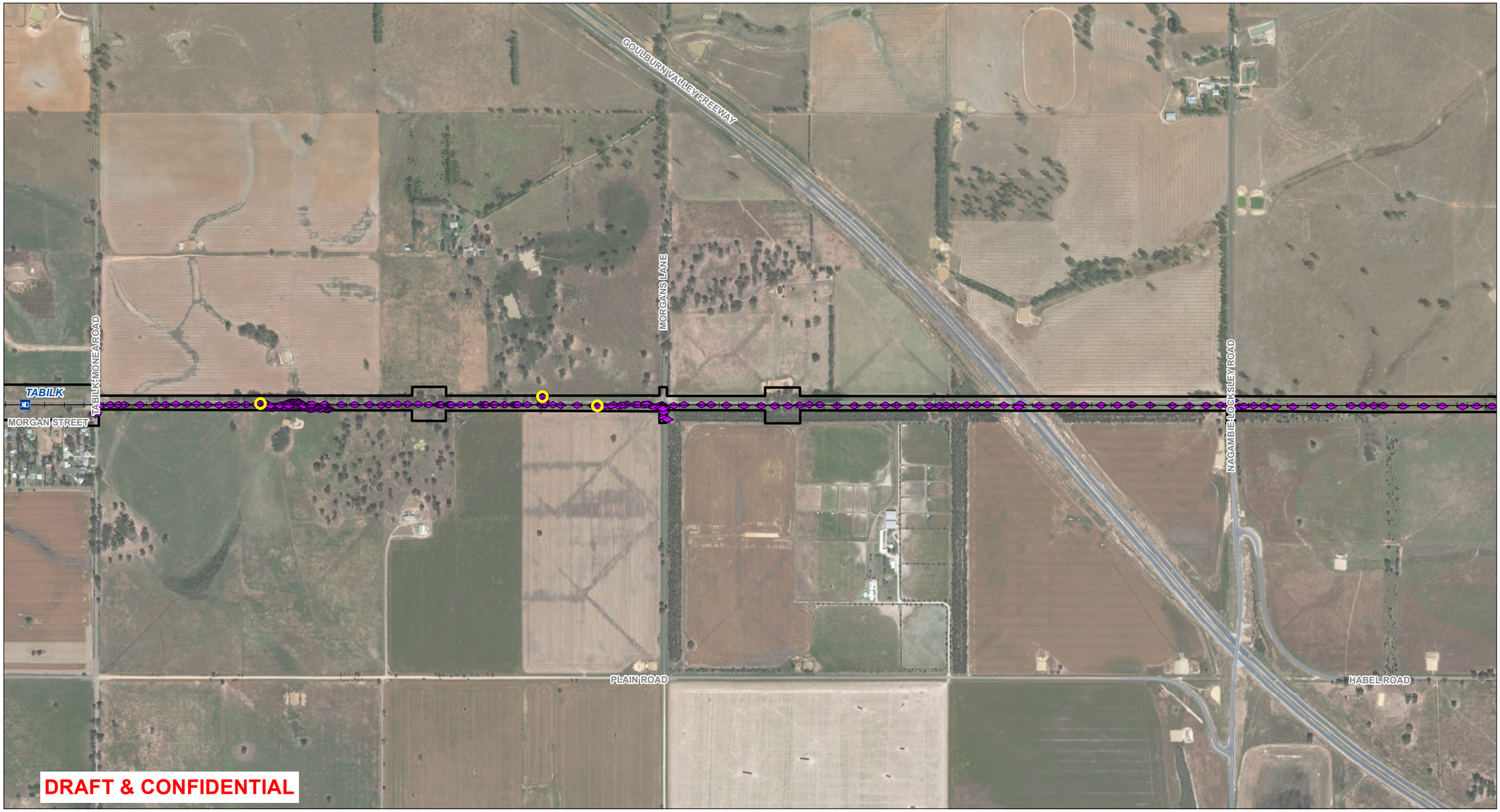
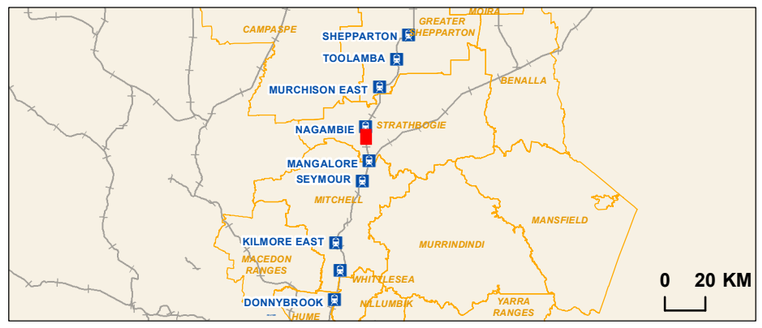


- Rail station
- Swift Parrot Point Survey
- Swift Parrot Driving Survey
- Project Area

Map 6 of 15



Data Sources:
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Swift Parrot Survey Locations

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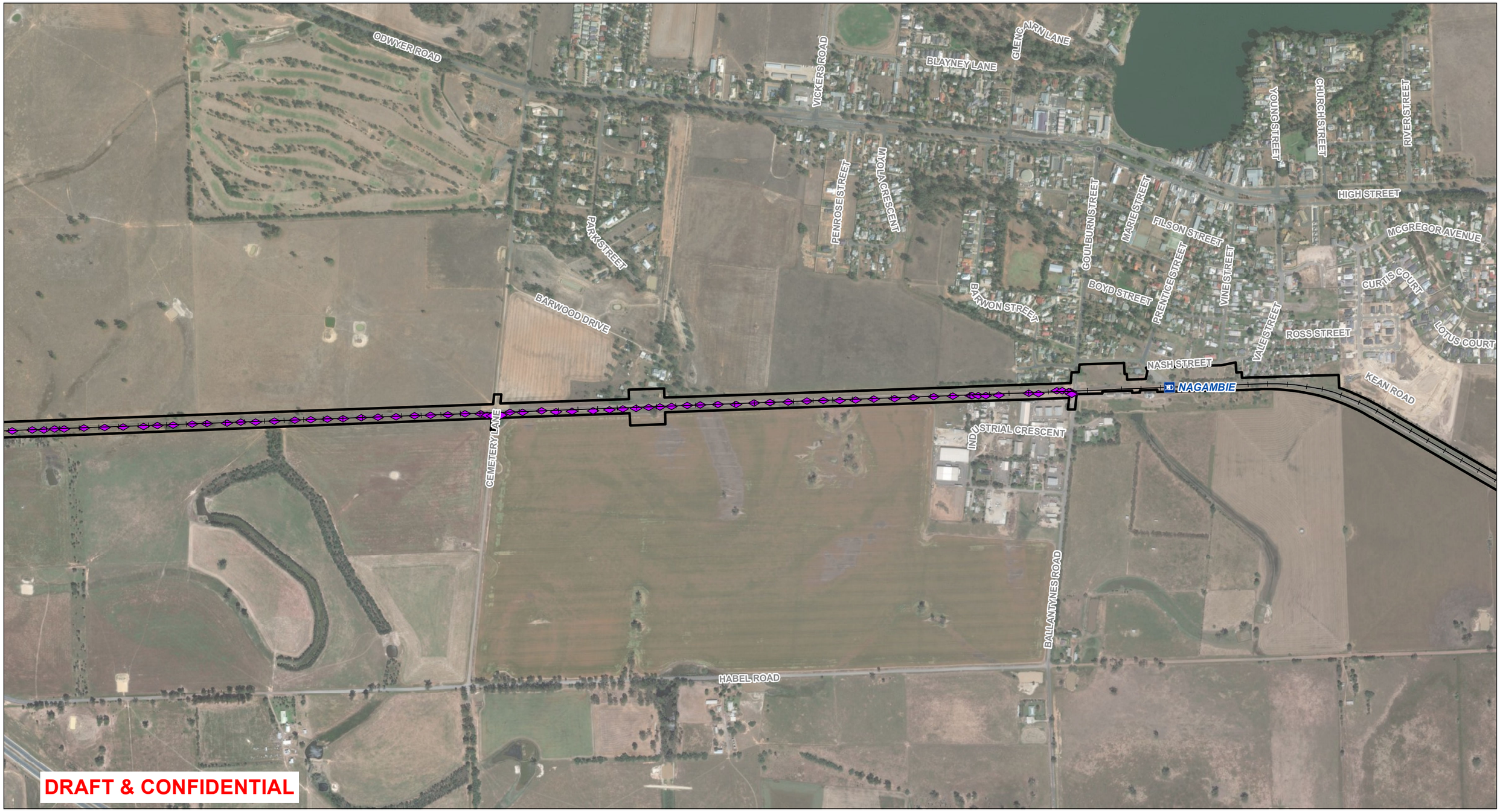
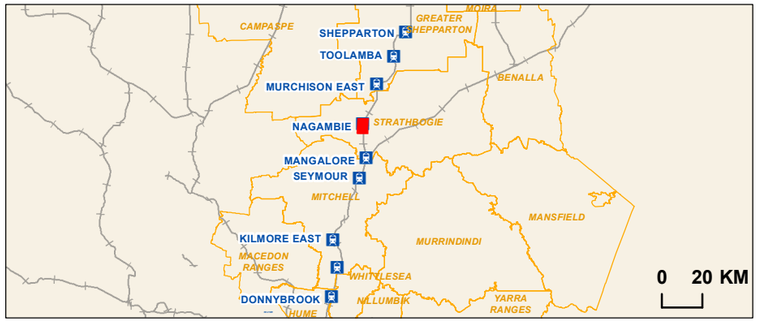


Rail station
Swift Parrot Point Survey
Swift Parrot Driving Survey
Project Area

Map 7 of 15



Data Sources:
AJM 2018
DELWP 2018
Vicmap 2018
Basemap: ESRI 2018

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Regional Rail Revival
North-East & Shepparton

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Metres
Coordinate System: GDA 1994 MGA Zone 55

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