

Appendix C

Threatened Species Likelihood Assessment



Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
LISTED FAUNA SPECIES									
<i>Jalmenus icilius</i>	Amethyst Hairstreak Butterfly	Vulnerable	L		Grassland, possibly associated with <i>A. pycnantha</i> (Britton and New, 1995).			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Struthidea cinerea</i>	Apostlebird		L		Open woodland around the Riverine area of northern Victoria, with available woody debris		<p>Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain an open understorey with logs:</p> <ul style="list-style-type: none"> • Seymour Avenel Road Overbridge (Seymour) • Hume Highway Seymour Precinct (Seymour) • Hume Highway Tallarook Precinct (Tallarook) • Track Slew Investigation Area D • Track Slew Investigation Area E • Track Slew Investigation Area H • Track Slew Investigation Area I 	All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	Y (VTWBC)
<i>Botaurus poiciloptilus</i>	Australasian Bittern	Endangered	L	EN	Still freshwater wetlands with tall dense vegetation, dominated by sedges, rushes, reeds or cutting grass (DOE 2011)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No

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<i>Prototroctes maraena</i>	Australian Grayling	Vulnerable	L	VU	Freshwater streams with high gravel substrate (Department of Environment and Energy)	Murray River Underbridge (Albury), however works will not impact the waterway		All other sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Ixobrychus dubius</i>	Australian Little Bittern	Endangered	L		Freshwater swamp habitats, usually where rushes, reeds, <i>Typha</i> , shrub thickets or other dense cover is inundated by at least 30cm of water. Will also inhabit small patches of suitable habitats along drains or small urban lakes (BA 2012)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Neochanna cleaveri</i>	Australian Mudfish	Critically Endangered	L		Freshwater habitats in coastal areas containing dense aquatic or inundated terrestrial vegetation with a mud or silt substrate (DSE 2003).	Murray River Underbridge (Albury), however works will not impact the waterway		All sites other are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Porzana pusilla palustris</i>	Baillon's Crane	Vulnerable	L		Vegetated wetlands, usually fresh or brackish water including			All sites are not likely to contain suitable habitat, either through past disturbance of the	No

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<i>Vermicella annulata</i>	Bandy Bandy	Vulnerable	L		temporarily inundated areas. Prefer wetlands with floating aquatic vegetation (BA 2019)			area or habitat features not present.	
<i>Ninox connivens</i>	Barking Owl	Endangered	L		Woodland and open forest, though is flexible and mobile in habitat use, utilising fragmented remnants, partially cleared farmland, closed forest and timbered watercourses in heavily modified habitats (OEH 2018)		Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain an open understorey with logs: <ul style="list-style-type: none"> Seymour Avenel Road Overbridge (Seymour) Hume Highway Seymour Precinct (Seymour) Hume Highway Tallarook Precinct (Tallarook) Track Slew Investigation Area D Track Slew Investigation Area E Track Slew Investigation Area H Track Slew Investigation Area I 	All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Limosa lapponica</i>	Bar-tailed Godwit			VU	Coastal habitats often near seagrass and saltmarsh, including			All sites are not likely to contain suitable habitat, either through past disturbance of the	No

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<i>Oxyura australis</i>	Blue-billed Duck	Endangered	L		brackish wetlands (DOE 2019a)			area or habitat features not present.	
					Favours deep permanent well-vegetated freshwater wetlands, particularly those containing rushes, sedges or lignum. Has also been recorded in saline conditions, especially during winter (DSE 2003m)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Pseudophryne bibronii</i>	Brown Toadlet	Endangered	L		Areas likely to be inundated after rain, including dry forests, woodland, shrubland, grassland, coastal swamps, heathland and sub-alpine areas. Possible preference for low pH soils (SWIFFT 2017)			All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	No
<i>Phascogale tapoatata</i>	Brush-tailed Phascogale	Vulnerable	L		Tracked Investigation Area E (Wangaratta Precinct (Wangaratta)) Impacts to these habitats are not proposed.			All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	Y

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		VROTS	FFG	EPBC		High	Moderate		Low
					500-2000mm (DSE 2003n)		<ul style="list-style-type: none"> Seymour Avenel Road Overbridge (Seymour) Hume Highway Seymour Precinct (Seymour) Hume Highway Tallarook Precinct (Tallarook) Track Slew Investigation Area D Track Slew Investigation Area E Track Slew Investigation Area H Track Slew Investigation Area I 		
<i>Burhinus grallarius</i>	Bush Stone-curlew	Endangered	L		Grassy woodland and open forest of Grey Box, River Red Gum and Yellow box with sparse ground cover of native grass and minimal shrubs. Also found in box ironbark forests (DSE 2004c)		<p>Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain an open understorey with logs:</p> <ul style="list-style-type: none"> Seymour Avenel Road Overbridge (Seymour) Hume Highway Seymour Precinct (Seymour) Hume Highway Tallarook Precinct (Tallarook) Track Slew Investigation Area D Track Slew Investigation Area E Track Slew Investigation Area H Track Slew Investigation Area I 	All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	Y (VTWBC)

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<i>Morelia spilota metcalfei</i>	Carpet Python	Endangered	L		Often found in River Red Gum forests and associated Black Box woodlands along major watercourses and rocky hills within Blakely's Red Gum woodlands, in addition to other vegetation types (DSE 2003o)			Low All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Hydroprogne caspia</i>	Caspian Tern	Near Threatened	L		Sheltered coastal areas, particularly with sandy and muddy edges, in addition to fresh or saline wetlands both near coastal and inland (DOE 2019b)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Miniopterus schreibersii oceanensis</i>	Common Bent-wing Bat (eastern ssp.)	Vulnerable	L		Caves, mines, and other built structures for roosting, and hibernation in cold caves. Forested areas for hunting (OEH 2017)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Calidris ferruginea</i>	Curtlew Sandpiper	Endangered		CR	Intertidal mudflats in sheltered coastal areas, as well as non-tidal wetlands near the coast. Also recorded inland around wetlands with bare edges of mud or			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No

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<i>Geopelia cuneata</i>	Diamond Dove	Near Threatened	L		sand, both fresh and brackish water (DOE 2019c) Dry open savannah in mulga areas often among spinifex or grasses, in addition to open riparian woodland (BA 2019)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Stagonopleura guttata</i>	Diamond Firetail	Near Threatened	L		Woodland areas with an open grass understorey.		<p>Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain an open understorey with logs:</p> <ul style="list-style-type: none"> • Seymour Avenel Road Overbridge (Seymour) • Hume Highway Seymour Precinct (Seymour) • Hume Highway Tallarook Precinct (Tallarook) • Track Slew Investigation Area D • Track Slew Investigation Area E • Track Slew Investigation Area H • Track Slew Investigation Area I 	All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	Y (VTWBC)
<i>Numenius madagascariensis</i>	Eastern Curlew	Vulnerable		CR	Sheltered coastal areas and estuaries, particularly saltmarsh and mudflat. More rarely			All sites are not likely to contain suitable habitat, either through past disturbance of the	No

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<i>Ardea modesta</i>	Eastern Great Egret	Vulnerable	L		found on ocean beaches (Tas 2019) Most wetlands including rivers, wetlands and intertidal mudflats.		Murray River Underbridge (Albury), however works will not impact the waterway	area or habitat features not present. All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Dasyurus viverrinus</i>	Eastern Quoll	Regionally Extinct	L	EN	Prefers dry grassland and forest mosaics bounded by agriculture. Also found in rainforests, heathland, alpine areas and scrub (PWS, 2015)(DSE, 2003)			All sites, species is considered extinct in Victoria	No
<i>Paralucia pyrodiscus lucida</i>	Eitham Copper Butterfly	Endangered	L	EN	Dry exposed sites along ridge-tops with grassy understorey and small individuals of <i>Bursaria spinosa</i> , and populations of <i>Notoncus</i> genus ants (DOE 2016)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Sternula nereis</i>	Fairy Tern	Endangered	L	VU	Sheltered sandy beaches, spits and banks between tideline and vegetation, also estuarine, lake islands and wetlands (DOE 2019d)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Stictonetta naevosa</i>	Freckled Duck	Endangered	L		Permanent swamps or flooded creeks			All sites are not likely to contain suitable habitat, either	No

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<i>Ogyris genoveva</i>	Genoveva Blue/Southern Purple Azure				containing Cumbungi and Lignum are favoured, species more mobile during dry conditions, utilising non-permanent wetlands in wet conditions (DSE 2004b)			through past disturbance of the area or habitat features not present.	
<i>Limnodynastes interioris</i>	Giant Bullfrog/Giant Banjo Frog	Vulnerable	L		Primarily found in low rainfall eucalypt woodland (PaDIL 2010)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Calyptorhynchus lathami</i>	Glossy Black-Cockatoo	Critically Endangered	L		Vegetation around dams, wetlands and streams, will also burrow into wet soil, so does not need to be near a waterbody (NCW 2012).			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Synemon plana</i>	Golden Sun Moth	Vulnerable	L	CR	Eucalypt forests and woodlands containing high density of Black She-oak (<i>Allocasuarina littoralis</i>). Rarely seen away from Black She-oak stands. (DSE 2013)			All sites, the species is mostly found in eastern Victoria, a vagrant single record from 1921 is close to the project area.	No
		Critically Endangered	L	CR	Open temperate grasslands with a rich abundance of wallaby grass tussocks. Known	Considered Moderate/High	Considered Moderate/High	All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	Y

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<i>Tympanocryptis pinguicollis</i>	Grassland Earless Dragon	Critically Endangered	L	EN	to occupy grasslands dominated by exotic stipoid grasses.	potential on grassland areas at Barry Road Overbridge (Dallas). Although the area adjacent to the road embankment was generally disturbed, there is likely to be habitat present, either native or exotic grassland.	<p>where native grassland may be present. These include:</p> <ul style="list-style-type: none"> Calder Freeway Precinct (Keilor East) Track Slew Investigation Area A Tullamarine Freeway Precinct (Strathmore Heights) Hume Highway Overbridge (Craigieburn) <p>May also occur in areas around Broadford, which contain sparsely treed areas with native grassy understorey. These include:</p> <ul style="list-style-type: none"> Short Street Overbridge (Broadford) Marchbanks Road Overbridge (Broadford) Track Slew Investigation Area H <p>However, impacts to potential habitat around Broadford have been avoided.</p>	All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No

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<i>Lichenostomus plumulus</i>	Grey Goshawk	Vulnerable	L		Rainforest, wet sclerophyll and woodland, in pairs or singularly (PWS 2011)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Pomatostomus temporalis</i>	Grey-crowned Babbler	Endangered	L		Woodlands and forests dominated by rough barked eucalypts, with a mixed shrub layer. Located north of the Great Dividing Range.			Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain an open understorey with logs: <ul style="list-style-type: none"> Seymour Avenel Road Overbridge (Seymour) Hume Highway Seymour Precinct (Seymour) Hume Highway Tallarook Precinct (Tallarook) Track Slew Investigation Area D Track Slew Investigation Area E Track Slew Investigation Area H Track Slew Investigation Area I 	Y (VTWBC)
<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	Vulnerable	L	VU	Rainforests, open forests, closed and open woodlands, <i>Melaleuca</i> swamps and <i>Banksia</i> woodlands. Roost sites are generally near water. Species is highly mobile and migrates to access			Highly mobile species that is likely to overfly and occasionally feed in planted and remnant trees, particularly around Melbourne, where there are known colonies. Unlikely to make significant use of any of the vegetation or habitat present.	No

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<i>Coracina maxima</i>	Ground Cuckoo-shrike		L		resources (DOE 2019f). Often occurring in urban settlements, with exotic food sources. Generally, inhabiting dry regions inland of the Great Dividing Range, in open country with sparse tree cover.		Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain an open understorey with logs: <ul style="list-style-type: none"> Seymour Avenel Road Overbridge (Seymour) Hume Highway Seymour Precinct (Seymour) Hume Highway Tallarook Precinct (Tallarook) Track Slew Investigation Area D Track Slew Investigation Area E Track Slew Investigation Area H Track Slew Investigation Area I 	All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	Y (VTWBC)
<i>Litoria raniformis</i>	Growing Grass Frog	Endangered	L	VU	A highly mobile species occupying slow-moving waterways and wetlands, including dams and old quarries, surrounded by grasslands. Aquatic habitat generally includes high levels of	High/Mode rate potential to occur at Hume Highway Overbridge (Craigieburn), near	The species has Moderate potential to occur at Track Slew Investigation Area C, which is located adjacent to the upper reaches of the Merri Creek. There is potential habitat within the eastern portion of Calder Freeway Precinct (Keilor East).	All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	Y

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					macrophytes and can handle mild salinity.	the northern end of the Investigator Area that is located adjacent to Malcolm Creek. This creek flows into Merri Creek, a known habitat corridor for the species, approximately 800 m downstream.	<p>The species also has Low/Moderate potential to occur around the Maribyrnong River and Moonee Ponds Creek, however, habitat is likely to be restricted. These include:</p> <ul style="list-style-type: none"> Track Slew Investigation Area A Tullamarine Freeway Precinct (Strathmore Heights) <p>Impacts to all of the above habitats have been avoided by the project.</p>		
<i>Melanodryas cucullata</i>	Hooded Robin	Near Threatened	L		Can occur in a variety of dry and open woodland areas, including scrub and mallee and is often littered with woody debris.		<p>Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain an open understorey with logs:</p> <ul style="list-style-type: none"> Seymour Avenel Road Overbridge (Seymour) 	All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	Y (VTWBC)

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<i>Ardea intermedia</i>	Intermediate Egret	Endangered	L		North and west Victoria in suitable wetlands (DSE 2000)		<ul style="list-style-type: none"> Hume Highway Seymour Precinct (Seymour) Hume Highway Tallarook Precinct (Tallarook) Track Slew Investigation Area D Track Slew Investigation Area E Track Slew Investigation Area H Track Slew Investigation Area I 		
<i>Acrodipsas brisbanensis</i>	Large Ant Blue Butterfly	Endangered	L		Open forest and woodland in central Victoria (DSE 2003h)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Charadrius mongolus</i>	Lesser Sand Plover	Vulnerable		EN	Coastal littoral and estuarine environments including intertidal sand/mudflats in sheltered bays, harbours and estuaries (DOE 2019g)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Rallus pectoralis</i>	Lewin's Rail	Vulnerable	L		Riparian and wetland vegetation with fresh, brackish or saline water (Department of			All sites are not likely to contain suitable habitat, either through past disturbance of the	No

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<i>Egretta garzetta nigripes</i>	Little Egret	Endangered	L		Environment and Energy) Mudflats, saltworks and shallow margins of tidal estuaries and inland rivers and lakes (DSE 2000)			Low area or habitat features not present. All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Macquaria australasica</i>	Macquarie Perch	Endangered	L	EN	Covered riverine areas with deep rocky holes. (SIA, Appendix D)	The species is known to occur in the Murray River located in the Murray River Underbridge (Albury) Investigation Area. However, works will not impact the waterway		All other sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Anseranas semipalmata</i>	Magpie Goose	Near Threatened	L		Coastal floodplains and wet grasslands, some younger individuals may be found inland (BIB 2019)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No

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<i>Maccullochia peelii</i>	Murray Cod	Vulnerable	L	VU	Distributed in warm water bodies. (SIA, Appendix D)	The species is known to occur in the Murray River located in the Murray River Underbridge (Albury) Investigation Area. However, works will not impact the waterway		All other sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Melanotaenia fluviatilis</i>	Murray River Rainbowfish	Vulnerable	L		Slow flowing rivers, wetlands and billabongs in the lowland parts of the Murray-Darling Basin (MDBC 2007a)	The species is known to occur in the Murray River located in the Murray River Underbridge (Albury) Investigation		All other sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No

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<i>Euastacus armatus</i>	Murray Spiny Crayfish	Near Threatened	L		Faster flowing cool water habitats in large and small streams with soft banks for digging burrows (DSE 2003k).	n Area. However, works will not impact the waterway	Murray River Underbridge (Albury), however works will not impact the waterway	All other sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Grantiella picta</i>	Painted Honeyeater	Vulnerable	L	VU	Open forests and woodlands dominated by Box ironbark, with high numbers of mistletoe.		Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain large trees and the species favoured food source, mistletoe: <ul style="list-style-type: none"> Beaconsfield Parade Overbridge (Glenrowan) 	All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	Y (VTWBC)
<i>Pedionomus torquatus</i>	Plains-wanderer	Critically Endangered	L	CR	Large, expansive areas of native grasslands with limited trees and shrubs			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Ninox strenua</i>	Powerful Owl	Vulnerable	L		Eastern Australia forests and dense woodlands, generally in densely treed areas with tall understorey, but also		Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain suitable	All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	Y (VTWBC)

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<i>Turnix pyrrhonorax</i>	Red Chested Button-quail				known to occur in urban areas with high prey densities.		<p>prey species and available nesting and roosting sites:</p> <ul style="list-style-type: none"> Seymour Avenel Road Overbridge (Seymour) Hume Highway Seymour Precinct (Seymour) Hume Highway Tallarook Precinct (Tallarook) Track Slew Investigation Area D Track Slew Investigation Area E Track Slew Investigation Area H Track Slew Investigation Area I 		No
<i>Anthochaera phrygia</i>	Regent Honeyeater	Critically Endangered	L	CR	Lowland forests and woodlands, particularly box-ironbark forests, often in close proximity to a water body.		<p>Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain large trees and the species favoured food source, mistletoe:</p> <ul style="list-style-type: none"> Seymour Avenel Road Overbridge (Seymour) Hume Highway Seymour Precinct (Seymour) 	<p>All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.</p> <p>All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.</p>	Y (VTWBC)

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<i>Thylogale billardierii</i>							<ul style="list-style-type: none"> Hume Highway Tallarook Precinct (Tallarook) Track Slew Investigation Area D Track Slew Investigation Area H Track Slew Investigation Area I Beaconsfield Parade Overbridge (Glenrowan) 		
<i>Rufous-bellied Pademelon</i>	Rufous-bellied Pademelon	Regionally Extinct	L		Rainforest and wet forest as well as wet gullies in dry open eucalypt forest (DPIPWE 2018)			All sites, species is considered extinct in Victoria	No
<i>Neophema splendida</i>	Scarlet-chested Parrot	Vulnerable	L		Mallee and mulga scrublands/open woodlands in semi-arid areas with spinifex and saltbush ground covers (OEH 2017a)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Budyanus budyanus</i>	Silver Perch	Vulnerable	L	CR	Found in a wide variety of freshwater habitats including rivers, large streams, lakes and impoundments (DSE 2005).	Murray River Underbridge (Albury), however works will not impact the waterway		All other sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Crinia sloanei</i>	Sloane's Froglet	-	-	EN	Prefers wetlands containing riparian and aquatic vegetation,			All sites are not likely to contain suitable habitat, either through past disturbance of the	No

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<i>Acrodipsas myrmecophila</i>	Small Ant Blue Butterfly	Critically Endangered	L		including temporary and permanent waterbodies in north central Victoria and central western NSW.			Low area or habitat features not present.	No
<i>Bettongia gaimardi gaimardi</i>	Southern Bettong/Eastern Bettong (mainland)	Extinct	L	EX	Likely associated with grassland areas, heathlands and sclerophyll woodland, species not recorded since the 1920s (DOE 2019h)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present. All sites, species is considered extinct	No
<i>Isoodon obesulus obesulus</i>	Southern Brown Bandicoot	Near Threatened	L	CR	Heathland, shrubland, sedgeland, heathy open forest and woodland, often on infertile, sandy, well drained soils. Within these habitats the species utilises areas of dense ground cover, of either native or introduced species (DOE 2019i).			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Mogurnda adspersa</i>	Southern Purple-	Regionally Extinct	L		Slow moving or still water in creeks, rivers,	Murray River		All other sites are not likely to contain suitable habitat, either	No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
	spotted Gudgeon				wetlands and billabongs with aquatic vegetation. Prefers deeper habitats (MDBC 2007b)	Underbridge (Albury), however works will not impact the waterway		through past disturbance of the area or habitat features not present.	
<i>Chthonicola sagittata</i>	Speckled Warbler	Vulnerable	L		Open eucalypt dominated communities with native tussock grass understorey and a sparse shrub layer. Often located on rocky ridges or in gullies.(OEH 2017b)		Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain large trees and the species favoured food source, mistletoe: <ul style="list-style-type: none"> Seymour Avenel Road Overbridge (Seymour) Hume Highway Seymour Precinct (Seymour) Hume Highway Tallarook Precinct (Tallarook) Track Slew Investigation Area D Track Slew Investigation Area H Track Slew Investigation Area I Beaconsfield Parade Overbridge (Glenrowan) 	All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	Y (VTWBC)
<i>Dasyurus maculatus maculatus</i>	Spot-tailed Quoll	Endangered	L	EN	Utilises a wide variety of mature wet forest habitats (DOE 2019)			All sites are not likely to contain suitable habitat, either through past disturbance of the	No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Lophoictinia isura</i>	Square-Tailed Kite	Vulnerable	L		Combination of dry forests and woodland areas, preference for timbered watercourses (OEH 2017c)			area or habitat features not present. All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Petaurus norfolcensis</i>	Squirrel Glider	Endangered	L		Dry forests and woodlands on inland slopes, between riparian corridors.		<p>Sites contiguous with other woodland habitats and with areas likely to contain large and hollow-bearing trees.</p> <ul style="list-style-type: none"> Seymour Avenel Road Overbridge (Seymour) Hume Highway Seymour Precinct (Seymour) Hume Highway Tallarook Precinct (Tallarook) Track Slew Investigation Area D Track Slew Investigation Area H Track Slew Investigation Area I Murray River Bridge 	All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	Y
<i>Delma impar</i>	Striped Legless Lizard	Endangered	L	VU	Native grasslands with dense spear-grass vegetation, particularly with surface rocks and cracking soils that provide habitat. Isolated occurrences around Broadford.		<p>Potential grassland habitat occurs in several locations, including:</p> <ul style="list-style-type: none"> McIntyre Road Overbridge (Sunshine) Calder Freeway Precinct (Keilor East) Tullamarine Freeway Precinct (Strathmore Heights) 	All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N	
		VROTS	FFG	EPBC		High	Moderate	Low		
<i>Polytelis swainsonii</i>	Superb Parrot	Endangered	L	VU	Forests dominated by eucalypts, particularly river red gum, yellow box or grey box. In Victoria it is confined to the north, mainly around Barmah State Forest/State Park (Baker-Gabb 2011).	High	Moderate <ul style="list-style-type: none"> Barry Road Overbridge (Dallas) Hume Highway, Craigieburn Track Slew Investigation Area C <p>There is also a Low/Moderate potential for the species to occur in sparsely treed, grassy woodland areas, including an area identified at Track Slew G, which will be avoided.</p>	Low	No	
<i>Lathamus discolor</i>	Swift Parrot	Endangered	L	EN	Flowering dry open grassy woodlands, box-ironbark forests, parks, gardens, and other coastal forests in Victoria during winter months. Migratory, breeding in Tasmania (TSSC 2016)	High	Moderate <p>Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain large trees.</p> <ul style="list-style-type: none"> Seymour Avenel Road Overbridge (Seymour) Hume Highway Seymour Precinct (Seymour) Hume Highway Tallarook Precinct (Tallarook) 	Low	All sites are unlikely to contain suitable habitat, either through past disturbance or not present.	Y (VTWBC)

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Maccullochella macquariensis</i>	Trout Cod	Critically Endangered	L	EN	Deep riverbank systems littered with large woody debris. (SIA, Appendix D)	<p>High</p> <p>Murray River Underbridge (Albury), however works will not impact the waterway</p>	<p>Moderate</p> <ul style="list-style-type: none"> Track Slew Investigation Area D Track Slew Investigation Area H Track Slew Investigation Area I Beaconsfield Parade Overbridge (Glenrowan) 	<p>Low</p> <p>All other sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.</p>	No
<i>Neophema pulchella</i>	Turquoise Parrot	Near Threatened	L		Eucalypt woodlands and open forests with a high ground cover of grasses and shrubs. (SIA, Appendix D)	<p>High</p> <p>Sites considered part of the Victorian Woodland Bird Community and contiguous with other woodland habitats and with areas likely to contain large trees:</p> <ul style="list-style-type: none"> Seymour Avenel Road Overbridge (Seymour) Hume Highway Seymour Precinct (Seymour) Hume Highway Tallarook Precinct (Tallarook) Track Slew Investigation Area D Track Slew Investigation Area H Track Slew Investigation Area I 	<p>Moderate</p> <p>All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.</p>	<p>Low</p> <p>All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.</p>	Y (VTWBC)

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle	Vulnerable	L		Coastal water bodies, rivers and fresh saline lakes. (SIA, Appendix D)		<ul style="list-style-type: none"> Beaconsfield Parade Overbridge (Glenrowan) 		No
<i>Hirundapus caudacutus</i>	White-throated Noddy	Vulnerable	L	VU	Aerial, occurring in a wide range of habitats, most often above wooded areas.				
<i>Saccolaimus flaviventris</i>	Yellow-bellied Shearwater	Data Deficient	L		Roosts in tree hollows or buildings, forages in most habitats, with and without trees. Known to utilise mammal burrows in absence of hollows (OEH, 2017d)				No
LISTED FLORA SPECIES									
<i>Thesium australe</i>	Austral Toad-flax	Vulnerable	L	VU	Damp and inundated grasslands and woodlands (MEN301)				No
<i>Lepidium hyssopifolium</i> s.s.	Basalt Peppercress	Endangered	L	EN	Basalt plain north and north/east of Melbourne (LXRA)				No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Thelymitra gregaria</i>	Basalt Sun-orchid	Endangered	L		Open species rich grassland dominated by <i>Themeda triandra</i> and containing perennial herbs and lilies. Poorly drained red-brown basalt soils (DSE 2002).			area or habitat features not present.	No
<i>Pterostylis truncata</i>	Brittle Greenhood	Endangered	L		Grasslands to woodlands on a variety of soils, within a 65km radius of Melbourne (DSE 2003d)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Allocasuarina luehmanna</i>	Buloke	Endangered	L		Interspersed between grassland and eucalypt woodlands, in Buloke Woodlands where it is the dominant or co-dominant tree. Often on heavy loam, where fire is infrequent (DSE 2011)	Species identified at Seymour Avenel Road Overbridge (Seymour). Populations are known within the rail corridor further north of the		All other sites are unlikely to contain suitable habitat, either through past disturbance or not present.	No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High Investigation Area	Moderate	Low	
<i>Rufidosis leptorhynchoides</i>	Button WrinKewort	Endangered	L	EN	Distributed within the ecotone of grass and tussock vegetation. Dominates temperate grasslands and red gum woodlands. (MEN301)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Caladenia concolor</i>	Crimson spider-orchid	Endangered	L	VU					No
<i>Carex tasmanica</i>	Curly Sedge	Vulnerable	L		Basalt derived wet clay soils, generally on sites without trees. A population exists north of Melbourne, including in the Craigieburn Nature Conservation Reserve (DSE 2009).			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Calotis anthemoides</i>	Cut-leaf Burr-daisy		L		Open grassland, in damp areas or depressions (PN 1992). Found on heavy soils prone to waterlogging (VF 2009)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Brachyscome gracilis</i> subsp. <i>gracilis</i>	Dookie Daisy	Vulnerable	L		Dry inland areas where it grows on rocks and rocky outcrops (SIA Appendix D)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Swainsona swainsonoides</i>	Downy Swainson-pea	Endangered	L		Heavy cracking clays seasonally inundated. Associated with Black Box or Grey Box-Buloke woodland, and Wallaby-grasses, spear-grasses, rising panic, Spider Grass and Bluebushes, in often highly weedy sites (2003f)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Hibbertia humifusa</i> subsp. <i>erigens</i>	Euroa Guinea-flower	Vulnerable	L	VU	Eucalypt woodland with a tall <i>Acacia</i> understorey, or Buloke woodland, on shallow sandy loams to gravelly clay loams (DSE 2006)			The species is known to occur in the rail reserve south of Euroa. Potential habitat may occur in similar habitats north of Seymour at the following locations: <ul style="list-style-type: none"> Hume Highway Seymour Precinct (Seymour) Track Slew Investigation Area H Track Slew Investigation Area I 	No
<i>Prasophyllum suaveolens</i>	Fragrant Leek-orchid	Endangered	L	EN	Open grasslands that are species rich and dominated by <i>Themeda triandra</i> on poorly drained basalt-derived soil (DSE 2003c).			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Xanthorrhoea glauca</i> subsp. <i>angustifolia</i>	Grey Grass-tree	Endangered	L		Rocky northern slopes of the Great Dividing Range in Eucalypt forests, particularly <i>E.</i>			All sites are not likely to contain suitable habitat, either through past disturbance of the	No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Leucochrysum albicans</i> subsp. <i>tricolor</i>	Hoary Sunray	Endangered	L	EN	<i>macrohyncha</i> and <i>E. dives</i> (VF 2001) In Victoria the species occurs in grasslands dominated by <i>Themeda triandra</i> , <i>Austrodanthonia</i> spp. and <i>Dichelachne crinita</i>			area or habitat features not present. All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Swainsona refulcata</i>	Kneed Swainson-pea	Vulnerable	L		Black Box or Grey Box-Buloke woodland near lakes or swamps. Record near Wodonga (grassy plains near Lake Hume) now presumed extinct (2003f).			All sites, species presumed extinct in Victoria.	No
<i>Geranium</i> sp. 1	Large-flower Crane's-bill	Endangered	L		Basaltic grassland in the Glenroy-Broadmeadows area, Riddells Creek and Malmesbury. Habitat areas are now generally degraded, and it was assumed extinct before being rediscovered in 2000 (VicFlora).	Specimens of Geranium species, observed at Barry Road Overbridge (Dallas), are likely to be the large-flowered crane's-bill. High	Moderate potential for the species to occur at Hume Highway Overbridge (Craigieburn) Investigation Area.	All other sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Eucalyptus leucoxylon</i> subsp. <i>megalocarpa</i> ^a	Large-fruit Yellow-gum	Endangered	L		This species naturally occurs near Nelson on the south-west coast of Victoria. The species has been cultivated and used widely as a landscape and roadside tree.	potential for the species to occur at Barry Road Overbridge (Dallas).			No
<i>Senecio macrocarpus</i>	Large-headed Fireweed	Endangered	L	VU	Occurs in <i>Themeda</i> grasslands on loamy basalt-derived clay soils west of Melbourne to Skipton area (LXRA)			Potential habitats near the species known range in western Melbourne are generally modified and habitat is considered disturbed and no longer present.	No
<i>Pterostylis cucullata</i> subsp. <i>cucullata</i>	Leafy Greenhood	Endangered	L	VU	Distributed sparsely along coastal regions, growing within closed scrubland slopes and coastal sand dunes. Also grows within moist forest slopes and riparian habitat. (NE2 Core			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Dianella amoena</i>	Matted Flax-lily	Endangered	L	EN	Works and Signal Scope) Occurs in Grassy woodlands and grassy forest environments, mainly from north of Melbourne to the South-east suburbs. Can occur in high densities, usually with regular removal of grassy biomass, as it is outcompeted by large pasture grasses.	Considered Moderate/High likelihood at Hume Highway Overbridge (Craigieburn). Several recent records existing for the species, including near the northern end of the Investigation Area, which appears to be less modified.	Species known to occur in the rail corridor around Broadmeadows and Craigieburn, however. Moderate potential to occur at: <ul style="list-style-type: none"> Track Slew C (Wallan) 	All other sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	Y
<i>Swainsona recta</i>	Mountain Swainson-pea	Endangered	L	EN	Grassy woodlands usually containing eucalypts, with an	Considered Low/Moderate. This species has been recorded near the rail reserve south of	Considered Low/Moderate. This species has been recorded near the rail reserve south of	All other sites are not likely to contain suitable habitat, either through past disturbance of the	No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Goodenia macharronii</i>	Narrow Goodenia	Vulnerable	L		understorey dominated by <i>Themeda trianda</i> , <i>Poa sieberiana</i> and <i>Stipa</i> spp. (OEH 2012)		Glenrowan. Similar habitat may occur in the Beaconsfield Parade Overbridge (Glenrowan) Investigation Area.	area or habitat features not present.	No
<i>Santalum lanceolatum</i>	Northern Sandalwood	Endangered	L		Sandy to clay/silt soils located on the inland foothills of the Great Dividing Range, where conditions are damp to wet (DSE 2003b).			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Lindsaea trichomanoides</i>	Oval Wedge-fern	Endangered	L		Well drained granite soils, and low open eucalypt woodland (DSE 2003e)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Amphibromus pithogastrus</i>	Plump Swamp Wallaby-grass	Endangered	L		Grows in dry sites in lowland to montane forest and shrubland (LXRA)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Diuris punctata</i>	Purple Diuris	Vulnerable	L		Swampy depressions in black volcanic clay soils near Craigieburn and at Whitestone swamp near Ercildoune, in addition to a 1940 collection near Mansfield (LXRA)		Known from high quality grassy woodland in the rail corridor between Glenrowan and	All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Swainsona plagiotropis</i>	Red Swainson-pea	Endangered	L	VU	Kangaroo grass and forbs.		Wangaratta. The Investigation Area at Beaconsfield Parade Overbridge (Glenrowan), Seymour-Avenel Road and Hume Freeway, Seymour, may have potential habitat for the species.	Low area or habitat features not present.	No
<i>Myriophyllum porcatum</i>	Ridged Water-milfoil	Vulnerable	L	VU	Heavy red soils, associated with Wallaby-grasses and spear-grasses and complex herbaceous profiles (2003f). Shallow ephemeral wetlands including highly modified locations. Species possibly survives in the seedbank of dry wetlands (DSE 2008).			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Amphibromus fluitans</i>	River Swamp Wallaby-grass		L	VU	Generally occurs in permanent swamps along the Murray River between Wodonga and Echuca, but also recorded in ephemeral and damp areas (SIA Appendix D, LXRA)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Isolepis congrua</i>	Slender Club-sedge	Vulnerable	L		Grows on dayey sand, loam, sandy clay soils in a variety of habitats			All sites are not likely to contain suitable habitat, either through past disturbance of the	No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Diuris basaltica</i>	Small Golden Moths	Endangered	L	EN	including creeks, clay pans and winter wet depressions (FB 1998). Herb-rich <i>Themeda triandra</i> native grasslands, on heavy basaltic soils, all known populations are within areas of NTG ecological community (DOE 2019k)			area or habitat features not present.	No
<i>Comesperma polygaloides</i>	Small Milkwort	Vulnerable	L		Native grasslands dominated by <i>Themeda</i> , <i>Poa labillardieri</i> <i>Danthonia</i> or <i>Stipa</i> grasses (DSE 2004a).			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Cullen parvum</i>	Small Scurf-pea	Endangered	L		Grassland and grassy woodland subject to irregular flooding (DSE 2003a)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Pimelea spinescens</i> subsp. <i>spinescens</i>	Spiny Rice-flower	Critically Endangered	L	CR	Grasslands or open shrubland on basalt-derived soils, often dominated by <i>Themeda triandra</i> , <i>Austrostipa</i> sp. and <i>Austrodanthonia</i> sp. (DSE 2006b)	The species is known to occur within and adjacent to McIntyre Road Overbridge (Sunshine)		The species is known to occur in adjacent grassland habitats south of the Maribyrnong River. Most other sites are not likely to contain the species or habitat, due to locations outside natural range or due to previous habitat disturbance.	Y

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Diuris fragrantissima</i>	Sunshine Diuris	Endangered	L	EN	Native grasslands west of Melbourne dominated by <i>Themeda triandra</i> on heavy basalt soils (DSE 2004d)	, at the northern end.		All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Diuris palustris</i>	Swamp Diuris	Vulnerable	L		Grassy open eucalypt forest, sedgy grasslands and heathland with teatree and paperbark on poorly drained sandy peat and loams in coastal areas (TSL 2019)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Senecio psilocarpus</i>	Swamp Fireweed	Vulnerable		VU	High quality herb-rich wetlands on plains, inundated with up to 60cm or more of water, and dry in summer. Usually tree layer is absent, but sometimes can be comprised of <i>E. camaldulensis</i> (DOE 2008).		Potential for the species is to occur in areas that may become inundated. Sites include: <ul style="list-style-type: none"> Track Slew Investigation Area C 	All other sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Xerochrysum palustre</i>	Swamp Everlasting	Vulnerable	L	VU	Sedge-rich swamps and wetlands, usually on black cracking soils (DSE 2008b)		Potential for the species is to occur in areas that may become inundated. Sites include: <ul style="list-style-type: none"> Track Slew Investigation Area C 	All other sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No

Scientific Name	Common Name	Conservation Significance			Habitat Requirements	Likelihood of occurrence			Targeted Survey Y/N
		VROTS	FFG	EPBC		High	Moderate	Low	
<i>Cullen tenax</i>	Tough Scurf-pea	Endangered	L		Grassland and grassy woodland on heavier soils in drier areas (VF 2019)		Moderate potential to occur, where native grasslands are potentially present, including: <ul style="list-style-type: none"> McIntyre Road Overbridge (Sunshine) 	area or habitat features not present. All other sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No
<i>Brasenia schreberi</i>	Water Shield	Vulnerable	L		Shallow lagoons and still wetlands, requires permanent water for plant to remain submerged (VF 2016)			All sites are not likely to contain suitable habitat, either through past disturbance of the area or habitat features not present.	No

VTWBC – Species is listed as a part of the Victorian Temperate Woodland Bird Community Threatened Community under the FFG Act

http://www.environment.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon_id=21980 (Department of Environment and Energy)
<https://vicflora.rbq.vic.gov.au/> (Vic Flora)

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Appendix D

Ecological Features
Maps





Tottanhan TO Albury

Ecological Features Map

0 130 260 m

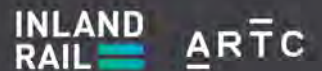
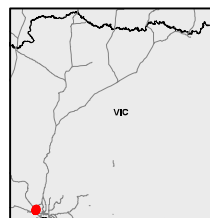
Coordinate System: GDA 1994 MGA Zone 55

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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:7,000
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Signal Gantry
- Project
- Investigation Area (2018, 2019)

- Environment Data**
- Plains Grassland
 - Scattered Tree Small
- Threatened Community**
- EPBC Community
 - Natural Temperate Grassland
 - FFG Community
 - Western (Basalt) Plains Grassland
 - ▲ Spiny Rice Flower



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Tottenham TO Albury

Ecological Features Map

0 30 60
m

Coordinate System: GDA 1994 MGA Zone 55

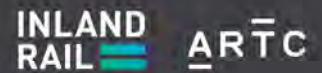
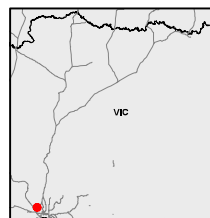
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Date: 04-Dec-19 Paper: A3
Author: JC Scale: 1:2,000
Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Signal Gantry
- Project Investigation Area (2018, 2019)

- Environment Data
- Plains Grassland

Threatened Community



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Tottenham TO Albury Ecological Features Map MAP 3 OF 39

0 25 50 m

Coordinate System: GDA 1994 MGA Zone 55

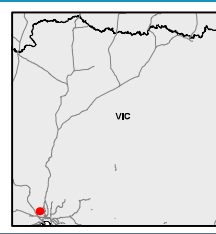
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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:1,300
 Data Sources: ARTC, VicMap, DataVIC

--- VicTrack Reserve
 ● Signal Gantry
 ■ Project Investigation Area (2018, 2019)

Environment Data Threatened Community



INLAND RAIL **ARTC**

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Tottenham TO Albury

Ecological Features Map

0 75 150 m
 Coordinate System: GDA 1994 MGA Zone 55

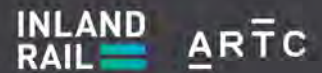
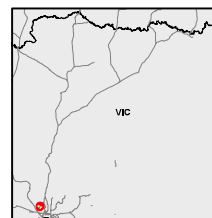
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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:4,000
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Project
- Investigation Area (2018, 2019)

- Environment Data**
- Plains Grassland
 - Scattered Tree Small

- Threatened Community**
- EPBC Community
 - Natural Temperate Grassland
 - FFG Community
 - Western (Basalt) Plains Grassland



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Track Slew Investigation Area A

TSA_HZ01
TSA_HZ02

24km

Tullamarine Freeway Precinct
(Strathmore Heights)

TF_ST312

TF_ST313

TF_HZ01

TF_ST358

TF_HZ02

TF_ST359

23km

Westfield Drive
Overbridge (Tullamarine)

WD_HZ02
WD_HZ01

WD_ST671

Tottenham TO Albury

Ecological Features Map

0 90 180 m
Coordinate System: GDA 1994 MGA Zone 55

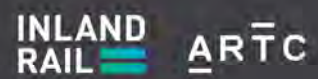
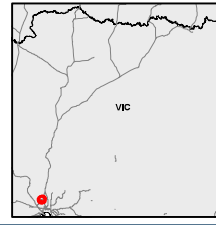
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Date: 04-Dec-19 Paper: A3
Author: JC Scale: 1:5,000
Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Signal Gantry
- Project
- Investigation Area (2018, 2019)

- Environment Data
- Creekline Grassy Woodland
 - Plains Grassland
 - Plains Grassy Woodland
 - Scattered Tree Small

Threatened Community



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Tottenham TO Albury Ecological Features Map MAP 6 OF 39

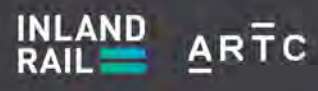
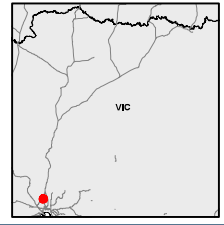
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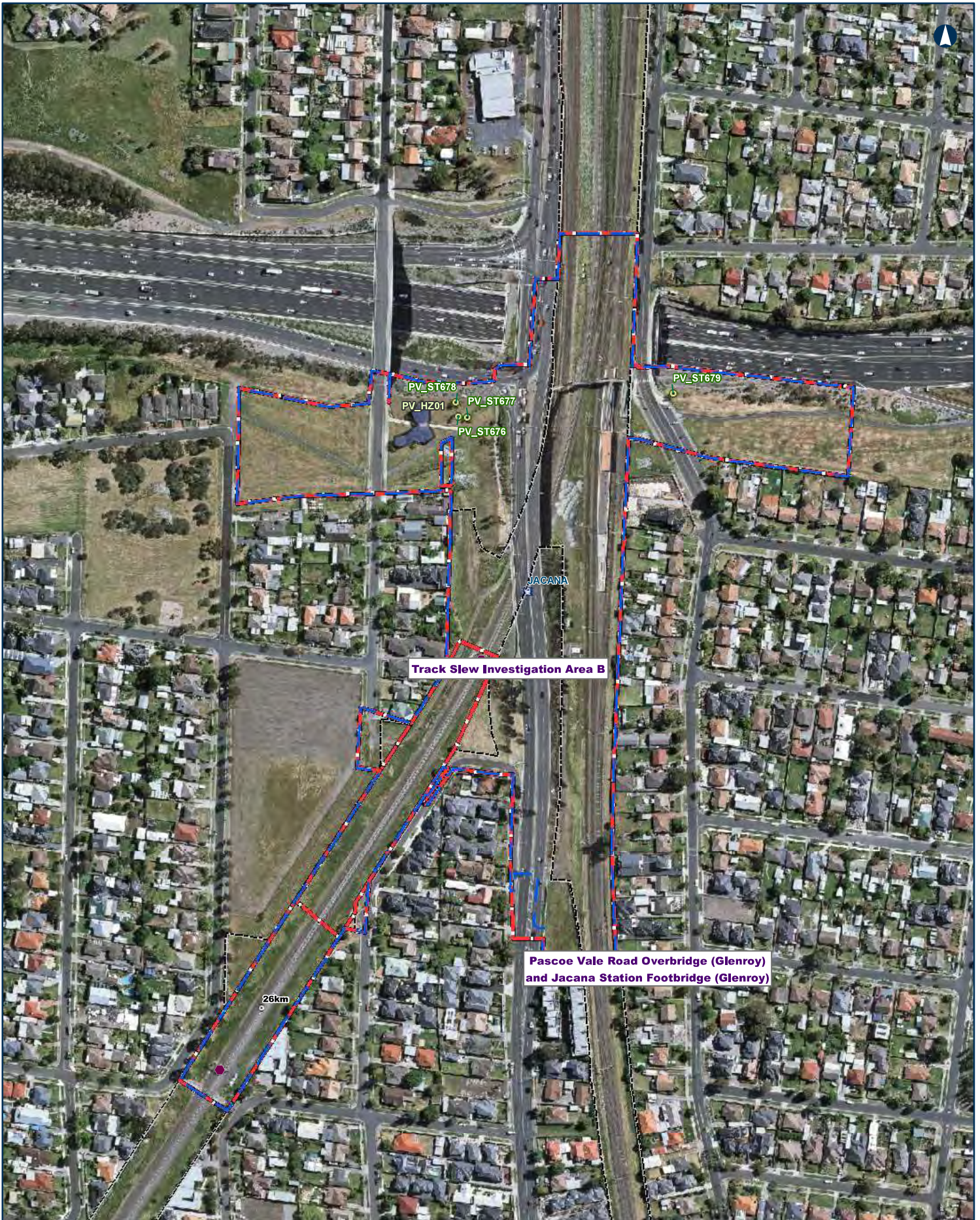
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Date: 04-Dec-19 Paper: A3
Author: JC Scale: 1:4,500
Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Signal Gantry
- Project
- Investigation Area (2018, 2019)
- Environment Data**
- Creekline Grassy Woodland
- Plains Grassy Woodland
- Scattered Tree Small
- Threatened Community**



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Tottenham TO Albury Ecological Features Map MAP 7 OF 39

0 40 80 m

Coordinate System: GDA 1994 MGA Zone 55

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Date: 04-Dec-19 Paper: A3
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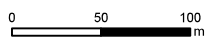
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Tottenham TO Albury

Ecological Features Map

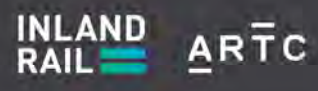
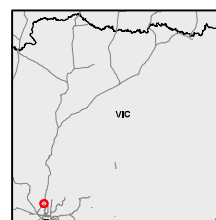


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Date: 04-Dec-19
 Author: JC
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Project
- Investigation Area (2018, 2019)
- Environment
- Plains Grassland
- Threatened

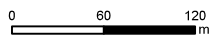


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Tottenham TO Albury

Ecological Features Map



Coordinate System: GDA 1994 MGA Zone 55

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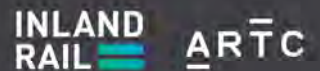
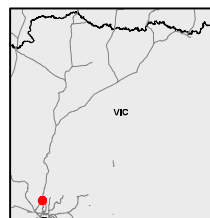
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 Data Sources: ARTC, VicMap, DataVIC



Environment Data

- Scattered Tree Large
- Scattered Tree Small

Threatened Community

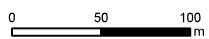


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Tottenham TO Albury

Ecological Features Map



Coordinate System: GDA 1994 MGA Zone 55

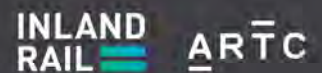
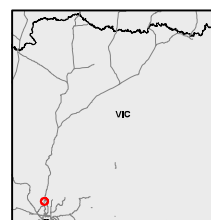
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Date: 04-Dec-19
 Author: JC
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Project
- Investigation Area (2018, 2019)

- Environment Data**
- Plains Grassland
- Scattered Tree Small

- Threatened Community**
- EPBC Community
- Natural Temperate Grassland
- FFG Community
- Western (Basalt) Plains Grassland
- Geranium sp1 (TBC)

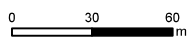


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Tottenham TO Albury

Ecological Features Map



Coordinate System: GDA 1994 MGA Zone 55

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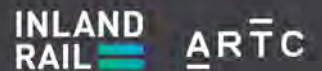
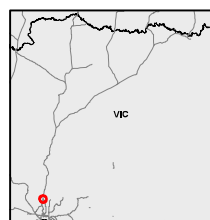
Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:2,000
 Data Sources: ARTC, VicMap, DataVIC

--- VicTrack Reserve

● Signal Gantry

■ Project Investigation Area (2018, 2019)

Environment Data Threatened Community

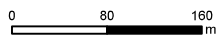


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Tottenham TO Albury

Ecological Features Map



Coordinate System: GDA 1994 MGA Zone 55

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Date: 04-Dec-19
 Author: JC
 Paper: A3
 Scale: 1:4,500
 Data Sources: ARTC, VicMap, DataVIC

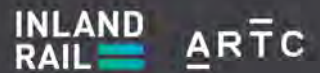
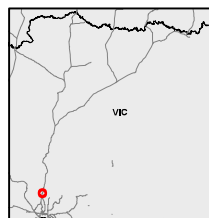
- VicTrack Reserve
- Project Investigation Area (2018, 2019)

Environment Data

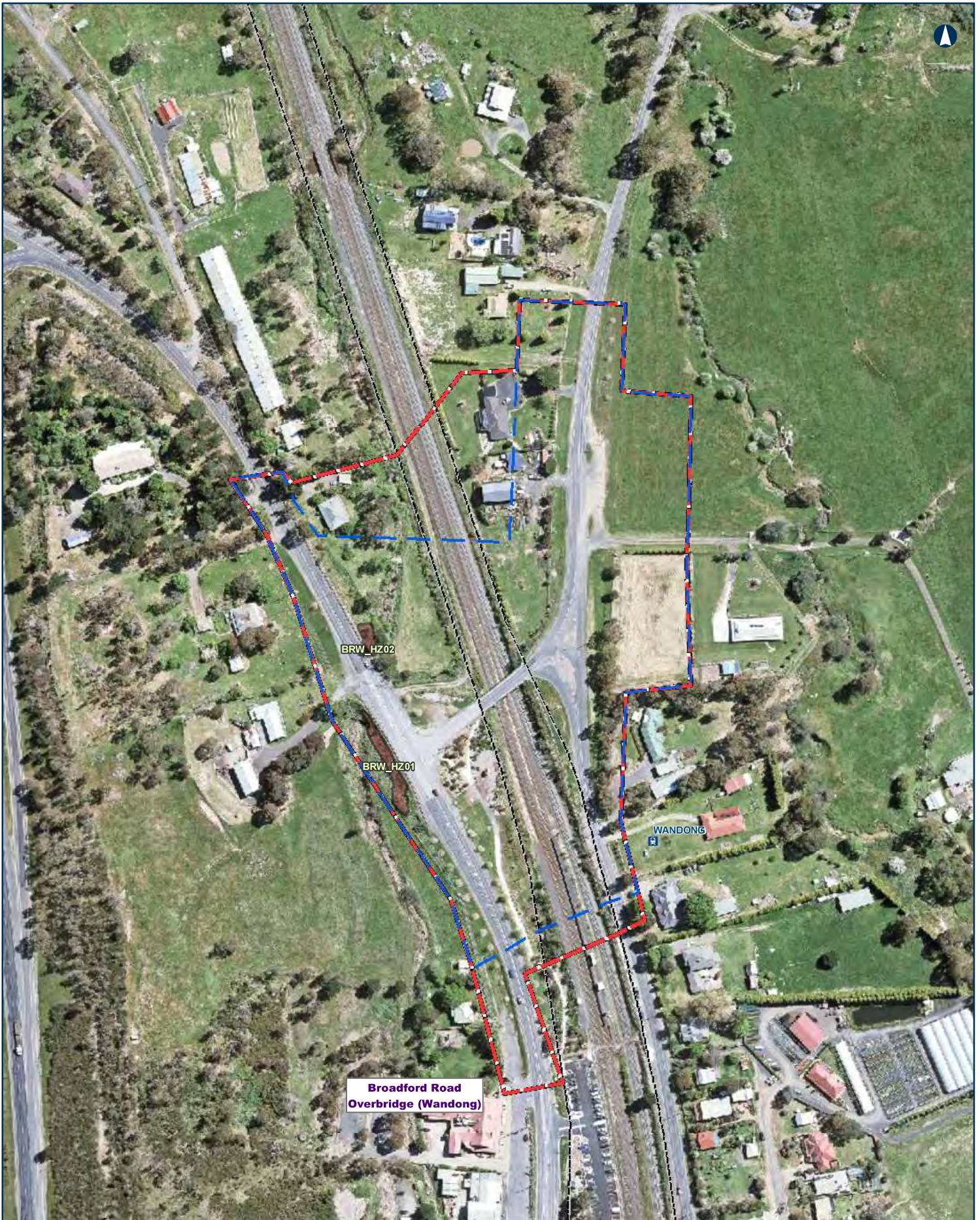
- Plains Grassland
- Plains Grassy Woodland
- Scattered Tree Small

Threatened Community

- EPBC Community
- Natural Temperate Grassland
- FFG Community
- Western (Basalt) Plains Grassland



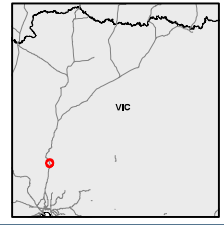
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Tottenham TO Albury Ecological Features Map MAP 13 OF 39

0 30 60 m
 Coordinate System: GDA 1994 MGA Zone 55
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 Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:2,000
 Data Sources: ARTC, VicMap, DataVIC

VicTrack Reserve	Environment	Threatened
Project	Valley Grassy Forest	
Investigation Area (2018, 2019)		



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Track Slew Investigation Area C

Tottenham TO Albury

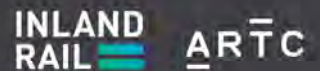
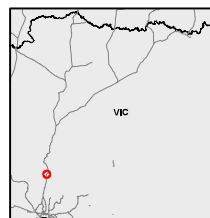
Ecological Features Map

0 60 120 m
 Coordinate System: GDA 1994 MGA Zone 55
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 Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:3,500
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Project
- Investigation Area (2018, 2019)
- Track Slew Impact Area

- Environment Data**
- Plains Grassland
 - Swampy Riparian Woodland
 - LOT in Native Patch
 - Scattered Tree Large
 - Scattered Tree Small

- Threatened Community**
- EPBC Community
 - Natural Temperate Grassland
 - FFG Community
 - Western (Basalt) Plains Grassland

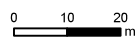


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Tottenham TO Albury

Ecological Features Map



Coordinate System: GDA 1994 MGA Zone 55

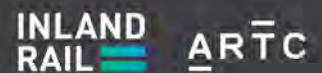
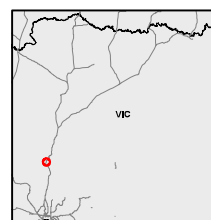
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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:1,000
 Data Sources: ARTC, VicMap, DataVIC

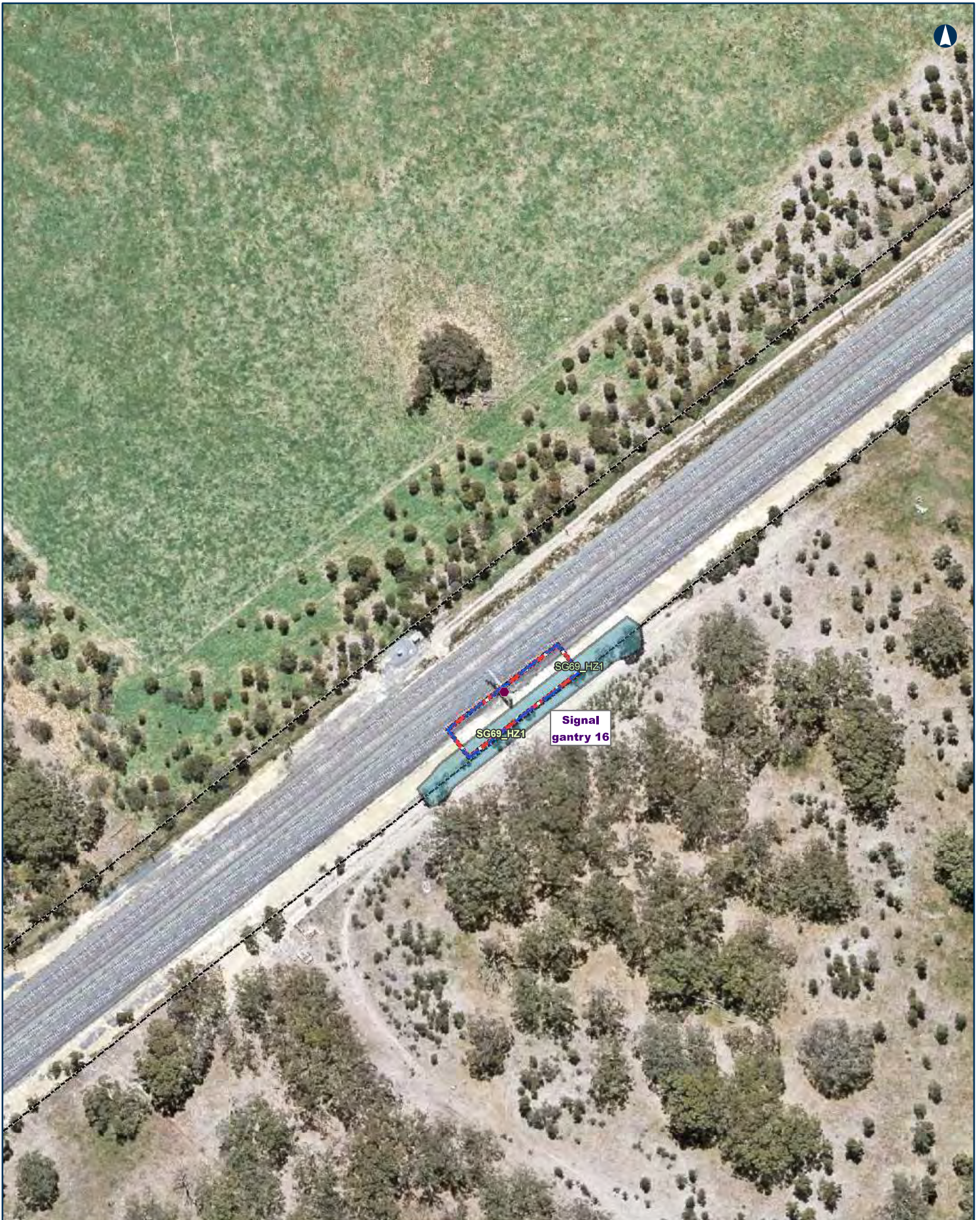
- VicTrack Reserve
- Signal Gantry
- Project
- Investigation Area (2018, 2019)

- Environment Data**
- Plains Grassy Woodland

Threatened Community



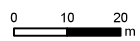
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Tottenham TO Albury

Ecological Features Map

MAP 16 OF 39

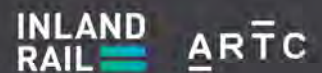
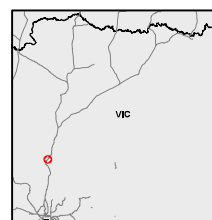


Coordinate System: GDA 1994 MGA Zone 55

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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:1,000
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Signal Gantry
- Project
- Investigation Area (2018, 2019)
- Environment**
- Grassy Woodland
- Threatened**

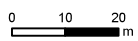


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Tottenham TO Albury

Ecological Features Map



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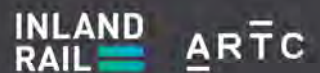
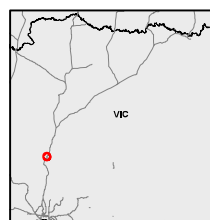
Date: 04-Dec-19
 Author: JC
 Paper: A3
 Scale: 1:1,000
 Data Sources: ARTC, VicMap, DataVIC

--- VicTrack Reserve

● Signal Gantry

Project Investigation Area (2018, 2019)

Environment Data Threatened Community



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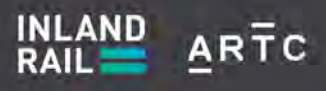
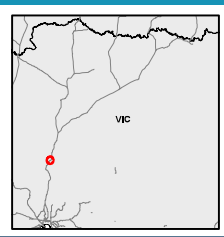
Tottenham TO Albury

Ecological Features Map

0 40 80 m
 Coordinate System: GDA 1994 MGA Zone 55
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 Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:2,500
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Project Investigation Area (2018, 2019)
- Environment Data**
- Grassy Woodland
- Plains Grassy Woodland
- LOT in Native Patch
- Scattered Tree Large
- Scattered Tree Small

Threatened Community



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**Short Street
Overbridge (Broadford)**

Tottenham TO Albury Ecological Features Map MAP 19 OF 39

0 50 100 m

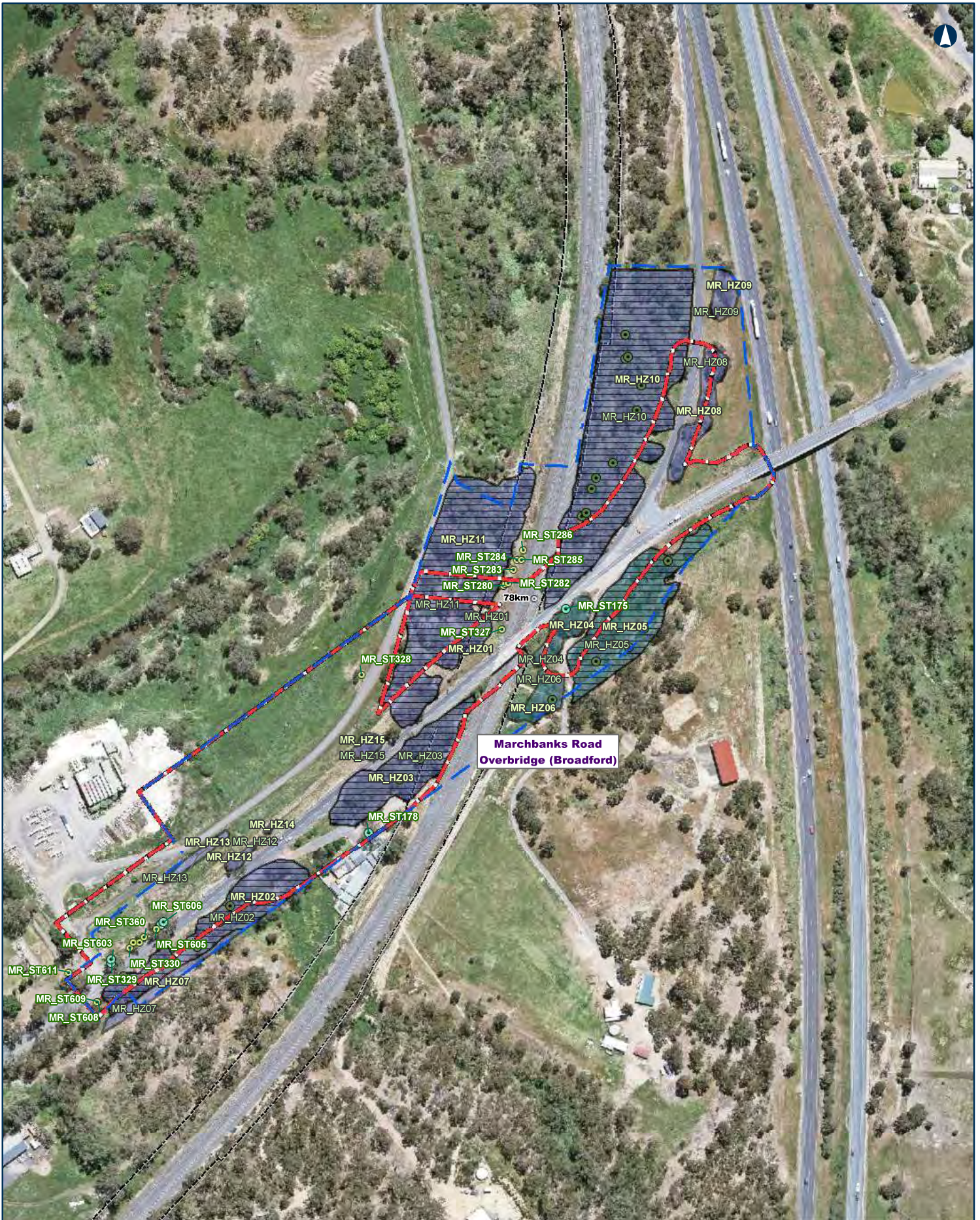
Coordinate System: GDA 1994 MGA Zone 55

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Date: 04-Dec-19 Paper: A3
Author: JC Scale: 1:3,000
Data Sources: ARTC, VicMap, DataVIC

<ul style="list-style-type: none"> VicTrack Reserve Project Investigation Area (2018, 2019) 	<p>Environment Data</p> <ul style="list-style-type: none"> Grassy Woodland Plains Grassy Woodland LOT in Native Patch Scattered Tree Large Scattered Tree Small 	<p>Threatened</p> <ul style="list-style-type: none"> FFG Community Victorian Temperate Woodland Bird Community 	
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Marchbanks Road Overbridge (Broadford)

Tottenham TO Albury

Ecological Features Map

0 40 80
m

Coordinate System: GDA 1994 MGA Zone 55

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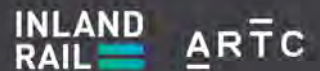
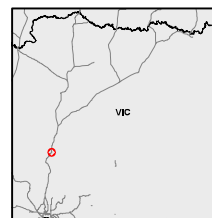
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Date: 04-Dec-19 Paper: A3
Author: JC Scale: 1:2,500
Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Project
- Investigation Area (2018, 2019)

- Environment Data**
- Grassy Woodland
 - Plains Grassy Woodland
 - LOT in Native Patch
 - Scattered Tree Large
 - Scattered Tree Small

- Threatened**
- FFG Community
 - Victorian Temperate Woodland Bird Community



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Tottenham TO Albury Ecological Features Map MAP 21 OF 39

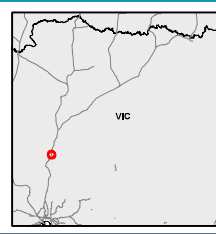
0 10 20 m

Coordinate System: GDA 1994 MGA Zone 55

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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:1,000
 Data Sources: ARTC, VicMap, DataVIC

<p>--- VicTrack Reserve</p> <p>● Signal Gantry</p> <p>Project</p> <p>Investigation Area (2018, 2019)</p>	<p>Environment Data</p> <p>Grassy Woodland</p> <p>● LOT in Native Patch</p>	<p>Threatened</p> <p>FFG Community</p> <p>Victorian Temperate Woodland Bird Community</p>
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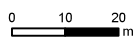
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Tottenham TO Albury

Ecological Features Map



Coordinate System: GDA 1994 MGA Zone 55

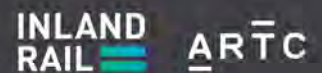
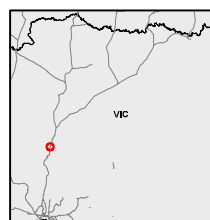
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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:1,000
 Data Sources: ARTC, VicMap, DataVIC

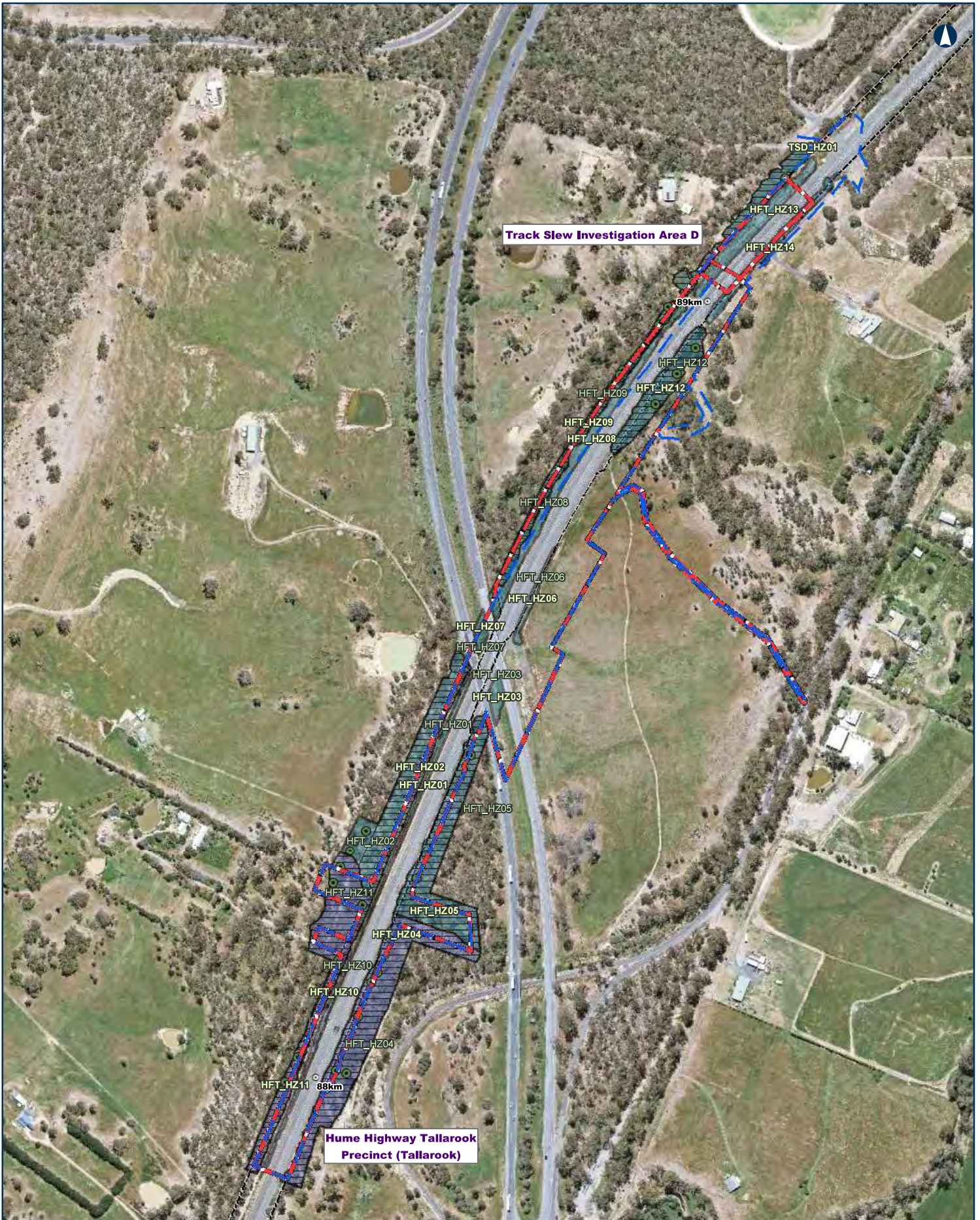
- VicTrack Reserve
- Signal Gantry
- Project
- Investigation Area (2018, 2019)

- Environment**
- Grassy Woodland
 - LOT in Native Patch
 - Scattered Tree

- Threatened**
- FFG Community
 - Victorian Temperate Woodland Bird Community



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Hume Highway Tallarook Precinct (Tallarook)

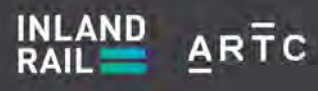
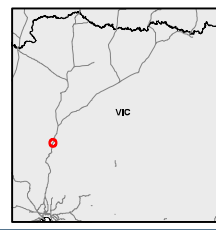
Track Slew Investigation Area D

Tottenham TO Albury

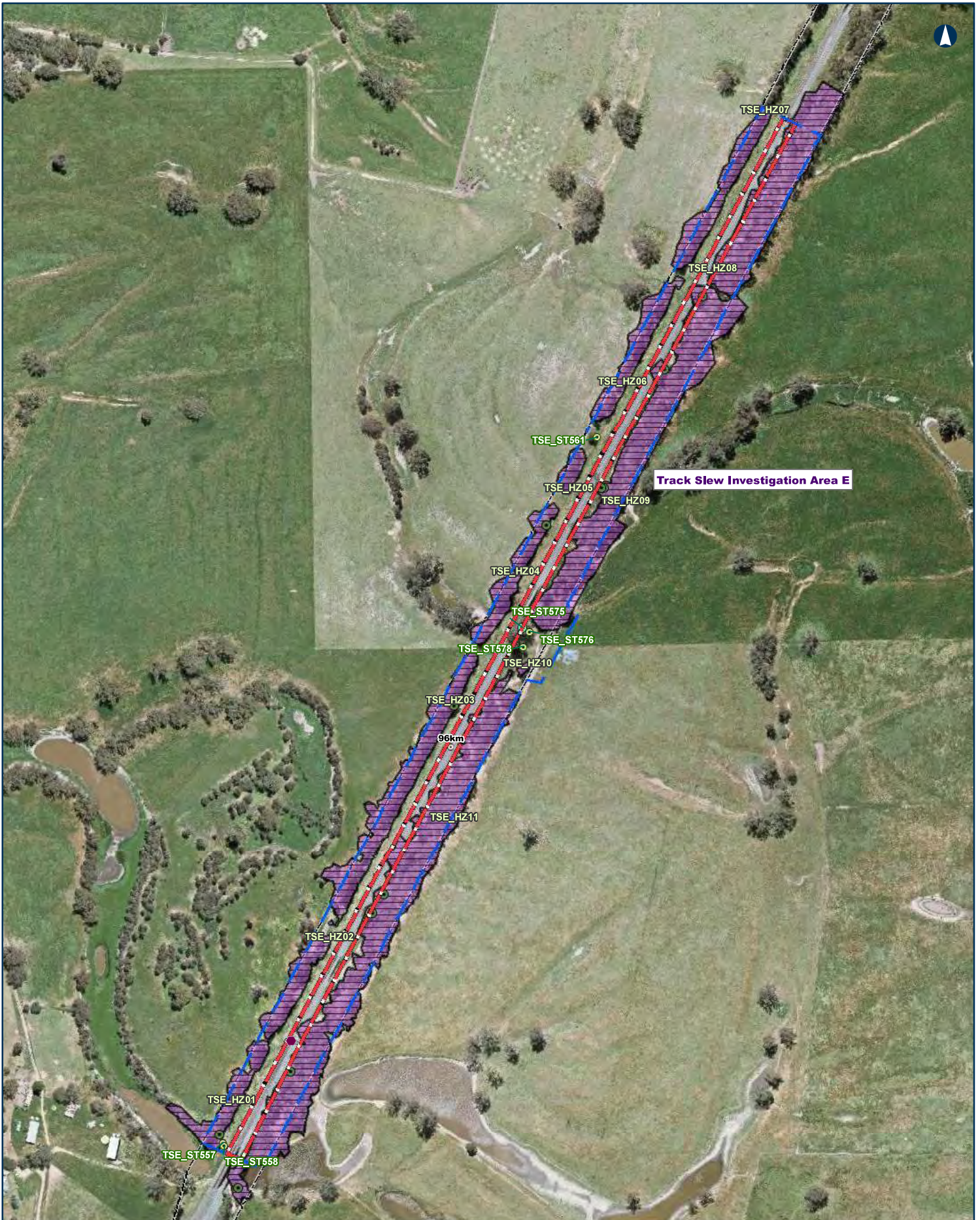
Ecological Features Map

0 75 150 m
 Coordinate System: GDA 1994 MGA Zone 55
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 Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:4,000
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Project Investigation Area (2018, 2019)
- Environment Data**
- Grassy Woodland
- Plains Grassy Woodland
- LOT in Native Patch
- Threatened Community**
- FFG Community
- Victorian Temperate Woodland Bird Community



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Tottenham TO Albury

Ecological Features Map

0 70 140 m

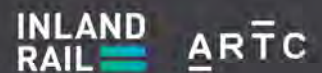
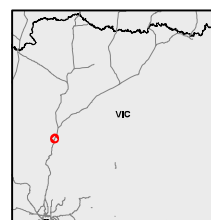
Coordinate System: GDA 1994 MGA Zone 55
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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:3,800
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Signal Gantry
- Project
- Investigation Area (2018, 2019)

- Environment**
- Floodplain Riparian Woodland
 - LOT in Native Patch
 - Scattered Tree Large
 - Scattered Tree Small

- Threatened**
- FFG Community
 - Victorian Temperate Woodland Bird Community



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Track Slew Investigation Area F

99km

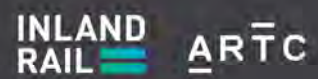
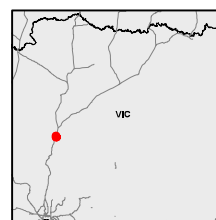
SEYMOUR

Tottenham TO Albury

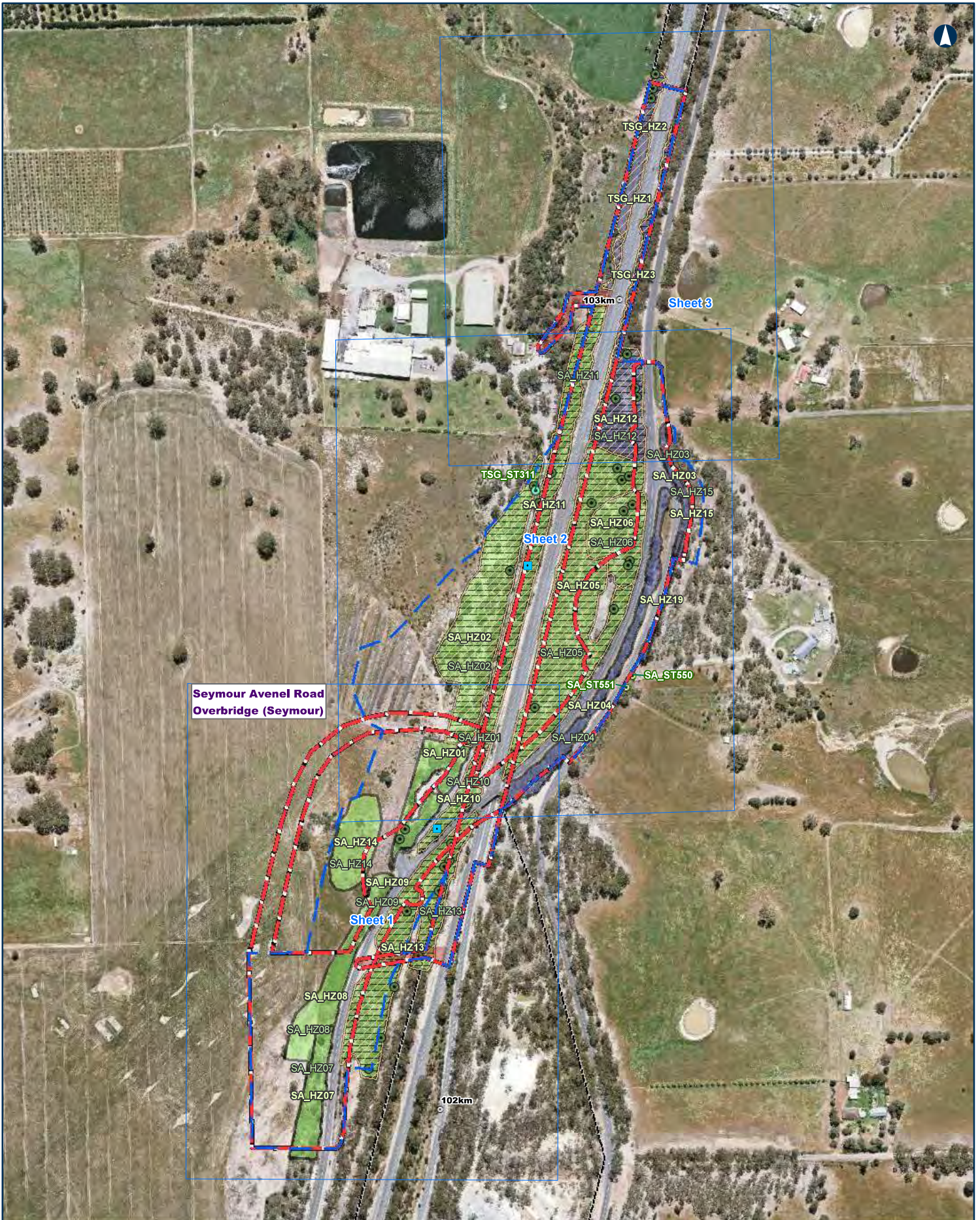
Ecological Features Map

0 30 60 m
 Coordinate System: GDA 1994 MGA Zone 55
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 Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:2,000
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Signal Gantry
- Project Investigation Area (2018, 2019)
- Environment Data Threatened Community



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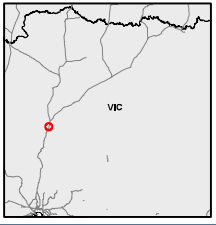


Seymour Avenel Road Overbridge (Seymour)

Tottenham TO Albury Ecological Features Map MAP 26 OF 39

0 80 160 m
 Coordinate System: GDA 1994 MGA Zone 55
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 Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:4,200
 Data Sources: ARTC, VicMap, DataVIC

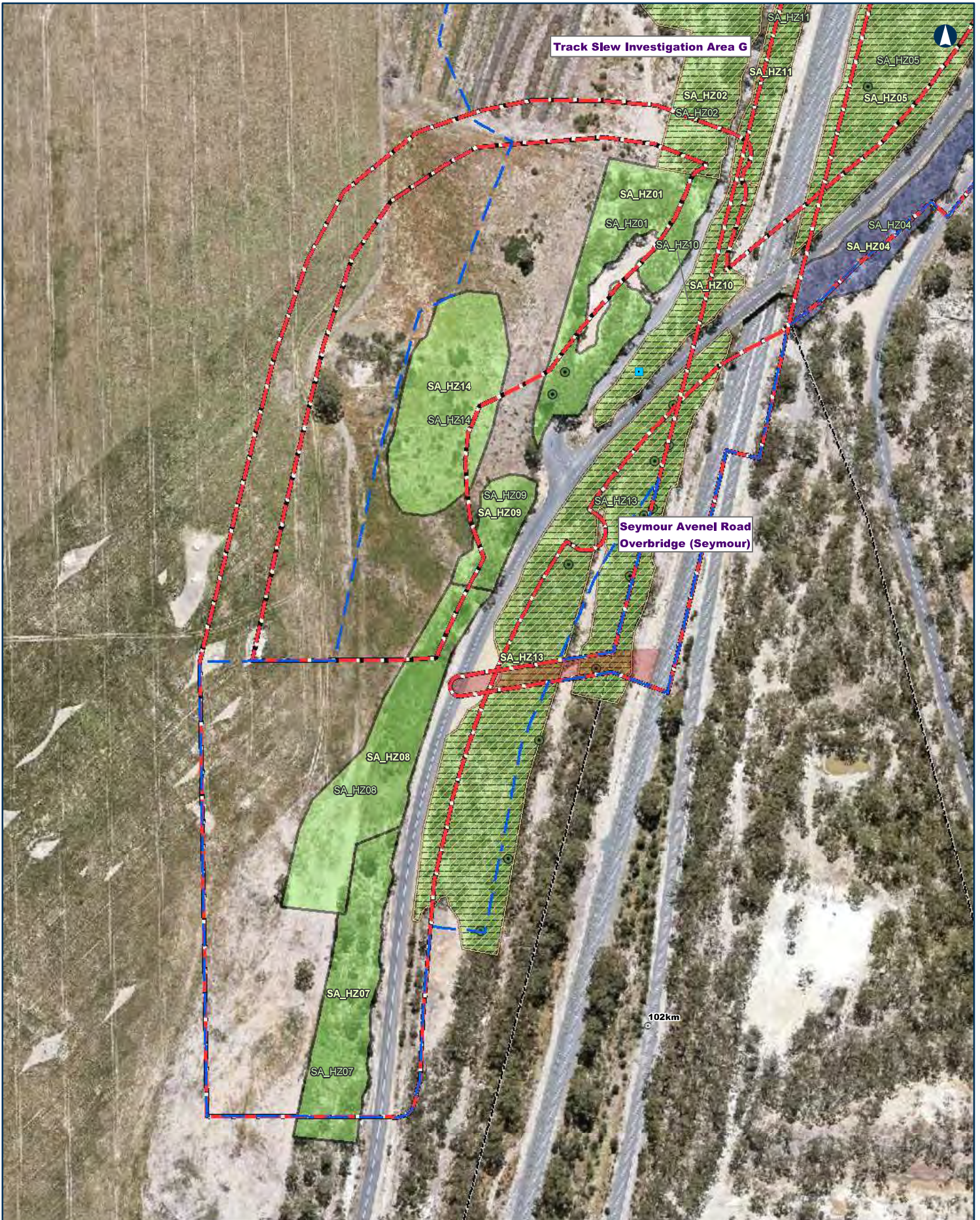
- VicTrack Reserve
 - Project
 - Investigation Area (2018, 2019)
 - Track Stew Impact Area
- Environment Data**
- Box Ironbark Forest
 - Plains Grassy Woodland
 - LOT in Native Patch
 - Scattered Tree Large
 - Scattered Tree Small
- Threatened Community**
- EPBC Community
 - Grey box grassy woodland
 - FFG Community
 - Victorian Temperate Woodland Bird Community
 - Buloke



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Tottenham TO Albury

Ecological Features Map

0 30 60
m

Coordinate System: GDA 1994 MGA Zone 55

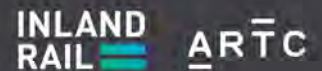
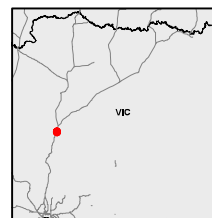
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Date: 04-Dec-19 Paper: A3
Author: JC Scale: 1:1,800
Data Sources: ARTC, VicMap, DataVIC

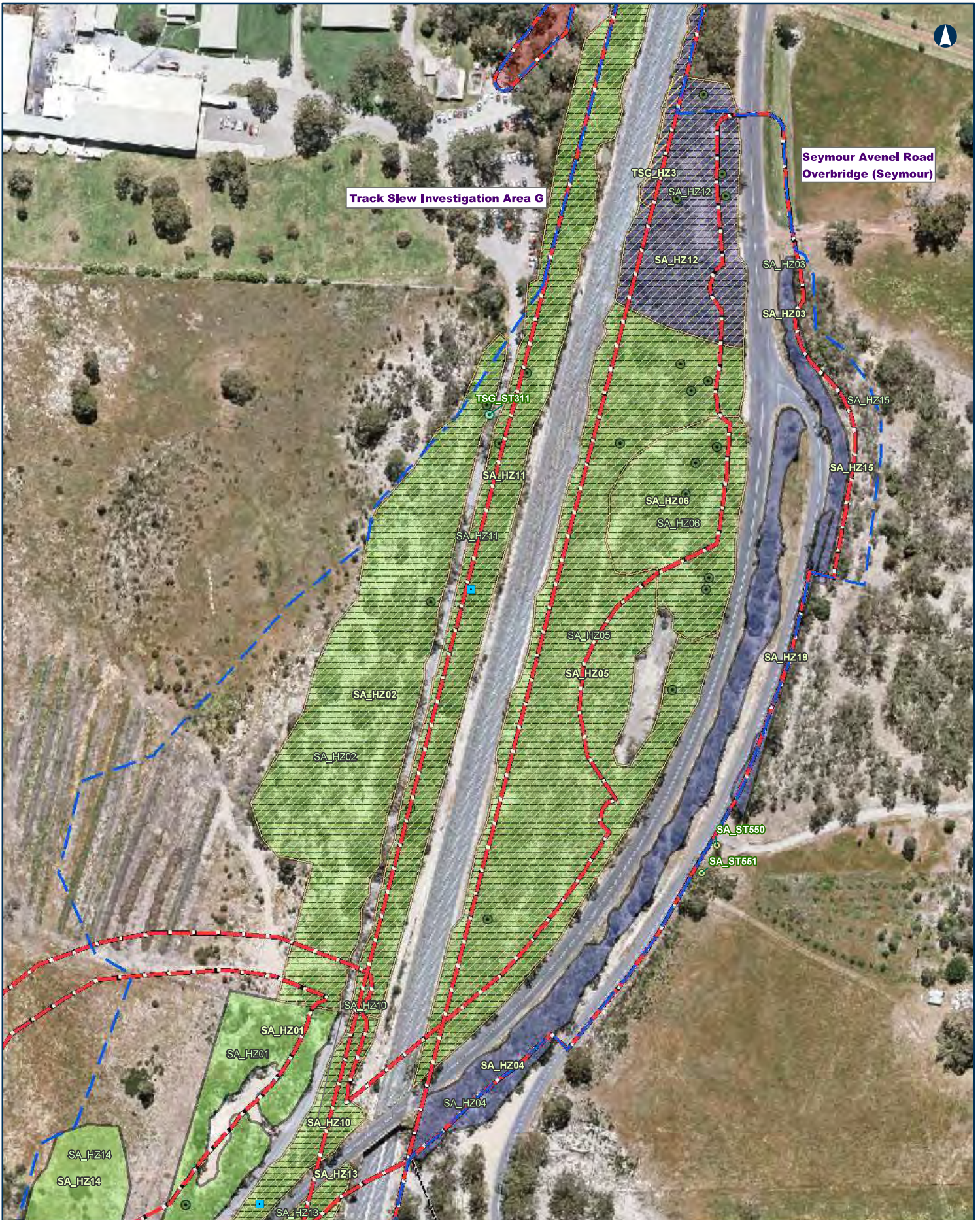
- VicTrack Reserve
- Project
- Investigation Area (2018, 2019)
- Track Slew Impact Area

- Environment Data**
- Box Ironbark Forest
 - Plains Grassy Woodland
 - LOT in Native Patch

- Threatened Community**
- EPBC Community
 - Grey box grassy woodland
 - FFG Community
 - Victorian Temperate Woodland Bird Community
 - Buloke



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Tottenham TO Albury Ecological Features Map MAP 28 OF 39

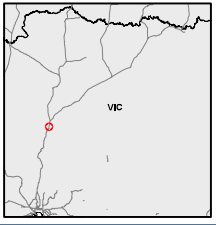
0 30 60 m

Coordinate System: GDA 1994 MGA Zone 55

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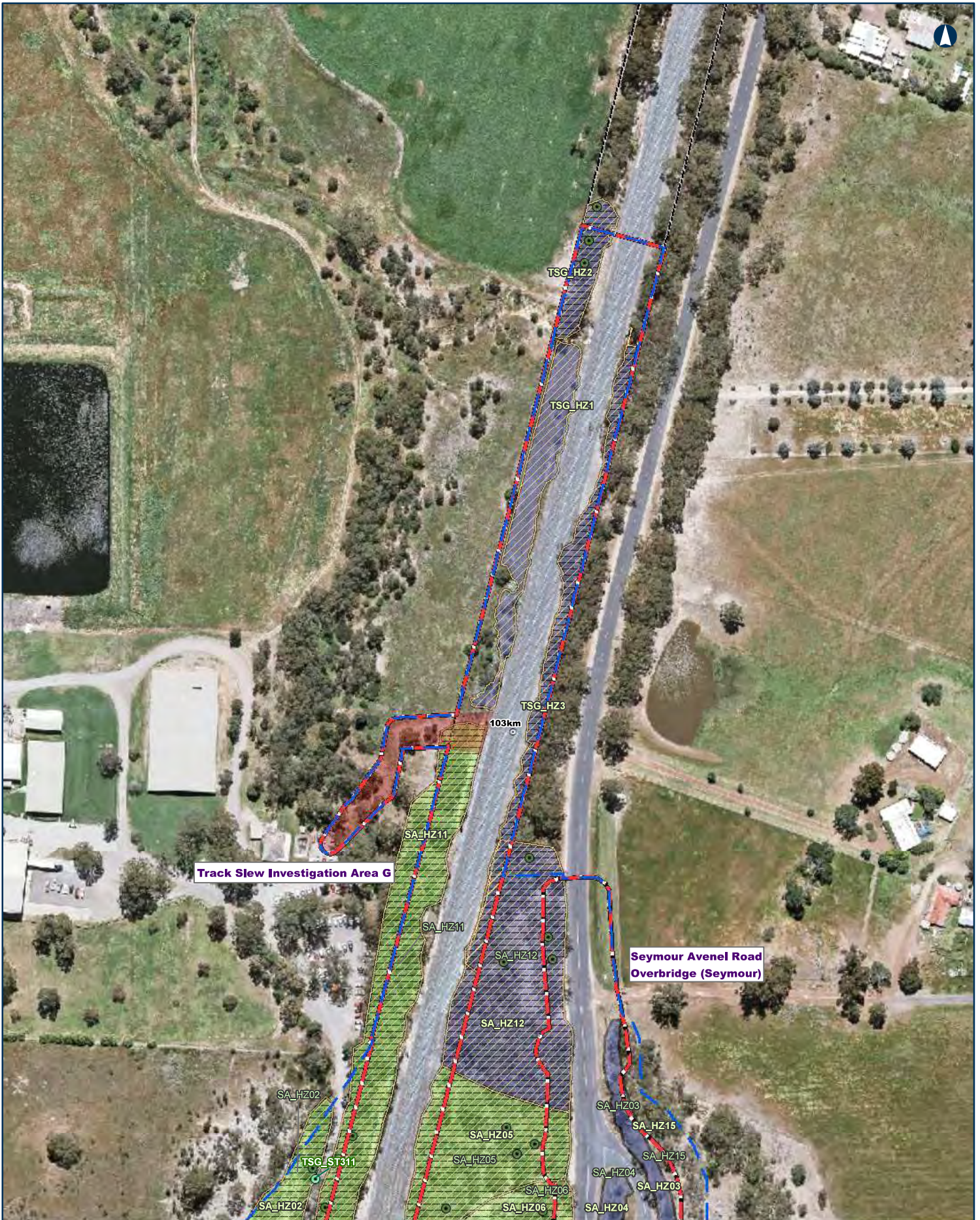
Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:1,800
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
 - Project
 - Investigation Area (2018, 2019)
 - Track Slew Impact Area
- Environment Data**
- Box Ironbark Forest
 - Plains Grassy Woodland
 - LOT in Native Patch
 - Scattered Tree Large
 - Scattered Tree Small
- Threatened Community**
- EPBC Community
 - Grey box grassy woodland
 - FFG Community
 - Victorian Temperate Woodland Bird Community
 - Buloke



INLAND RAIL **ARTC**

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Tottenham TO Albury Ecological Features Map MAP 29 OF 39

0 30 60 m

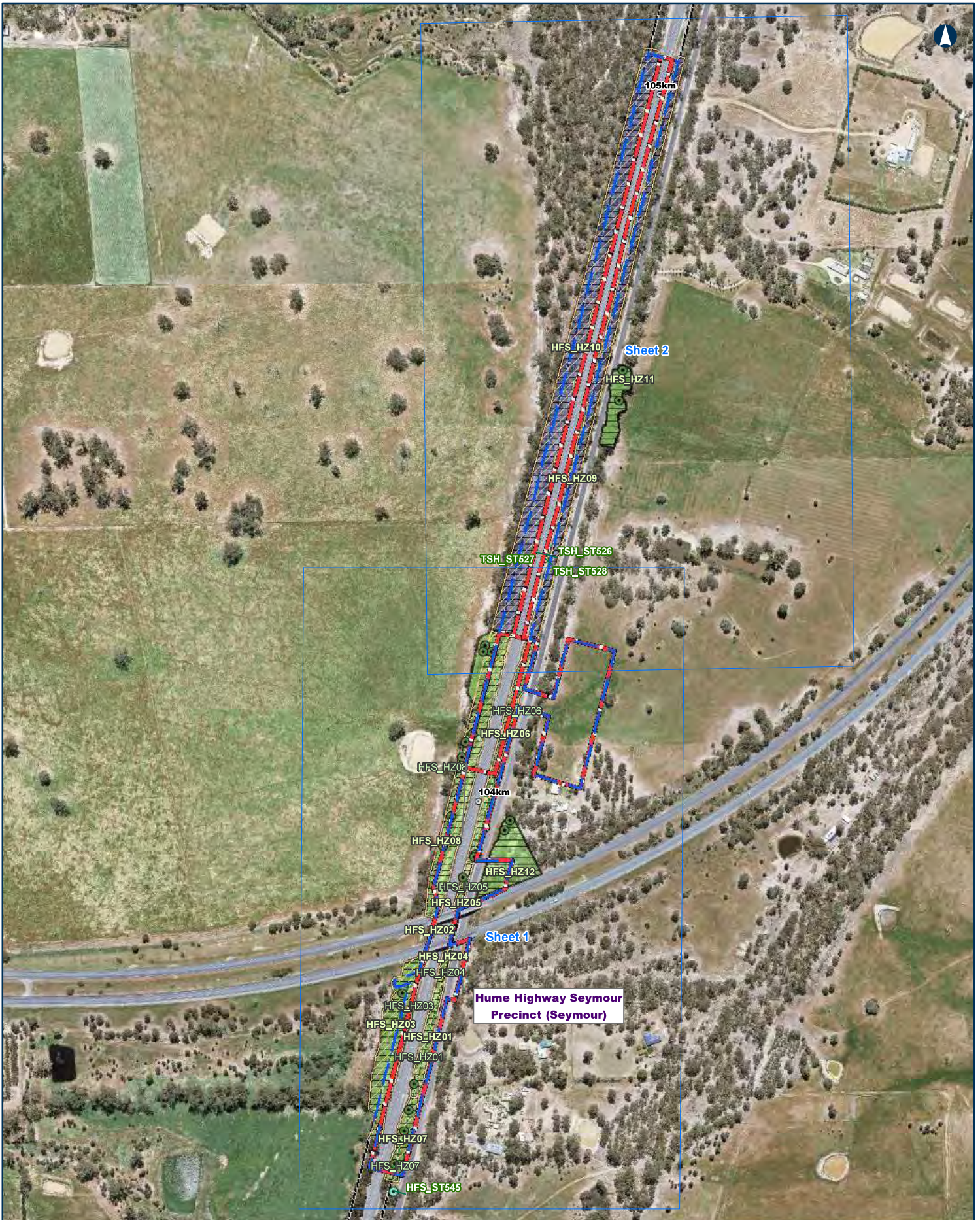
Coordinate System: GDA 1994 MGA Zone 55

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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:1,800
 Data Sources: ARTC, VicMap, DataVIC

<ul style="list-style-type: none"> VicTrack Reserve Project Investigation Area (2018, 2019) Track Slew Impact Area 	<p>Environment Data</p> <ul style="list-style-type: none"> Box Ironbark Forest Plains Grassy Woodland LOT in Native Patch Scattered Tree Large 	<p>Threatened Community</p> <ul style="list-style-type: none"> EPBC Community Grey box grassy woodland FFG Community Victorian Temperate Woodland Bird Community 	
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Tottenham TO Albury Ecological Features Map MAP 30 OF 39

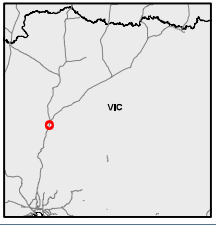
0 90 180 m

Coordinate System: GDA 1994 MGA Zone 55

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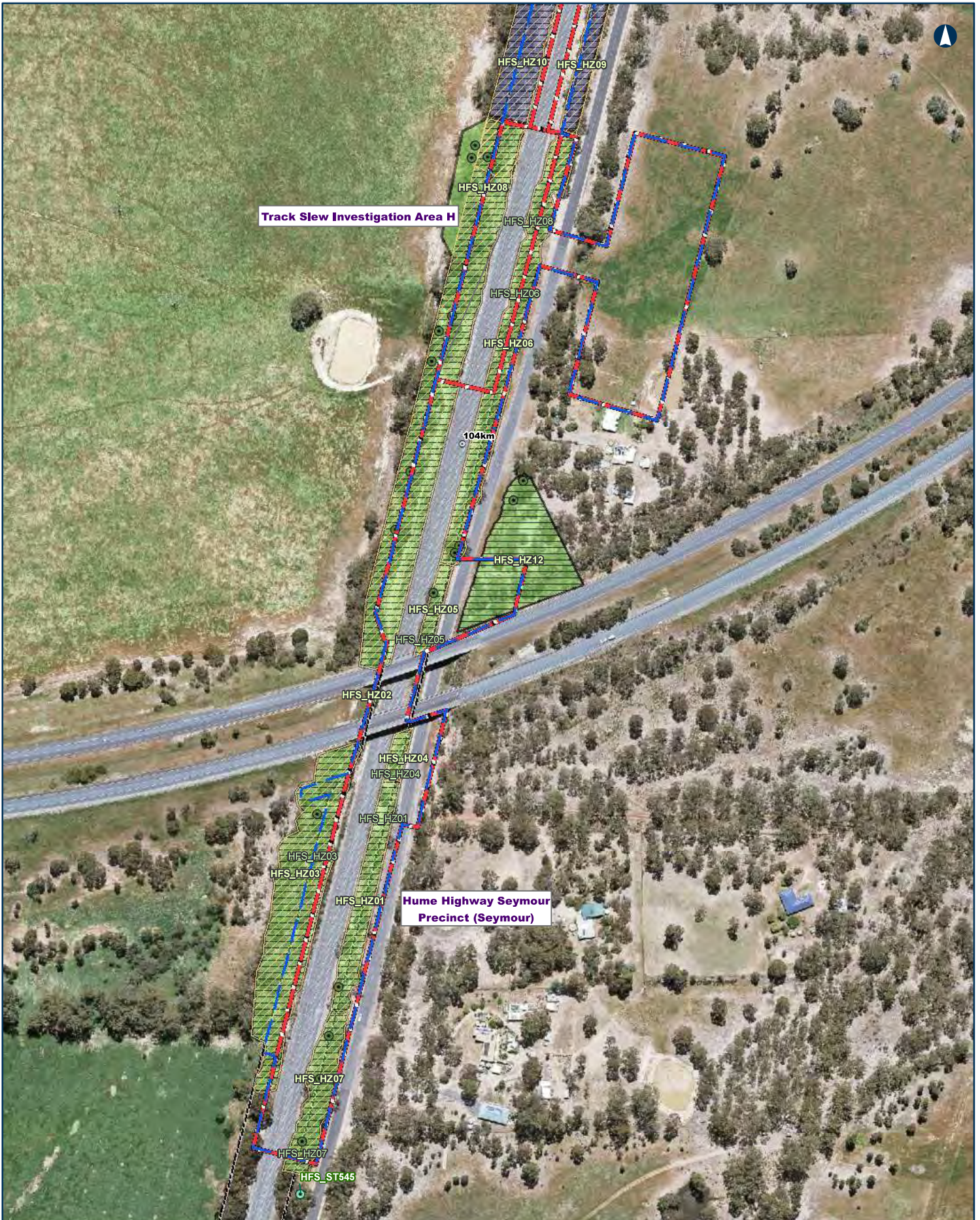
Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:4,800
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
 - Project Area
 - Investigation Area (2018, 2019)
- Environment Data**
- Box Ironbark Forest
 - Plains Grassy Woodland
 - LOT in Native Patch
 - Scattered Tree Large
 - Scattered Tree Small
- Threatened Community**
- EPBC Community
 - Grey box grassy woodland
 - FFG Community
 - Victorian Temperate Woodland Bird Community



INLAND RAIL **ARTC**

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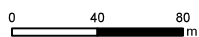


Track Slew Investigation Area H

Hume Highway Seymour Precinct (Seymour)

Tottenham TO Albury

Ecological Features Map



Coordinate System: GDA 1994 MGA Zone 55

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Date: 04-Dec-19
 Author: JC
 Paper: A3
 Scale: 1:2,500
 Data Sources: ARTC, VicMap, DataVIC

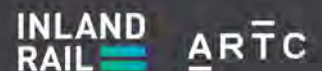
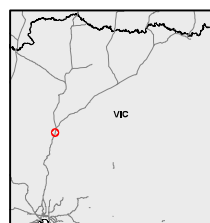
- VicTrack Reserve
- Project Area
- Investigation Area (2018, 2019)

Environment Data

- Box Ironbark Forest
- Plains Grassy Woodland
- LOT in Native Patch
- Scattered Tree Large

Threatened Community

- EPBC Community
- Grey box grassy woodland
- FFG Community
- Victorian Temperate Woodland Bird Community



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Hume Highway Seymour Precinct (Seymour)

Hume Highway Seymour Precinct (Seymour)

Tottenham TO Albury Ecological Features Map MAP 32 OF 39

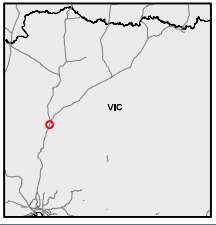
0 40 80 m

Coordinate System: GDA 1994 MGA Zone 55

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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:2,500
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Project Area
- Investigation Area (2018, 2019)
- Environment Data**
- Box Ironbark Forest
- Plains Grassy Woodland
- LOT in Native Patch
- Scattered Tree Small
- Threatened Community**
- EPBC Community
- Grey box grassy woodland
- FFG Community
- Victorian Temperate Woodland Bird Community



INLAND RAIL **ARTC**

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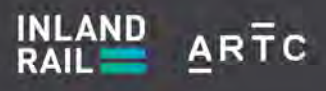
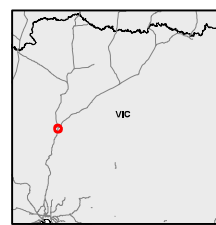


Tottenham TO Albury

Ecological Features Map

0 75 150 m
 Coordinate System: GDA 1994 MGA Zone 55
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 Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:4,000
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
 - Project Area
 - Investigation Area (2018, 2019)
 - LOT in Native Patch
- Environment Data**
- Plains Grassy Wetland
 - Plains Grassy Woodland
- Threatened Community**
- EPBC Community
 - Grey box grassy woodland
 - FFG Community
 - Victorian Temperate Woodland Bird Community



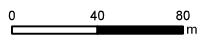
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**Anderson Street
Overbridge (Euroa)**

Tottenham TO Albury

Ecological Features Map



Coordinate System: GDA 1994 MGA Zone 55

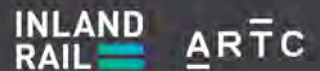
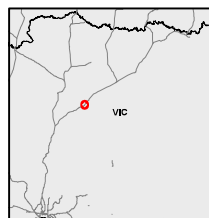
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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:2,500
 Data Sources: ARTC, VicMap, DataVIC

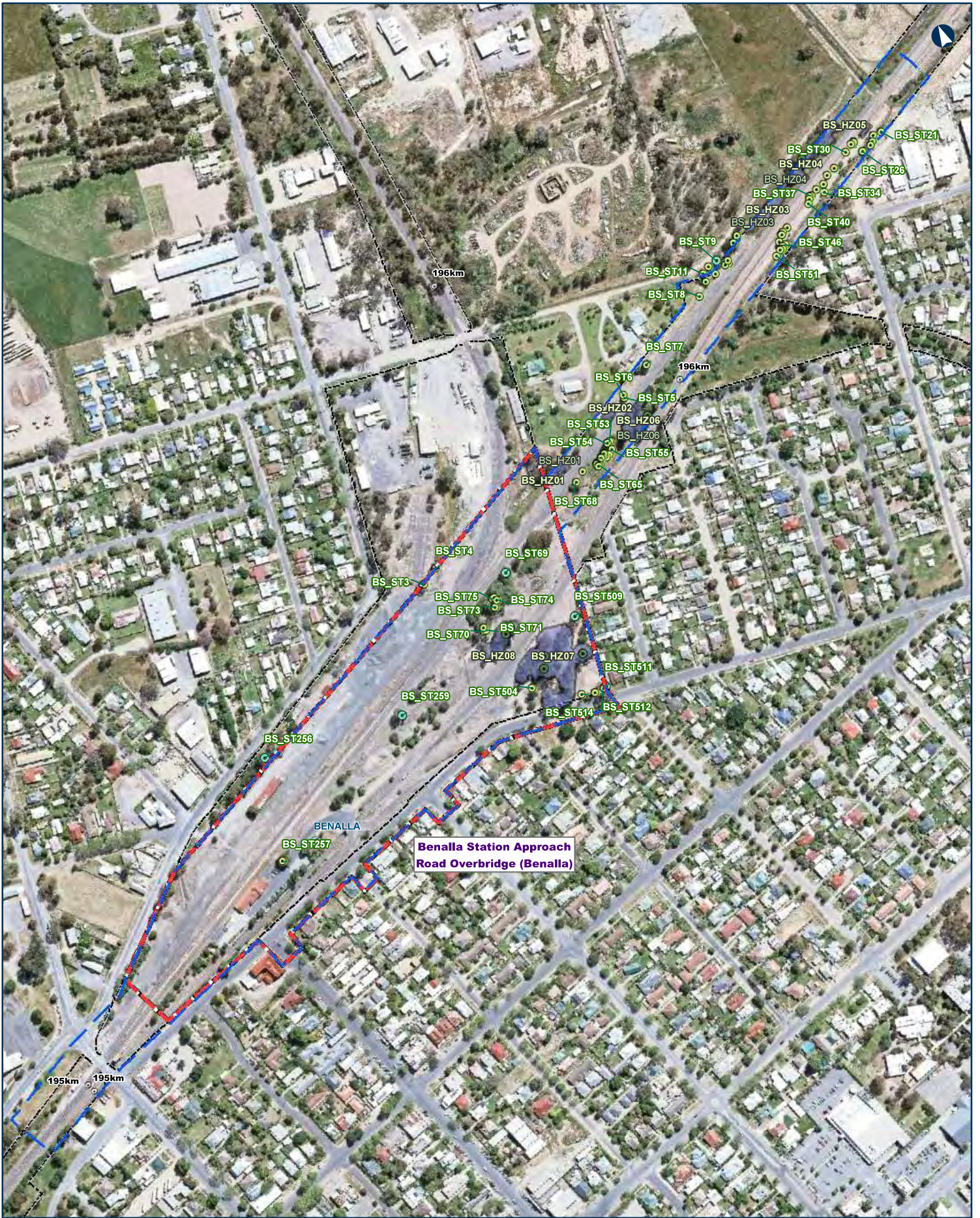
- VicTrack Reserve
- Project Area
- Investigation Area (2018, 2019)

- Environment Data**
- Scattered Tree Large
 - Scattered Tree Small

Threatened Community



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Tottenham TO Albury

Ecological Features Map

0 70 140 m

Coordinate System: GDA 1994 MGA Zone 55

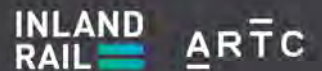
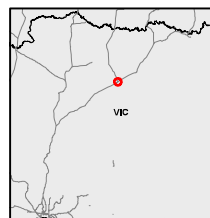
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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:3,800
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Project
- Investigation Area (2018, 2019)

- Environment Data**
- Plains Grassy Woodland
 - LOT in Native Patch
 - Scattered Tree Large
 - Scattered Tree Small

Threatened Community



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Tottenham TO Albury

Ecological Features Map

0 75 150 m
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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:4,000
 Data Sources: ARTC, VicMap, DataVIC

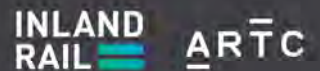
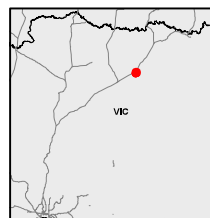
- VicTrack Reserve
- Project
- Investigation Area (2018, 2019)

Environment Data

- Grassy Woodland
- Plains Woodland
- LOT in Native Patch
- Scattered Tree Large
- Scattered Tree Small

Threatened Community

- EPBC Community
- White box-yellow box-Elakely's red gum grassy woodland
- FFG Community
- Victorian Temperate Woodland Bird Community



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Tottenham TO Albury Ecological Features Map MAP 37 OF 39

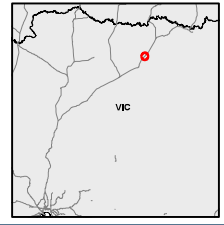
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:3,500
 Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
 - Signal Gantry
 - Project Area
 - Investigation Area (2018, 2019)
- Environment Data**
- Creekline Grassy Woodland
 - Plains Grassy Woodland
 - LOT in Native Patch
 - Scattered Tree Large
 - Scattered Tree Small
- Threatened Community**



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Tottenham TO Albury

Ecological Features Map

0 90 180 m

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Date: 04-Dec-19 Paper: A3
 Author: JC Scale: 1:5,000
 Data Sources: ARTC, VicMap, DataVIC

--- VicTrack Reserve



Investigation Area (2018, 2019)

Environment Data

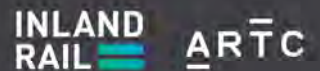
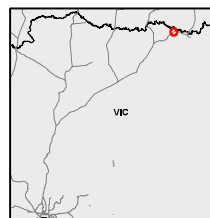
Plains Woodland

LOT in Native Patch

Scattered Tree Large

Scattered Tree Small

Threatened Community



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Tottenham TO Albury

Ecological Features Map

0 50 100
m

Coordinate System: GDA 1994 MGA Zone 55

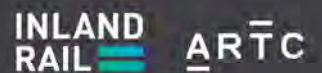
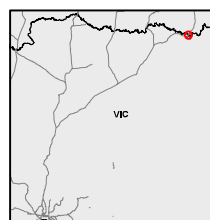
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Date: 04-Dec-19 Paper: A3
Author: JC Scale: 1:3,000
Data Sources: ARTC, VicMap, DataVIC

- VicTrack Reserve
- Project Investigation Area (2018, 2019)

- Environment Data**
- Riverine Grassy Woodland
 - LOT in Native Patch
 - Scattered Tree Large
 - Scattered Tree Small

- Threatened Community**
- FFG Community
 - Victorian Temperate Woodland Bird Community



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