

A&AM Proposal 2 - Rice Flower – genomically diverse seed collection strategies

Proposal 2 overview

For Rice Flower, we propose a program to undertake seed and vegetative material collection and propagation, followed by genetic analysis to determine if translocation is suitable, and if so, how a translocation plan would be designed to maximise genetic diversity. Additionally, we have costed for either *in situ* management of a population or translocation of an *ex situ* population to a site secured by an in-perpetuity conservation covenant. The option chosen would be determined by the results of the genetic analysis and consultation with the Accountable Officer for Rice Flower.

Elements

Undertake the following conservation management actions:

- seed collection and vegetative tissue sampling across the known distribution of the Rice Flower (i.e. not confined to the area subject to direct impact).
- genomic sampling and sequencing to comprehensively assess the level of genomic diversity present across the species' natural distribution, which will inform seed collection strategies.
- sampling, storing and testing of collected germplasm material to guarantee representation of the species *ex situ*, and improve our understanding of seed viability and germination traits.
- seed and vegetative propagation with the aim of growing 50 juveniles.
- translocation of propagated individuals to a site secured by an in-perpetuity conservation covenant with the aim of establishing 50 individuals to sexual maturity OR management of existing *in situ* populations of Rice Flower on McPhersons Plain.
- Annual reporting to the BCD accountable officer for Rice Flower.

This proposal will:

- contribute to our understanding of the reproductive and genetic health of the species, which is vital information in supporting a species that is facing rapid decline and adverse effects of anthropogenic development.
- guide seed sourcing strategies to support genomically representative collections for *ex situ* seed banking and conservation actions (e.g., translocation).
- provide recommendations on the seed germination traits that contribute to the likelihood of plant recruitment *in situ* as well as *ex situ* propagation success.
- develop guidelines that support conservation efforts and future management actions leading to the long-term survival of the species (e.g., translocation, population supplementation, living collection propagation).

The value of the genomic sampling is threefold. Firstly it applies the principle of '*first do no harm*' by ensuring we don't undertake a translocation which introduces alleles that swamp distinct populations, thereby inadvertently reducing genetic diversity and the species' overall resilience. Second, it ensures that if a translocation is undertaken, we select the individuals with maximum genetic diversity and position them

in a way which is most likely to result in cross-pollination. And thirdly, it will determine if *Pimelea bracteata* is in fact a distinct population from its nearest relative *Pimelea ligustrina*.

Funding and delivery model

We estimate the total cost of delivery of the above conservation management actions for Rice Flower to be approximately **\$271,900.00** (see sheet three in attached spreadsheet). This costing is based on the proposal developed by Dr Nathan Emery (also attached) of the Botanic Gardens of Sydney (BGS) and would engage two of their expert teams, including:

- Seedbank & Conservation Collections (SBCC), and
- Research Centre for Ecosystem Resilience (ReCER).

Transgrid have also budgeted translocation costs such as fence installation, fence maintenance, weed control, watering and monitoring. However, we note that the detailed design of any translocation program is contingent on the results of the genomic analysis undertaken by BGS, which may advise against a translocation. Instead, we have costed management actions for the preservation of an existing *in situ* population as a proxy for translocation cost. The funds that have been costed for management of an *in situ* population of Rice Flower could be reallocated to translocation of an *ex situ* population. However, all major management decisions would be made in consultation with the Accountable Officer for the species.

Justification

Our proposal for Rice Flower is **additional** for the following reasons:

- It would undertake genetic analysis and seed collection on a **representative sample** of the of the **entire population** of Rice Flower, not just the impact population.
- It would result in **knowledge** about how to relax the species' **physiological dormancy** and then **trigger germination**. Rice Flower is a notoriously difficult species to propagate from seed.
- It will determine if *Pimelea bracteata* is a distinct population from its nearest relative *Pimelea ligustrina*.

Our proposal for Rice Flower is **appropriate** for the following reasons:

- It pertains to both the **impact population** and the **entire population**.
- It indirectly addresses one of the key threatening processes (dieback) by enabling the **maintenance of genetically diverse ex situ populations**.
- The results of the genetic analysis would be used for **adaptive management**

A&AM Proposal 3 – Sooty Owl – Breeding Habitat Restoration

Proposal 3 overview

For Sooty Owl, we are proposing to implement habitat restoration actions at a yet-to-be determined site. Transgrid would seek to deliver all restoration actions at a site secured by an in-perpetuity conservation covenant (such as a Biodiversity Stewardship Agreement or Conservation Agreement under the *Biodiversity Conservation Act 2016*). Restoration activities would focus on artificial measures to reinstate Sooty Owl breeding habitat including different artificial nest hollow designs. The efficacy of the restoration measures would be monitored and analysed by funding a PhD student over the three-year project timeframe.

Elements

The restoration might include the following, however, detailed design of any conservation actions would be undertaken in consultation with the BCD Accountable Officer for Sooty Owl and any future PhD student:

- Installation and monitoring of the artificial nest hollow designs at a site secured by an in-perpetuity conservation covenant. Artificial nest hollow designs might include:
 - A **chainsaw cavity and entrance** where the arborist uses a chainsaw to carve out a suitably sized cavity and entrance in a tree limb or trunk. The carving would occur into mature trees with >40cm trunk diameter.
 - A **chainsaw entrance to existing cavity** where the arborist creates access to a previously inaccessible, internal tree cavity.
 - A completely artificial **plastic nest box** (such as those made by [Habitat](#)) where a thermally stable, manufactured nest box is attached to a tree. Attachment of nest boxes would occur through a mounting bracket system, which is designed to enable the tree to scar over the bracket. The habitat nest box itself involves a modular, stackable design and multiple entry configurations suitable for the species.
 - A completely artificial, **traditional plywood nest box**. This would involve mounting nest boxes with pre-determined dimensions on existing trees using the Habisure system. The standard nest box would include a hinged, sloping lid, and a suitably sized entrance hole and incised ladder for easy access.
- **Funding a PhD student** to design the study, monitor Sooty Owl response to restoration management actions and analyse results. The study would include assessment of relative efficacy of each active restoration management action. Note that while research into restoration management actions may not be appropriate for entities such as BGW, we consider it to be essential for Sooty Owl given it is listed as an SAI entity under Principle 4, which states that the *‘species or ecological community is unlikely to respond to measures to improve its habitat and vegetation integrity and therefore its members are not replaceable.’* Additionally, the Biodiversity Conservation Trust’s Guidelines on Artificial Hollows and the NSW Recovery Plan for Sooty Owl both state *‘The potential for artificial hollows (nest-boxes) to fast-track habitat development for owls should be investigated.’* Therefore, research is required to uncover methods that may improve the species habitat.

During consultation with the EaTS in May and June 2024, they indicated the preferred management action for Sooty Owl would be installation of nest boxes because additional management actions, such as

supplementary planting or installation of coarse woody debris, could interfere with scientific robustness of monitoring efforts.

Funding and delivery model

We estimate the total cost of delivery of the above restoration actions for Sooty Owl to be approximately **\$473,900.00** (see sheet four in attached spreadsheet).

Justification

Our proposal for Sooty Owl is **additional** for the following reasons –

- It will **generate knowledge** about the efficacy of untested habitat restoration methods for the species

Our proposal for Sooty Owl is **appropriate** for the following reasons –

- It aims to **address one of the key habitat constraints** for the species, being large cavities for breeding
- It contains a **research component**, which is consistent with listing as SAI under Principle 4

Summary of A&AM proposals

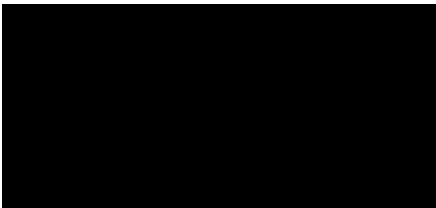
In summary, Transgrid is proposing a total of **\$7,063,800.00** of additional and appropriate measures to compensate for 524.91 ha of likely SAI to three SAI entities as a result of HumeLink's development footprint (See Table 2). This is equivalent to **\$12,808.00** per ha of SAI.

Table 2 – Summary of the value of additional and appropriate measures proposed to compensate for HumeLink's likely serious and irreversible impact.

SAI entity	SAI impact (ha)	Additional and appropriate measure (\$)	Cost per ha for A&AM
Box Gum Woodland	477.91	\$6,318,000.00	\$13,220.00
Rice Flower	4.76	\$271,900.00	\$57,121.00
Sooty Owl	68.81	\$473,900.00	\$6,887.00
Total	551.48	\$7,063,800.00	\$12,808.00

For further detail on how costings were calculated, please refer to the attached spreadsheet and zip folder containing proposals and quotes, or contact [REDACTED] [REDACTED]

Yours faithfully,



Biodiversity Manager

2 September 2024

Annexure K Biodiversity figures



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Metres

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Scale: 1:25,000 (when printed at A3)

Legend

HLW Area

SAIL

TEC

White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland (BC Act)

White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland (BC Act and EPBC Act)

Vegetation Communities and Zones

266 - White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion(266: Low)

266 - White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion(266: Moderate)

277 - Blakelys Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion(277: High)

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277 - Blakelys Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion(277: Very low)

319 - Tumbledown Red Gum - White Cypress Pine hill woodland in the southern part of the NSW South Western Slopes Bioregion(319: Low)

319 - Tumbledown Red Gum - White Cypress Pine hill woodland in the southern part of the NSW South Western Slopes Bioregion(319: Moderate)

343 - Mugga Ironbark - Red Box - Red Stringybark - Western Grey Box grass/shrub woodland on metamorphic substrates in the Tarcutta - Gundagai region, NSW South Western Slopes Bioregion(343: Low)

343 - Mugga Ironbark - Red Box - Red Stringybark - Western Grey Box grass/shrub woodland on metamorphic substrates in the Tarcutta - Gundagai region, NSW South Western Slopes Bioregion(343: Moderate)

0 - Non-native (Non-native)

9996 - Non-native (Roads)

9997 - Non-native (Waterbodies)

9998 - Non-native (Planted vegetation)

World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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Vegetation Communities and Zones

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 278 - Riparian Blakelys Red Gum - box - shrub - sedge - grass tall open forest of the central NSW South Western Slopes Bioregion(278: High)

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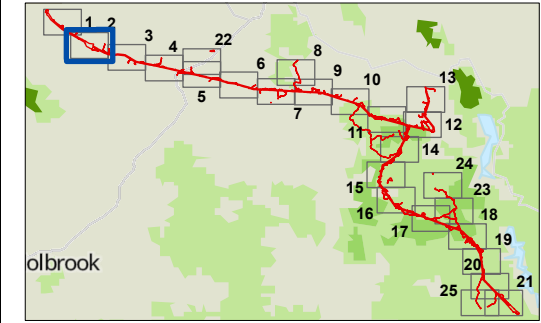
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 9997 - Non-native (Waterbodies)

 9998 - Non-native (Planted vegetation)



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Vegetation

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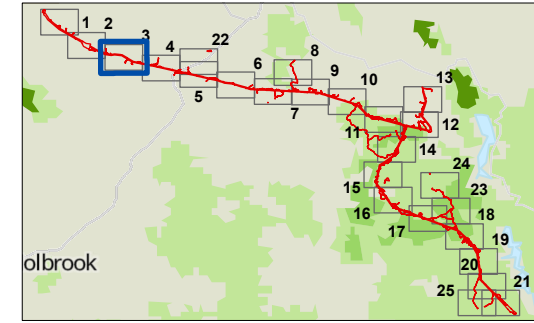
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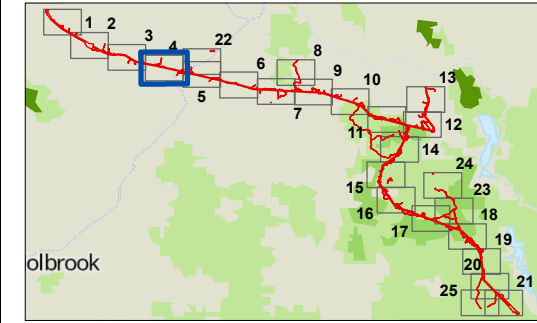
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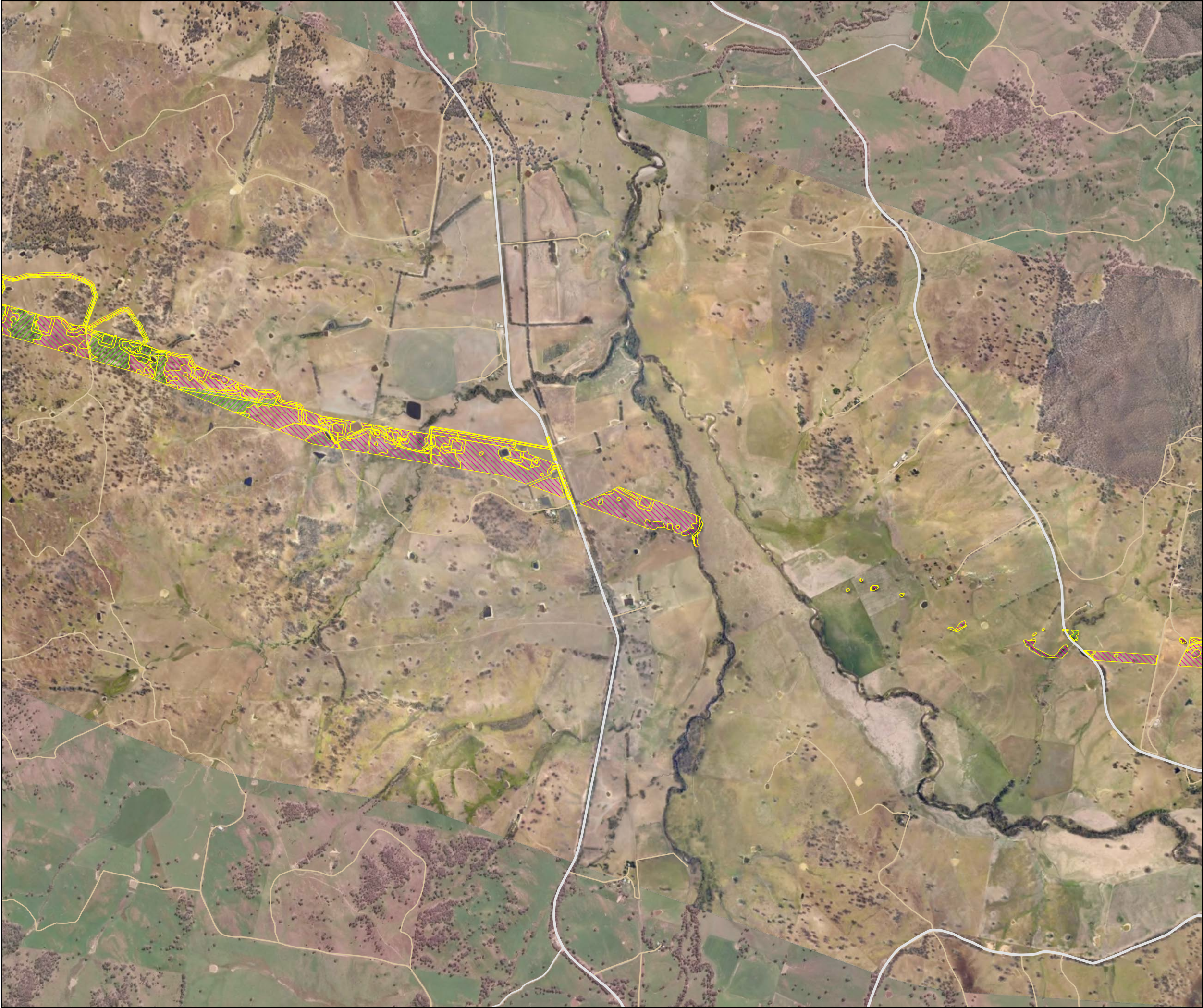


9998 - Non-native (Planted vegetation)



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 268 - White Box - Blakelys Red Gum - Long-leaved Box - Nortons Box - Red Stringybark grass-shrub woodland on shallow soils on hills in the NSW South Western Slopes Bioregion(268: High)

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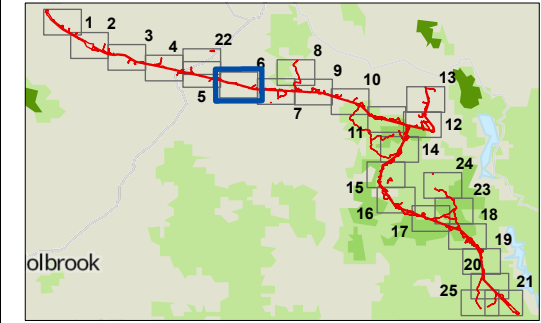
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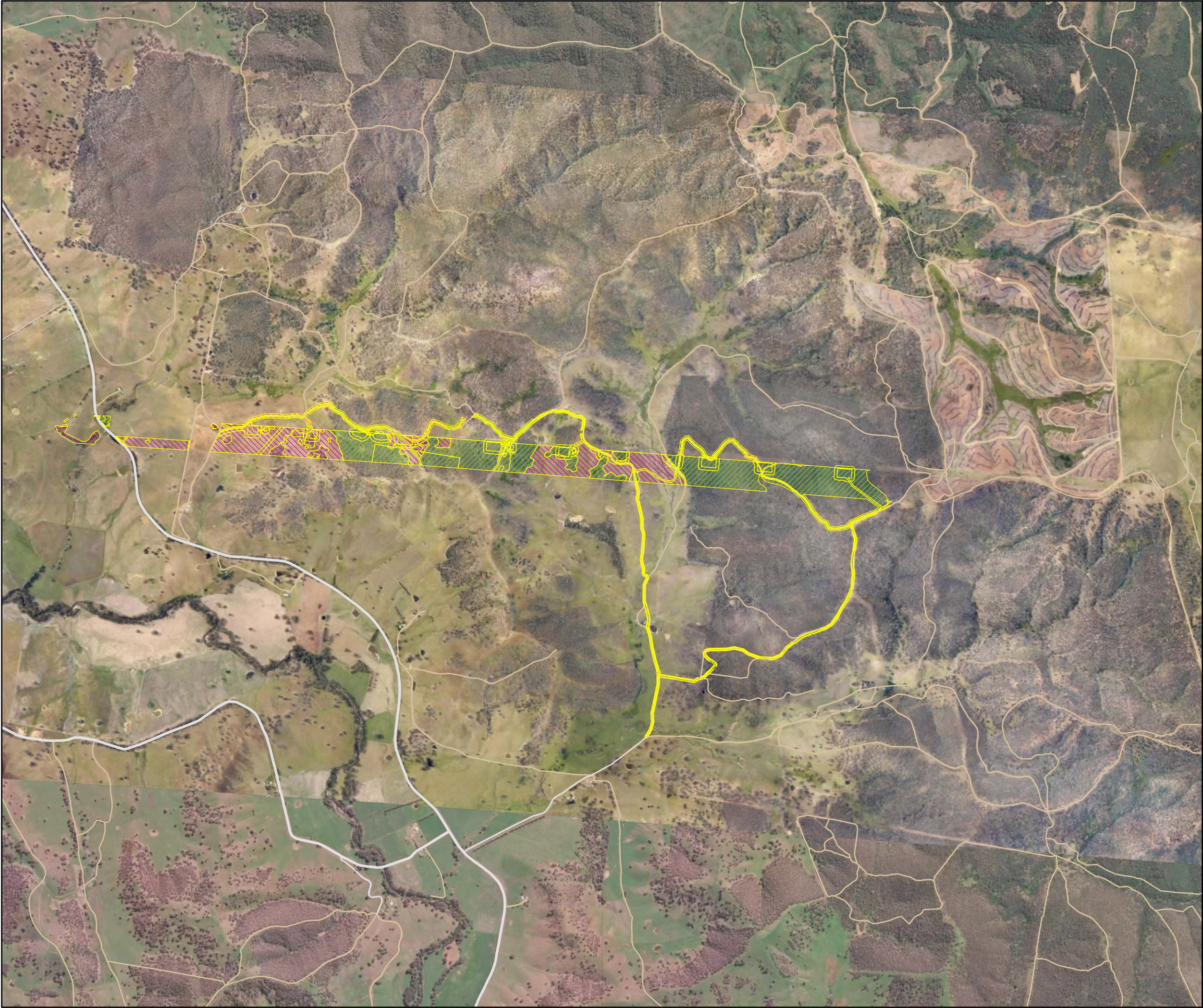
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Vegetation

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CONTRACTORS

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HLW Area

SAII

TEC

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Vegetation Communities and Zones

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280 - Red Stringybark - Blakelys Red Gum +/- Long-leaved Box shrub/grass hill woodland of the NSW South Western Slopes Bioregion(280: High)

287 - Long-leaved Box - Red Box - Red Stringybark mixed open forest on hills and hillslopes in the NSW South Western Slopes Bioregion(287: High)

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290 - Red Stringybark - Red Box - Long-leaved Box - Inland Scribbly Gum tussock grass - shrub low open forest on hills in the southern part of the NSW South Western Slopes Bioregion(290: High)

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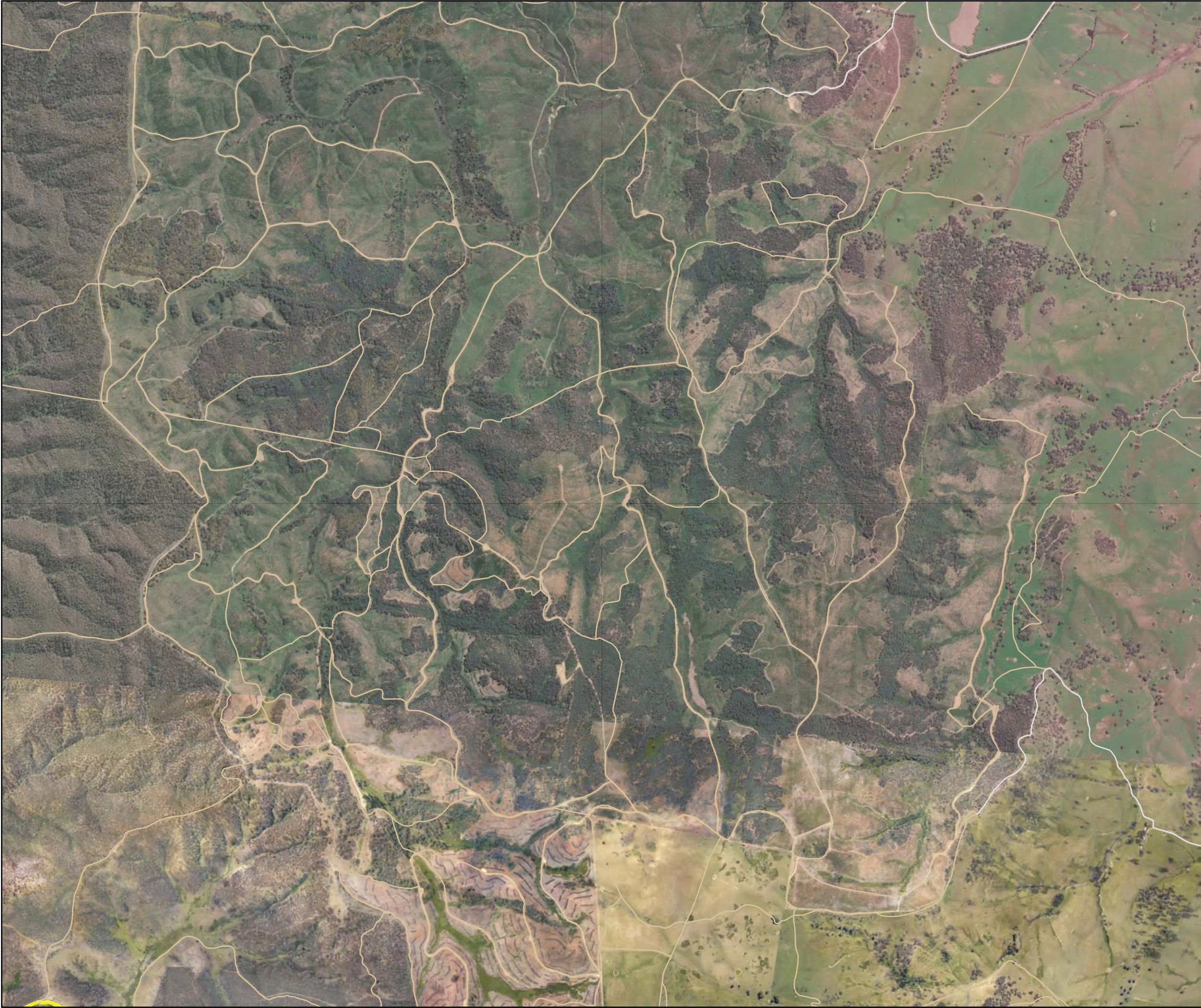
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287 - Long-leaved Box - Red Box - Red Stringybark mixed open forest on hills and hillslopes in the NSW South Western Slopes Bioregion(287: High)

290 - Red Stringybark - Red Box - Long-leaved Box - Inland Scribbly Gum tussock grass - shrub low open forest on hills in the southern part of the NSW South Western Slopes Bioregion(290: Moderate)

290 - Red Stringybark - Red Box - Long-leaved Box - Inland Scribbly Gum tussock grass - shrub low open forest on hills in the southern part of the NSW South Western Slopes Bioregion(290: Very low)

295 - Robertsons Peppermint - Broad-leaved Peppermint - Nortons Box - stringybark shrub-fern open forest of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(295: Moderate)

299 - Riparian Ribbon Gum - Robertsons Peppermint - Apple Box riverine very tall open forest of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(299: Moderate)

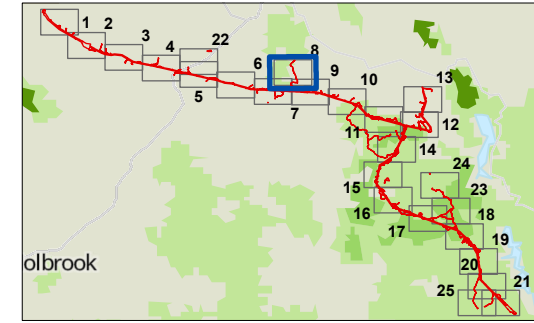
306 - Red Box - Red Stringybark - Nortons Box hill heath shrub - tussock grass open forest of the Tumut region(306: Low)

316 - Nortons Box - Red Box - Red Stringybark +/- Nodding Flax Lily forb-grass open forest mainly on the Tumut region(316: Low)

0 - Non-native (Non-native)

9996 - Non-native (Roads)

9997 - Non-native (Waterbodies)



World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

DRAWN:	NW	Vegetation
REVIEWED:	PI	
VERIFIED:	CM	
APPROVED:		
REV:	2	
DATE:	30/04/2025	Page 8 of 25
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DRAWING NO:	HLW_Overview	



Transgrid



CPB
CONTRACTORS

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Metres

Datum: GDA2020 Projection MGA Zone 55

Scale: 1:25,000 (when printed at A3)

Legend

HLW Area

SAIL

TEC

White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland (BC Act)

White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland (BC Act and EPBC Act)

Vegetation Communities and Zones

278 - Riparian Blakelys Red Gum - box - shrub - sedge - grass tall open forest of the central NSW South Western Slopes Bioregion(278: Very low)

280 - Red Stringybark - Blakelys Red Gum +/- Long-leaved Box shrub/grass hill woodland of the NSW South Western Slopes Bioregion(280: High)

280 - Red Stringybark - Blakelys Red Gum +/- Long-leaved Box shrub/grass hill woodland of the NSW South Western Slopes Bioregion(280: Low)

287 - Long-leaved Box - Red Box - Red Stringybark mixed open forest on hills and hillslopes in the NSW South Western Slopes Bioregion(287: Moderate)

287 - Long-leaved Box - Red Box - Red Stringybark mixed open forest on hills and hillslopes in the NSW South Western Slopes Bioregion(287: Very low)

290 - Red Stringybark - Red Box - Long-leaved Box - Inland Scribbly Gum tussock grass - shrub low open forest on hills in the southern part of the NSW South Western Slopes Bioregion(290: High)

290 - Red Stringybark - Red Box - Long-leaved Box - Inland Scribbly Gum tussock grass - shrub low open forest on hills in the southern part of the NSW South Western Slopes Bioregion(290: Low)

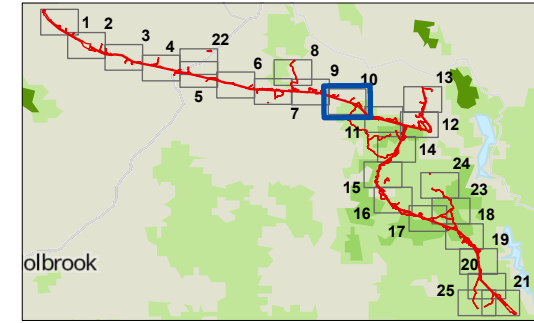
290 - Red Stringybark - Red Box - Long-leaved Box - Inland Scribbly Gum tussock grass - shrub low open forest on hills in the southern part of the NSW South Western Slopes Bioregion(290: Very low)

299 - Riparian Ribbon Gum - Robertsons Peppermint - Apple Box riverine very tall open forest of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(299: Very low)

0 - Non-native (Non-native)

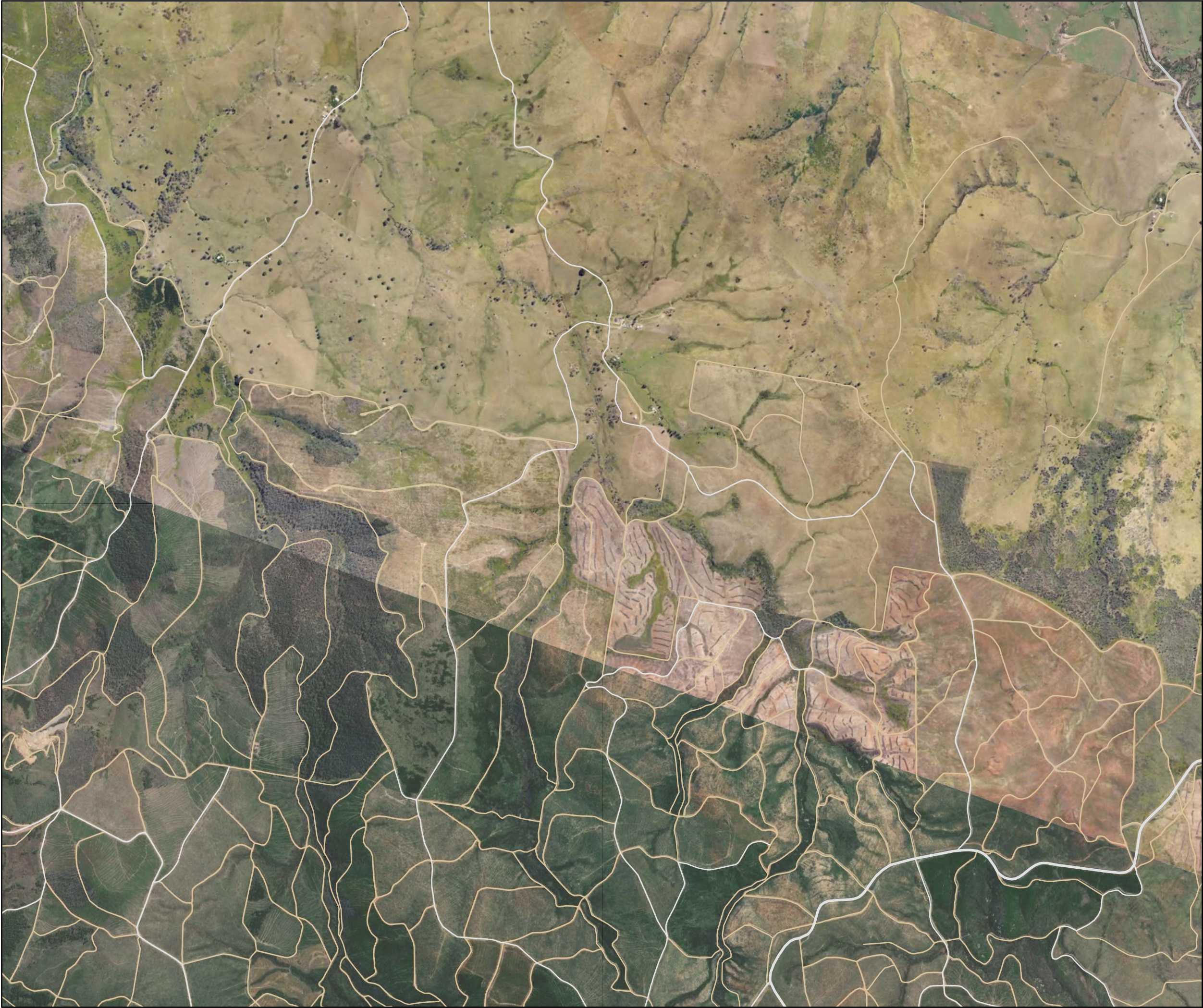
9996 - Non-native (Roads)

9997 - Non-native (Waterbodies)



World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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Metres

Datum: GDA2020 Projection MGA Zone 55

Scale: 1:25,000 (when printed at A3)

Legend

 HLW Area

Vegetation Communities and Zones

 285 - Broad-leaved Sally grass - sedge woodland on valley flats and swamps in the NSW South Western Slopes Bioregion and adjoining South Eastern Highlands Bioregion(285: Low)

 290 - Red Stringybark - Red Box - Long-leaved Box - Inland Scribbly Gum tussock grass - shrub low open forest on hills in the southern part of the NSW South Western Slopes Bioregion(290: Low)

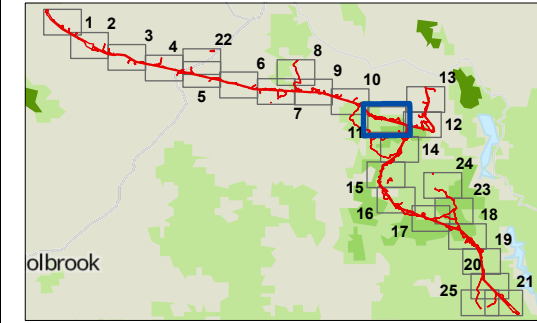
 299 - Riparian Ribbon Gum - Robertsons Peppermint - Apple Box riverine very tall open forest of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(299: Moderate)

 299 - Riparian Ribbon Gum - Robertsons Peppermint - Apple Box riverine very tall open forest of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(299: Very low)

 0 - Non-native (Non-native)

 9996 - Non-native (Roads)

 9997 - Non-native (Waterbodies)



World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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Legend

HLW Area

SAII

999

999

TEC

White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland (BC Act)

White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland (BC Act and EPBC Act)

Vegetation Communities and Zones

277 - Blakelys Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion(277: Low)

277 - Blakelys Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion(277: Moderate)

277 - Blakelys Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion(277: Very low)

280 - Red Stringybark - Blakelys Red Gum +/- Long-leaved Box shrub/grass hill woodland of the NSW South Western Slopes Bioregion(280: Very low)

299 - Riparian Ribbon Gum - Robertsons Peppermint - Apple Box riverine very tall open forest of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(299: Low)

299 - Riparian Ribbon Gum - Robertsons Peppermint - Apple Box riverine very tall open forest of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(299: Moderate)

299 - Riparian Ribbon Gum - Robertsons Peppermint - Apple Box riverine very tall open forest of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(299: Very low)

306 - Red Box - Red Stringybark - Nortons Box hill heath shrub - tussock grass open forest of the Tumut region(306: Very low)

352 - Red Stringybark - Blakelys Red Gum hillslope open forest on meta-sediments in the Yass - Boorowa - Crookwell region of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(352: Low)

352 - Red Stringybark - Blakelys Red Gum hillslope open forest on meta-sediments in the Yass - Boorowa - Crookwell region of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(352: Very low)

731 - Broad-leaved Peppermint - Red Stringybark grassy open forest on undulating hills, South Eastern Highlands Bioregion(731: Low)

731 - Broad-leaved Peppermint - Red Stringybark grassy open forest on undulating hills, South Eastern Highlands Bioregion(731: Very low)

0 - Non-native (Non-native)

9996 - Non-native (Roads)

World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

DRAWN:	NW	Vegetation
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DATE:	30/04/2025	Page 13 of 25
DESCRIPTION:	Issued for submission	
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Transgrid



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Metres

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Legend

HLW Area

SAIL

TEC

Tableland Basalt Forest (BC Act)

Vegetation Communities and Zones

285 - Broad-leaved Sally grass - sedge woodland on valley flats and swamps in the NSW South Western Slopes Bioregion and adjoining South Eastern Highlands Bioregion(285: High)

285 - Broad-leaved Sally grass - sedge woodland on valley flats and swamps in the NSW South Western Slopes Bioregion and adjoining South Eastern Highlands Bioregion(285: Very high)

299 - Riparian Ribbon Gum - Robertsons Peppermint - Apple Box riverine very tall open forest of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(299: Moderate)

299 - Riparian Ribbon Gum - Robertsons Peppermint - Apple Box riverine very tall open forest of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(299: Very low)

300 - Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment(300: Moderate)

953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Low)

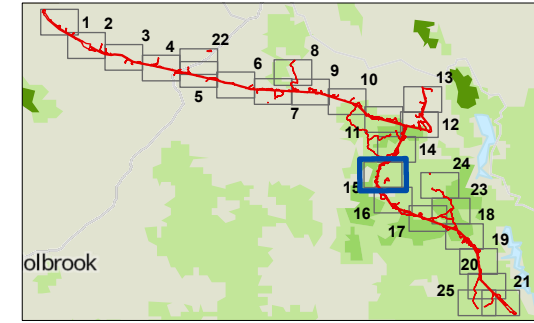
953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Moderate)

953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Very low)

0 - Non-native (Non-native)

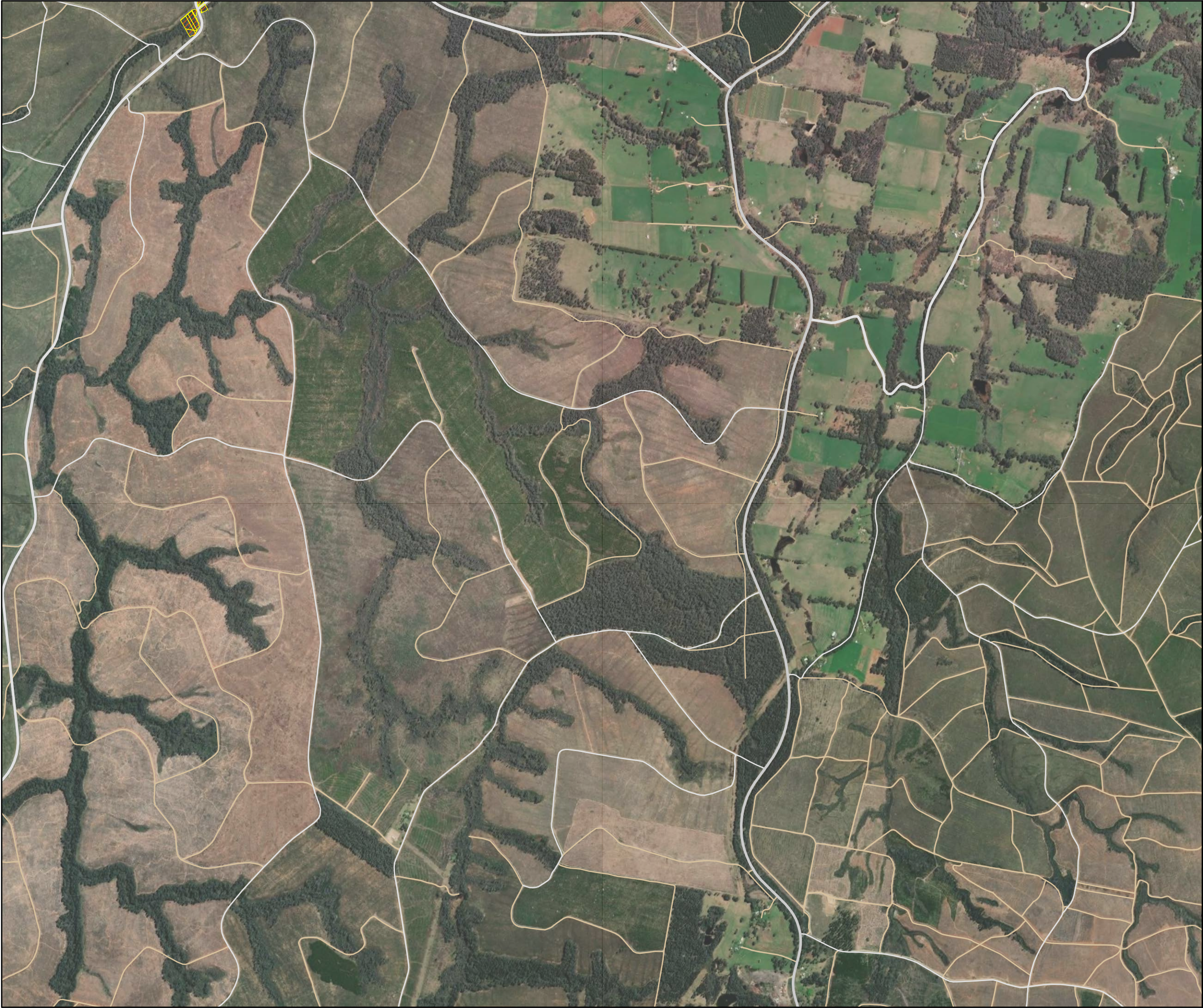
9996 - Non-native (Roads)

9997 - Non-native (Waterbodies)



World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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DESCRIPTION:	Issued for submission	Page 15 of 25
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Datum: GDA2020 Projection MGA Zone 55

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HLW Area

SAIL

TEC

Tableland Basalt Forest (BC Act)

Vegetation Communities and Zones

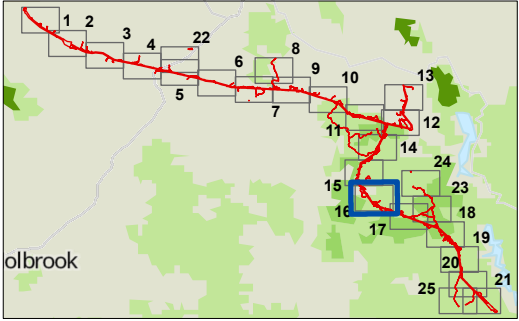
299 - Riparian Ribbon Gum - Robertsons Peppermint - Apple Box riverine very tall open forest of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(299: Moderate)

300 - Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment(300: Moderate)

953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Moderate)

0 - Non-native (Non-native)

9996 - Non-native (Roads)



oolbrook

World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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DATE: 30/04/2025

DESCRIPTION: Issued for submission

DRAWING NO: HLW_Overview

Vegetation

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Scale: 1:25,000 (when printed at A3)

Legend

 HLW Area

 SAIL

TEC

 Tableland Basalt Forest (BC Act)

Vegetation Communities and Zones

 285 - Broad-leaved Sally grass - sedge woodland on valley flats and swamps in the NSW South Western Slopes Bioregion and adjoining South Eastern Highlands Bioregion(285: High)

 285 - Broad-leaved Sally grass - sedge woodland on valley flats and swamps in the NSW South Western Slopes Bioregion and adjoining South Eastern Highlands Bioregion(285: Low)

 299 - Riparian Ribbon Gum - Robertsons Peppermint - Apple Box riverine very tall open forest of the NSW South Western Slopes Bioregion and South Eastern Highlands Bioregion(299: Moderate)

 638 - Alpine Ash - Mountain Gum moist shrubby tall open forest of montane areas, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(638: High)

 638 - Alpine Ash - Mountain Gum moist shrubby tall open forest of montane areas, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(638: Low)

 638 - Alpine Ash - Mountain Gum moist shrubby tall open forest of montane areas, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(638: Moderate)

 638 - Alpine Ash - Mountain Gum moist shrubby tall open forest of montane areas, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(638: Very low)

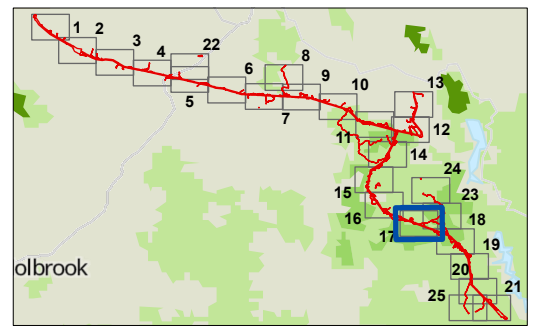
 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: High)

 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Moderate)

 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Very high)

 0 - Non-native (Non-native)

 9996 - Non-native (Roads)



oolbrook

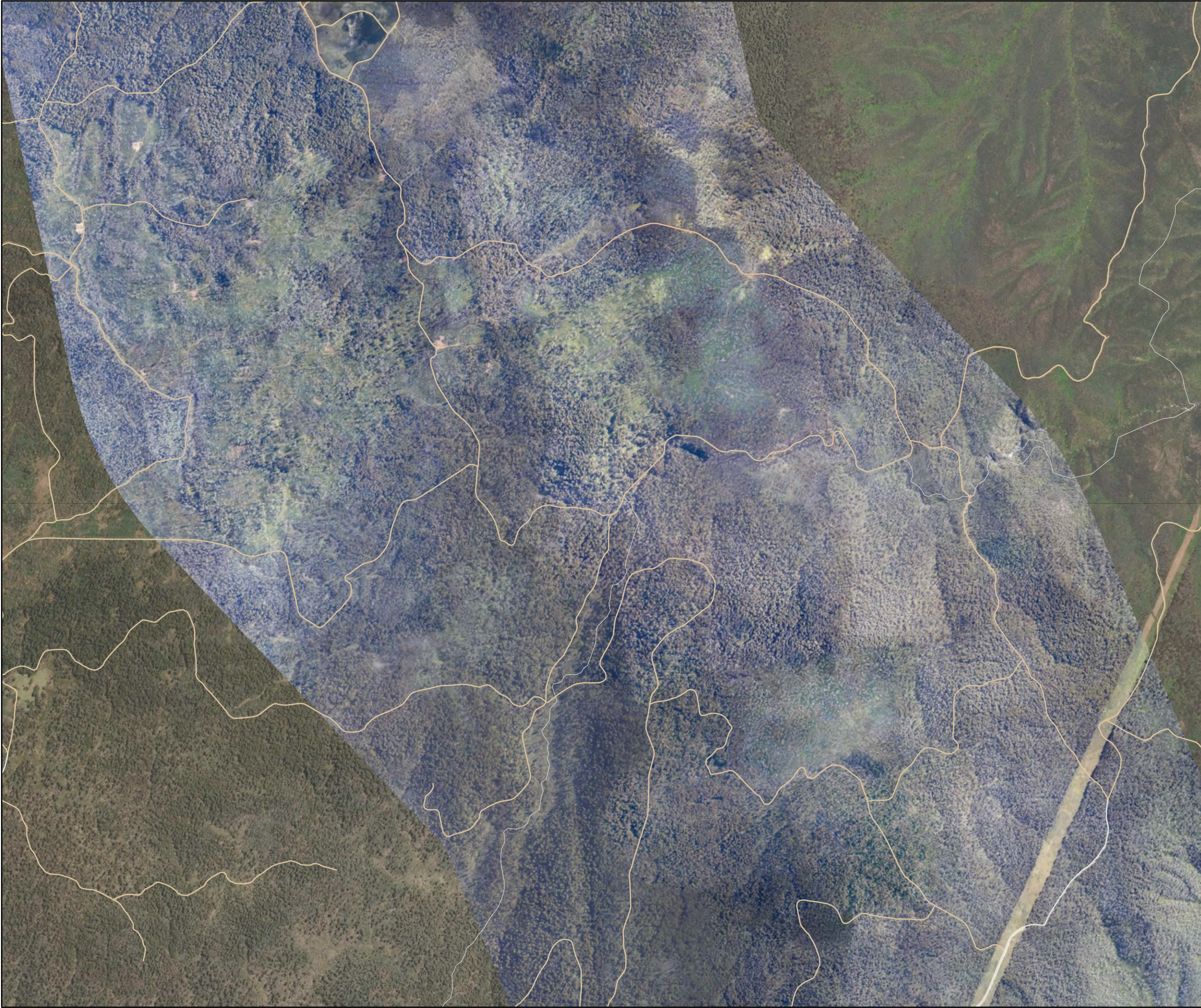
World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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REV:	2
DATE:	30/04/2025
DESCRIPTION:	Issued for submission
DRAWING NO:	HLW_Overview

Vegetation

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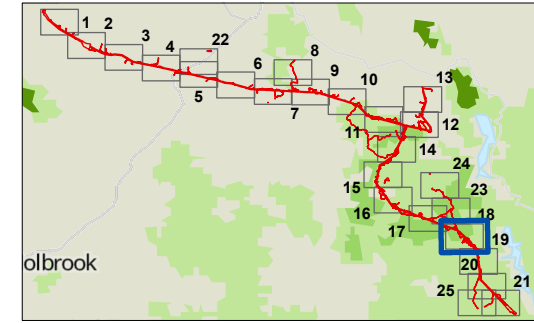


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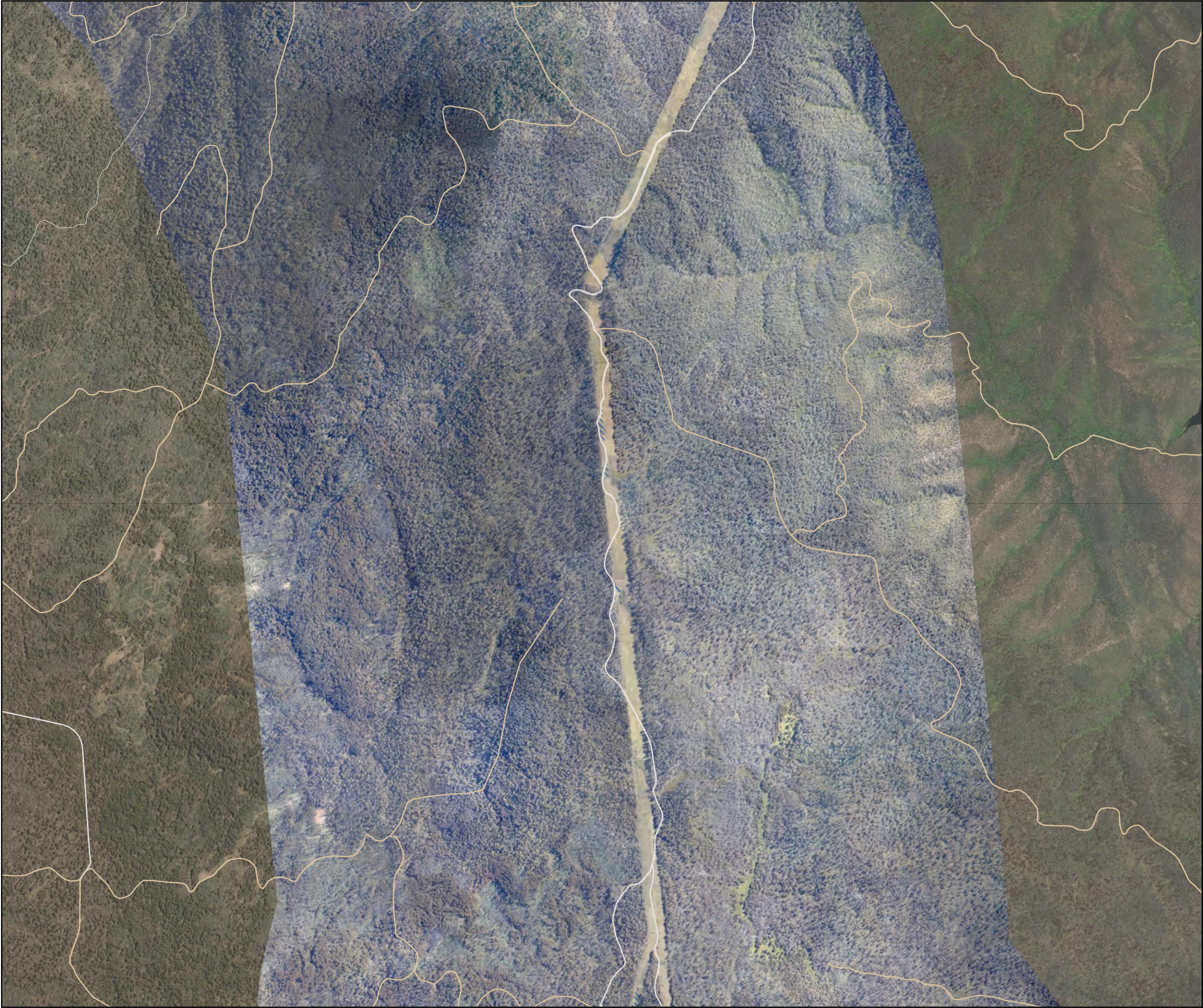
TEC
 Montane Peatlands and Swamps (BC Act) / Alpine Sphagnum Bogs and Associated Fen (EBPC Act)

Vegetation Communities and Zones
 285 - Broad-leaved Sally grass - sedge woodland on valley flats and swamps in the NSW South Western Slopes Bioregion and adjoining South Eastern Highlands Bioregion(285: Low)
 300 - Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment(300: Very high)
 638 - Alpine Ash - Mountain Gum moist shrubby tall open forest of montane areas, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(638: High)
 638 - Alpine Ash - Mountain Gum moist shrubby tall open forest of montane areas, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(638: Low)
 638 - Alpine Ash - Mountain Gum moist shrubby tall open forest of montane areas, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(638: Moderate)
 939 - Montane wet heath and bog of the eastern tablelands, South Eastern Highlands Bioregion(939: High)
 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: High)
 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Low)
 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Moderate)
 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Very high)
 0 - Non-native (Non-native)
 9996 - Non-native (Roads)



World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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Datum: GDA2020 Projection MGA Zone 55
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Legend

 HLW Area

TEC

 Montane Peatlands and Swamps (BC Act) / Alpine Sphagnum Bogs and Associated Fen (EBPC Act)

Vegetation Communities and Zones

 300 - Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment(300: Low)

 300 - Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment(300: Moderate)

 300 - Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment(300: Very high)

 679 - Black Sallee - Snow Gum low woodland of montane valleys, South Eastern Highlands Bioregion and Australian Alps Bioregion(679: Low)

 939 - Montane wet heath and bog of the eastern tablelands, South Eastern Highlands Bioregion(939: High)

 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: High)

 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Low)

 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Moderate)

 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Very high)

 1196 - Snow Gum - Mountain Gum shrubby open forest of montane areas, South Eastern Highlands Bioregion and Australian Alps Bioregion(1196: High)

 1196 - Snow Gum - Mountain Gum shrubby open forest of montane areas, South Eastern Highlands Bioregion and Australian Alps Bioregion(1196: Low)

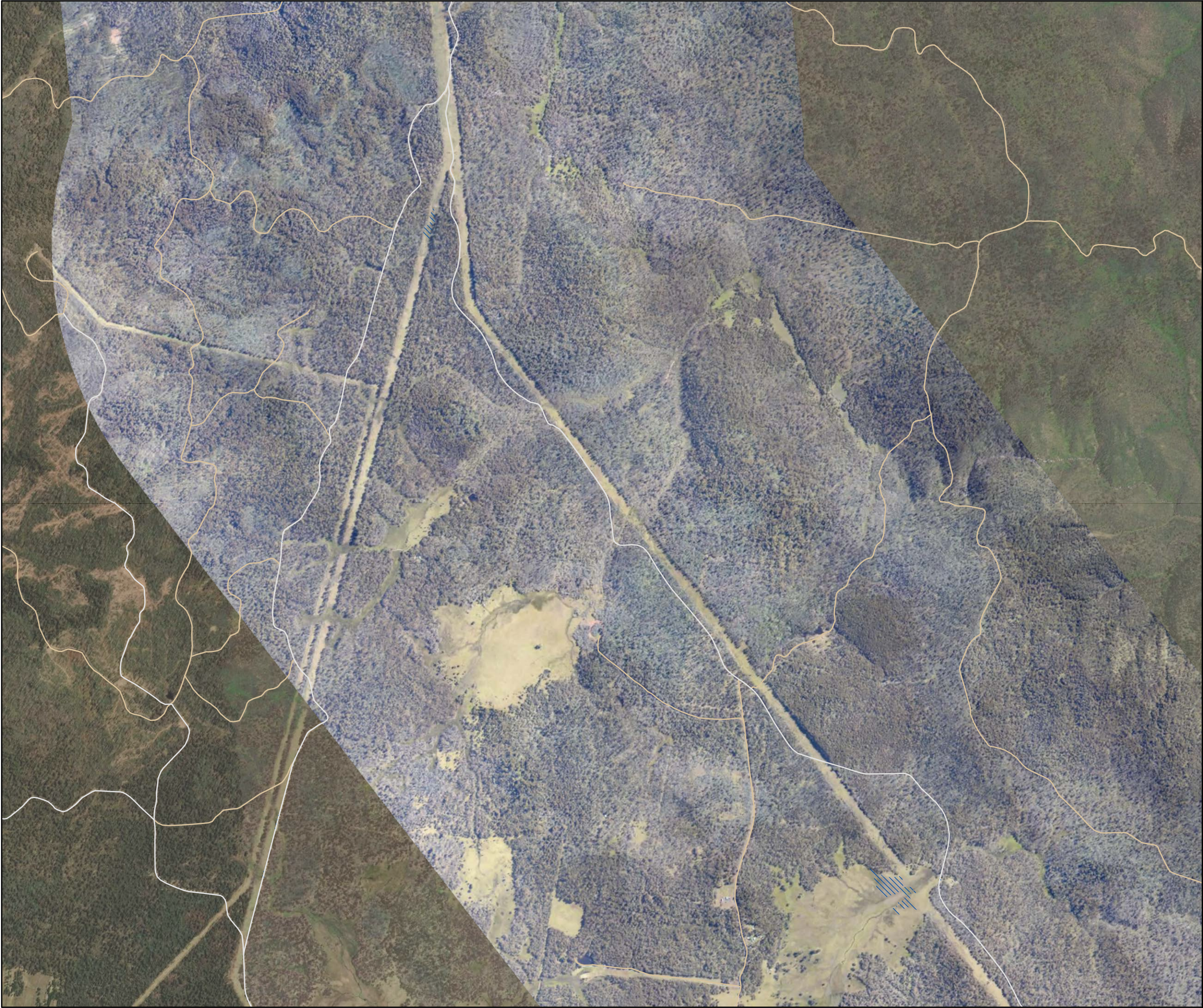
 0 - Non-native (Non-native)

 9996 - Non-native (Roads)

World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

DRAWN:	NW	Vegetation
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Legend

HLW Area

122

Sub

TEC

Montane Peatlands and Swamps (BC Act) / Alpine Sphagnum Bogs and Associated Fen (EBPC Act)

0 - 999

Vegetation Communities and Zones

300 - Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment(300: Low)

300 - Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment(300: Moderate)

300 - Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment(300: Very high)

637 - Alpine and sub-alpine peatlands, damp herbfields and fens, South Eastern Highlands Bioregion and Australian Alps Bioregion(637: High)

679 - Black Sallee - Snow Gum low woodland of montane valleys, South Eastern Highlands Bioregion and Australian Alps Bioregion(679: High)

679 - Black Sallee - Snow Gum low woodland of montane valleys, South Eastern Highlands Bioregion and Australian Alps Bioregion(679: Low)

939 - Montane wet heath and bog of the eastern tablelands, South Eastern Highlands Bioregion(939: High)

953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: High)

953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Low)

953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Moderate)

953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Very high)

1196 - Snow Gum - Mountain Gum shrubby open forest of montane areas, South Eastern Highlands Bioregion and Australian Alps Bioregion(1196: High)

1196 - Snow Gum - Mountain Gum shrubby open forest of montane areas, South Eastern Highlands Bioregion and Australian Alps Bioregion(1196: Low)

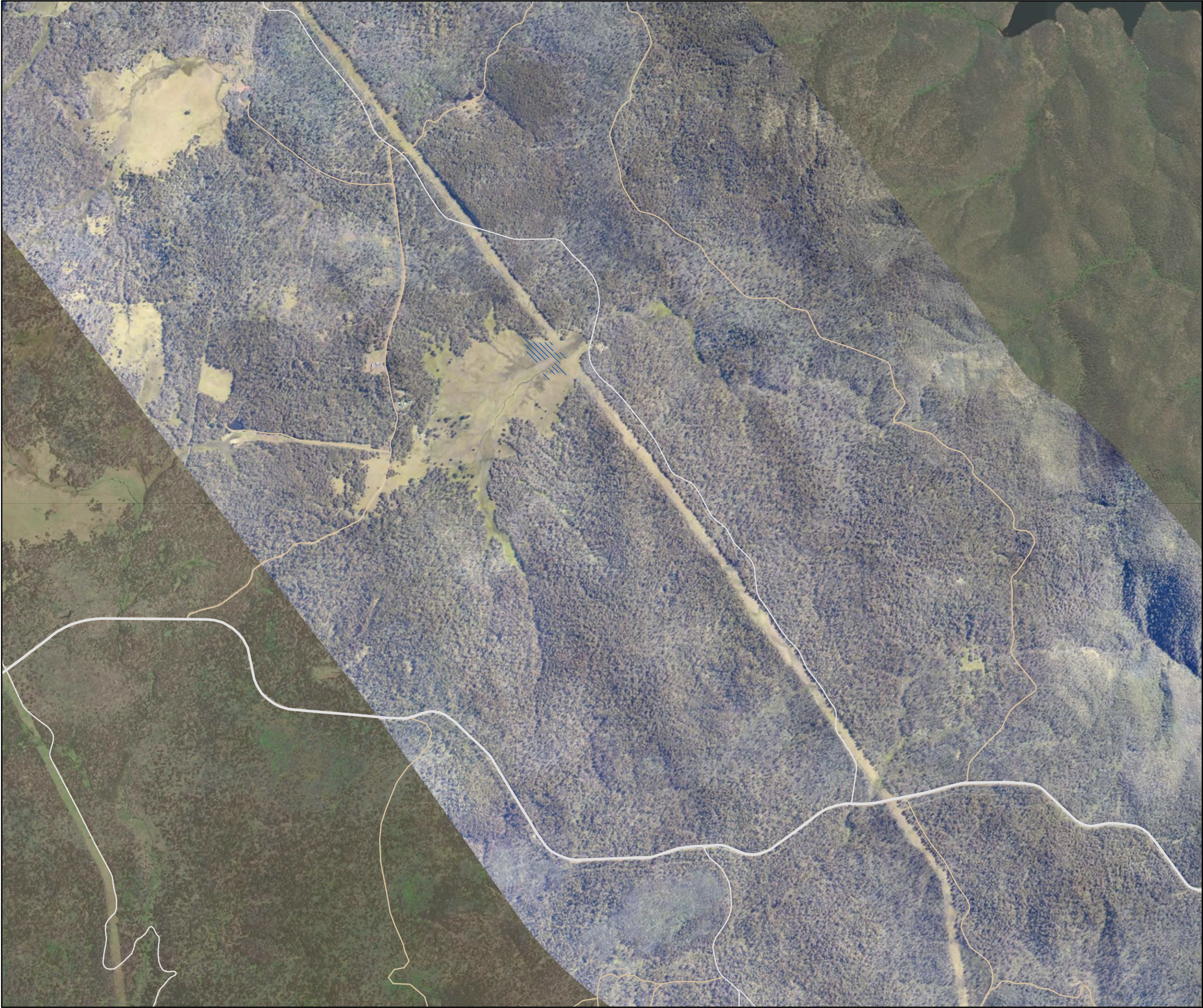
World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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Vegetation

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Datum: GDA2020 Projection MGA Zone 55

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Legend

HLW Area

TEC

Montane Peatlands and Swamps (BC Act) / Alpine Sphagnum Bogs and Associated Fen (EBPC Act)

Vegetation Communities and Zones

637 - Alpine and sub-alpine peatlands, damp herbfields and fens, South Eastern Highlands Bioregion and Australian Alps Bioregion(637: High)

638 - Alpine Ash - Mountain Gum moist shrubby tall open forest of montane areas, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(638: High)

679 - Black Sallee - Snow Gum low woodland of montane valleys, South Eastern Highlands Bioregion and Australian Alps Bioregion(679: High)

679 - Black Sallee - Snow Gum low woodland of montane valleys, South Eastern Highlands Bioregion and Australian Alps Bioregion(679: Low)

953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: High)

953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Low)

953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Moderate)

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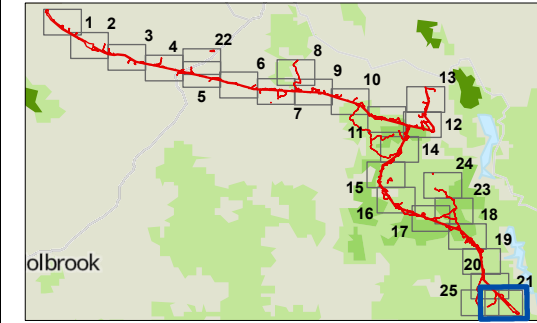
1196 - Snow Gum - Mountain Gum shrubby open forest of montane areas, South Eastern Highlands Bioregion and Australian Alps Bioregion(1196: High)

1196 - Snow Gum - Mountain Gum shrubby open forest of montane areas, South Eastern Highlands Bioregion and Australian Alps Bioregion(1196: Low)

1224 - Sub-alpine dry grasslands and heathlands of valley slopes, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(1224: High)

9996 - Non-native (Roads)

9997 - Non-native (Waterbodies)



World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
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Metres

Datum: GDA2020 Projection MGA Zone 55
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Legend

HLW Area

SAII

TEC

White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland (BC Act)

White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland (BC Act and EPBC Act)

Vegetation Communities and Zones

268 - White Box - Blakelys Red Gum - Long-leaved Box - Nortons Box - Red Stringybark grass-shrub woodland on shallow soils on hills in the NSW South Western Slopes Bioregion(268: Very low)

277 - Blakelys Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion(277: High)

277 - Blakelys Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion(277: Low)

277 - Blakelys Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion(277: Moderate)

277 - Blakelys Red Gum - Yellow Box grassy tall woodland of the NSW South Western Slopes Bioregion(277: Very low)

343 - Mugga Ironbark - Red Box - Red Stringybark - Western Grey Box grass/shrub woodland on metamorphic substrates in the Tarcutta - Gundagai region, NSW South Western Slopes Bioregion(343: Low)

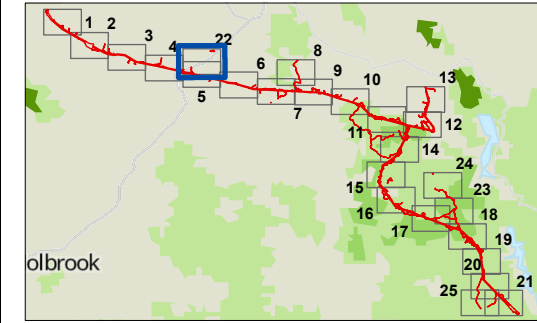
343 - Mugga Ironbark - Red Box - Red Stringybark - Western Grey Box grass/shrub woodland on metamorphic substrates in the Tarcutta - Gundagai region, NSW South Western Slopes Bioregion(343: Moderate)

343 - Mugga Ironbark - Red Box - Red Stringybark - Western Grey Box grass/shrub woodland on metamorphic substrates in the Tarcutta - Gundagai region, NSW South Western Slopes Bioregion(343: Very low)

0 - Non-native (Non-native)

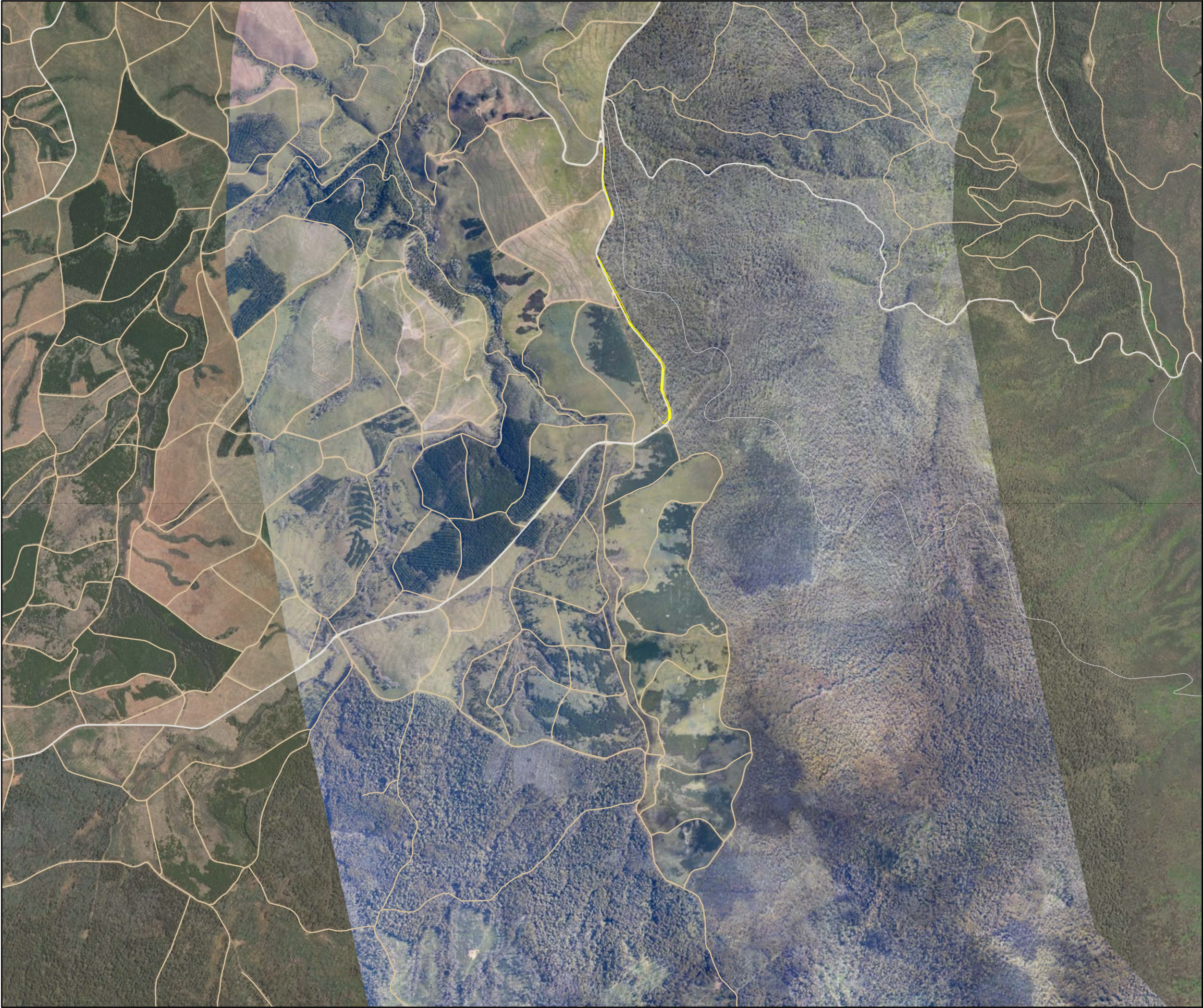
9996 - Non-native (Roads)

9997 - Non-native (Waterbodies)



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Metres

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Legend

 HLW Area

 SAIL

TEC

 Tableland Basalt Forest (BC Act)

Vegetation Communities and Zones

 285 - Broad-leaved Sally grass - sedge woodland on valley flats and swamps in the NSW South Western Slopes Bioregion and adjoining South Eastern Highlands Bioregion(285: High)

 285 - Broad-leaved Sally grass - sedge woodland on valley flats and swamps in the NSW South Western Slopes Bioregion and adjoining South Eastern Highlands Bioregion(285: Low)

 638 - Alpine Ash - Mountain Gum moist shrubby tall open forest of montane areas, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(638: High)

 638 - Alpine Ash - Mountain Gum moist shrubby tall open forest of montane areas, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(638: Low)

 638 - Alpine Ash - Mountain Gum moist shrubby tall open forest of montane areas, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(638: Moderate)

 638 - Alpine Ash - Mountain Gum moist shrubby tall open forest of montane areas, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(638: Very low)

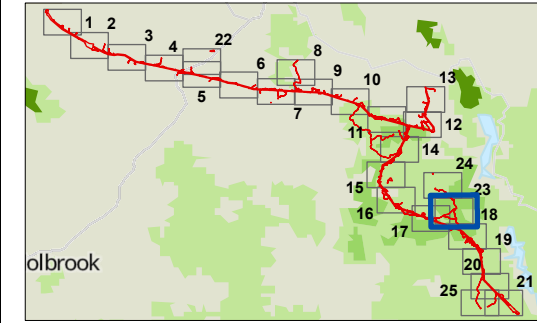
 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: High)

 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Moderate)

 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Very high)

 0 - Non-native (Non-native)

 9996 - Non-native (Roads)



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HLW Area

SAIL

TEC

Tableland Basalt Forest (BC Act)

Vegetation Communities and Zones

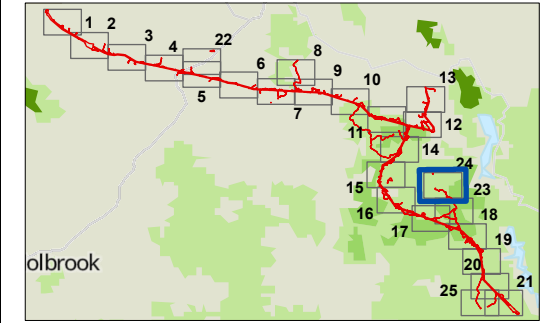
285 - Broad-leaved Sally grass - sedge woodland on valley flats and swamps in the NSW South Western Slopes Bioregion and adjoining South Eastern Highlands Bioregion(285: Very low)

300 - Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment(300: Low)

953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Moderate)

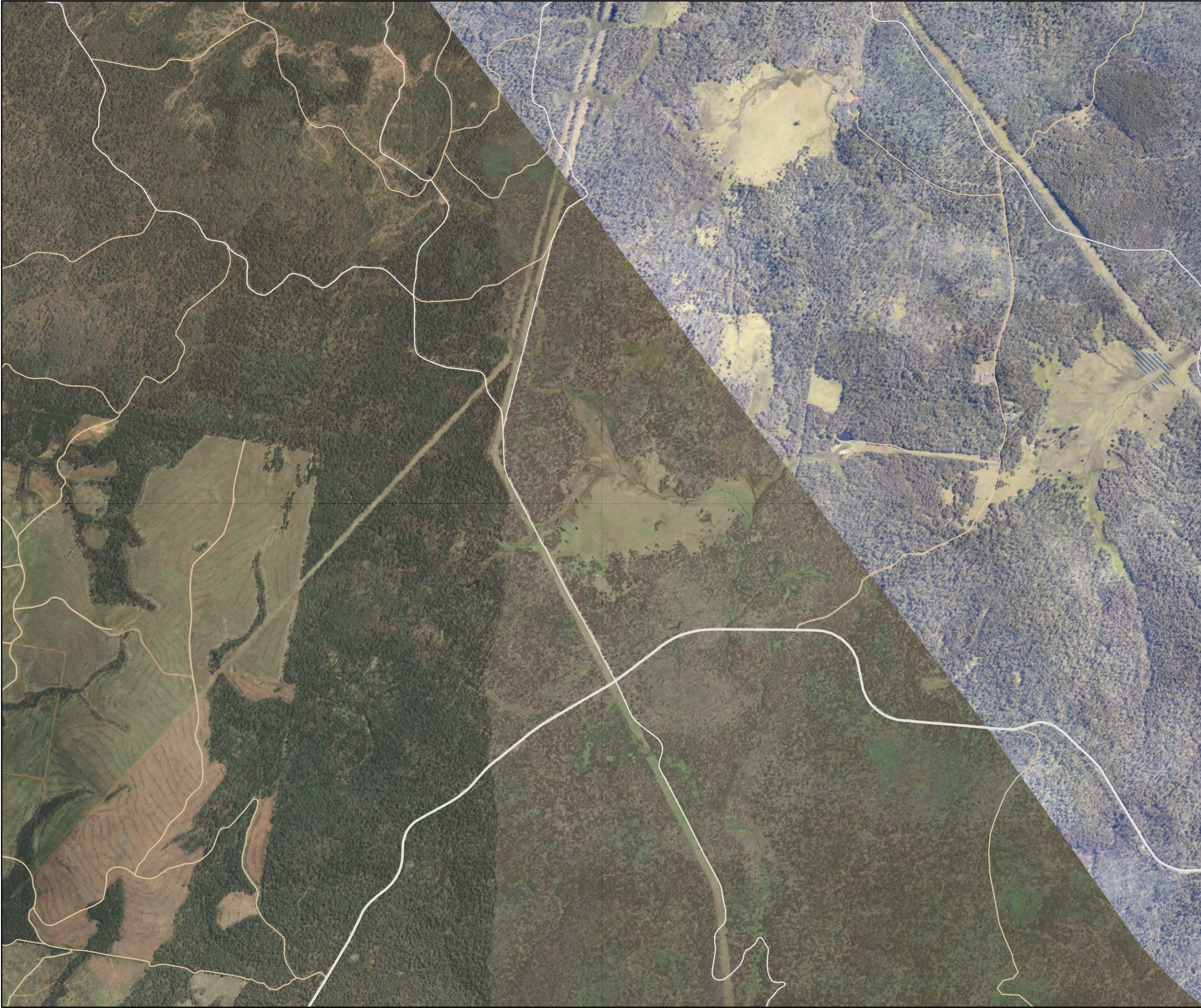
0 - Non-native (Non-native)

9996 - Non-native (Roads)



World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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Legend

 HLW Area

TEC

 Montane Peatlands and Swamps (BC Act) / Alpine Sphagnum Bogs and Associated Fen (EBPC Act)

Vegetation Communities and Zones

 637 - Alpine and sub-alpine peatlands, damp herbfields and fens, South Eastern Highlands Bioregion and Australian Alps Bioregion(637: High)

 679 - Black Sallee - Snow Gum low woodland of montane valleys, South Eastern Highlands Bioregion and Australian Alps Bioregion(679: High)

 679 - Black Sallee - Snow Gum low woodland of montane valleys, South Eastern Highlands Bioregion and Australian Alps Bioregion(679: Low)

 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: High)

 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Low)

 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Moderate)

 953 - Mountain Gum - Snow Gum - Broad-leaved Peppermint shrubby open forest of montane ranges, South Eastern Highlands Bioregion and Australian Alps Bioregion(953: Very high)

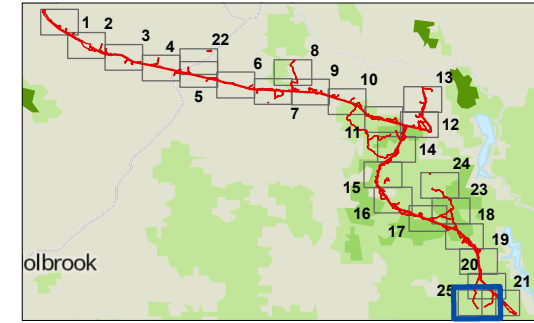
 1196 - Snow Gum - Mountain Gum shrubby open forest of montane areas, South Eastern Highlands Bioregion and Australian Alps Bioregion(1196: High)

 1196 - Snow Gum - Mountain Gum shrubby open forest of montane areas, South Eastern Highlands Bioregion and Australian Alps Bioregion(1196: Low)

 1224 - Sub-alpine dry grasslands and heathlands of valley slopes, southern South Eastern Highlands Bioregion and Australian Alps Bioregion(1224: High)

 9996 - Non-native (Roads)

 9997 - Non-native (Waterbodies)



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DRAWN:	NW	Vegetation
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Datum: GDA2020 Projection MGA Zone 55
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Legend

 HLW Area

Flora species polygon

 Assumed present

 SAIL

Species polygon by name

 *Acacia ausfeldii*, *Swainsona sericea*

 *Ammobium craspedioides*

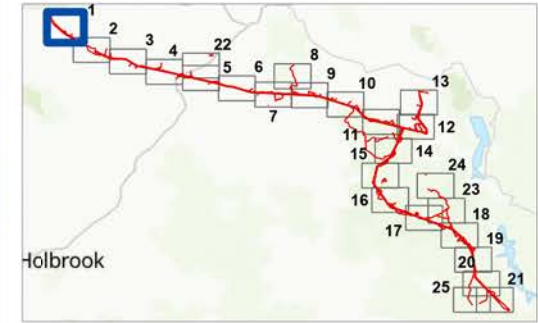
 *Grevillea wilkinsonii*

 *Prasophyllum petilum*

 *Pultenaea humilis*

 *Senecio garlandii*

 *Swainsona recta*



City: RoadSegment: Towns:		Threatened flora, and flora species polygons Page 1 of 25
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Datum: GDA2020 Projection MGA Zone 55

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Legend

HLW Area

Flora species polygon

Assumed present

SAII

Species polygon by name

Acacia ausfeldii, *Swainsona sericea*

Ammobium craspedioides

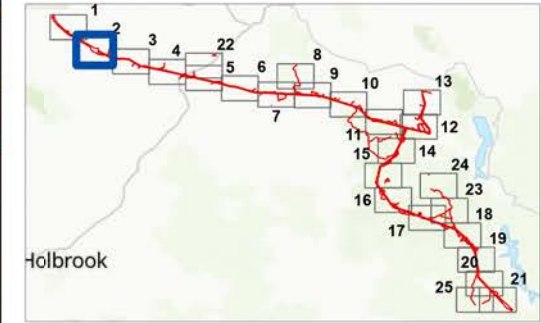
Grevillea wilkinsonii

Prasophyllum petilum

Pultenaea humilis

Senecio garlandii

Swainsona recta



City:	RoadSegment:
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DESCRIPTION:	Issued for Internal Review
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Threatened flora,
and flora species
polygons

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Transgrid

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Metres

Datum: GDA2020 Projection MGA Zone 55

Scale: 1:25,000 (when printed at A3)

Legend

HLW Area

Flora species polygon

Assumed present

SAII

Species polygon by name

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Ammobium craspedioides

Grevillea wilkinsonii

Prasophyllum petilum

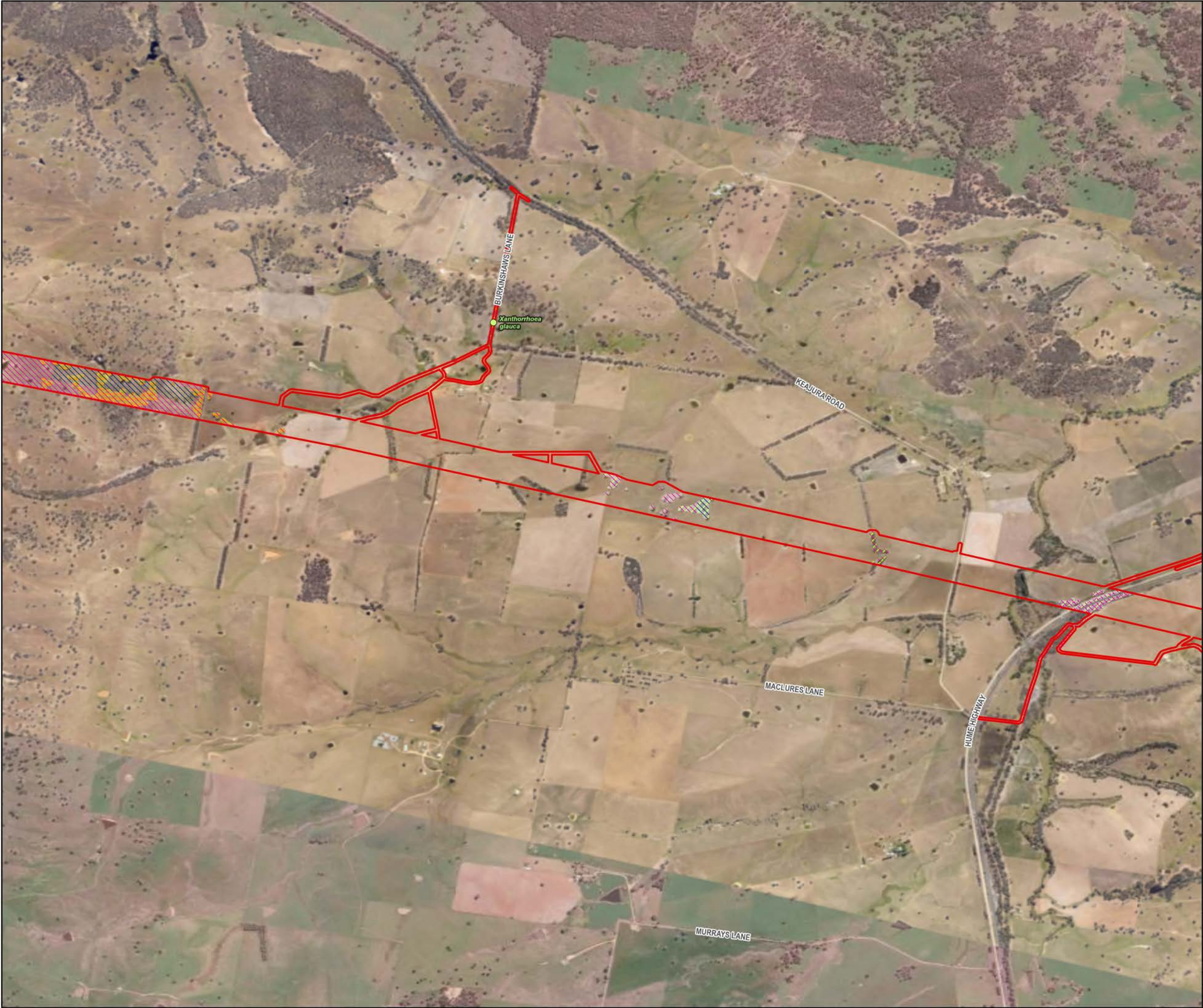
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Senecio garlandii

Swainsona recta

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Datum: GDA2020 Projection MGA Zone 55
Scale: 1:25,000 (when printed at A3)

Legend

 HLW Area

Flora species polygon

 Assumed present

Species polygon by name

 *Acacia ausfeldii*; *Swainsona sericea*

 *Ammobium craspedioides*

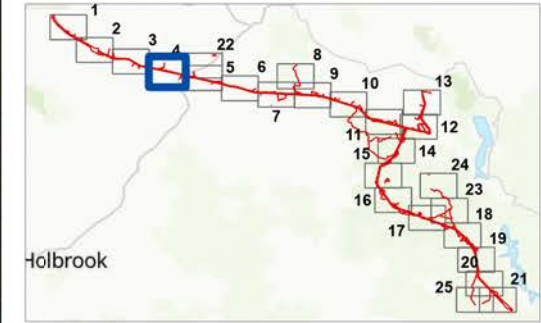
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 *Senecio garlandii*

 *Swainsona recta*

 Non-threatened Flora (Bionet)



City: RoadSegment: Towns:		Threatened flora, and flora species polygons Page 4 of 25
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Metres

Datum: GDA2020 Projection MGA Zone 55

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Legend

 HLW Area

Flora species polygon

 Assumed present

 SAll

Species polygon by name

 *Acacia ausfeldii*, *Swainsona sericea*

 *Ammobium craspedioides*

 *Bossiaea fragrans*

 *Caladenia concolor*

 *Cullen parvum*

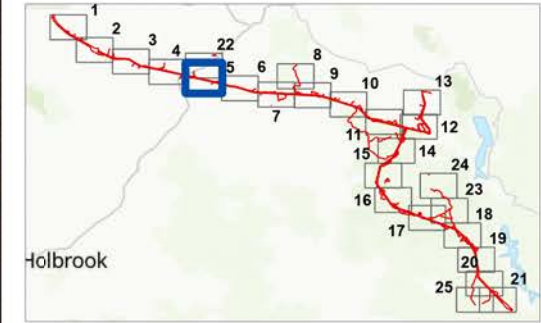
 *Leucochrysum albicans* subsp *tricolor*, *Caladenia montana*

 *Prasophyllum petilum*

 *Pultenaea humilis*

 *Senecio garlandii*

 *Swainsona recta*



City: RoadSegment: Towns:		Threatened flora, and flora species polygons
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Metres

Datum: GDA2020 Projection MGA Zone 55

Scale: 1:25,000 (when printed at A3)

Legend

 HLW Area

Flora species polygon

 Assumed present

 SAIL

Species polygon by name

 *Acacia ausfeldii*, *Swainsona sericea*

 *Ammobium craspedioides*

 *Bossiaea fragrans*

 *Caladenia concolor*

 *Cullen parvum*

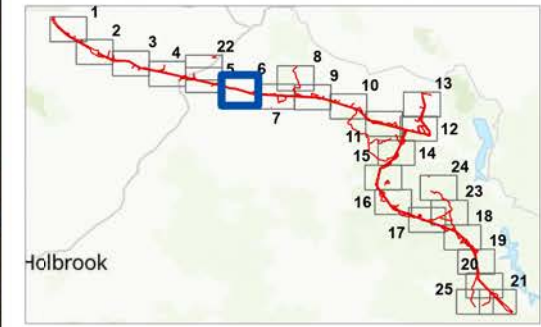
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 *Leucochrysum albicans* subsp *tricolor*, *Caladenia montana*

 *Prasophyllum petilum*

 *Pultenaea humilis*

 *Swainsona recta*



City: World Imagery: Earthstar Geographics	
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Threatened flora,
and flora species
polygons

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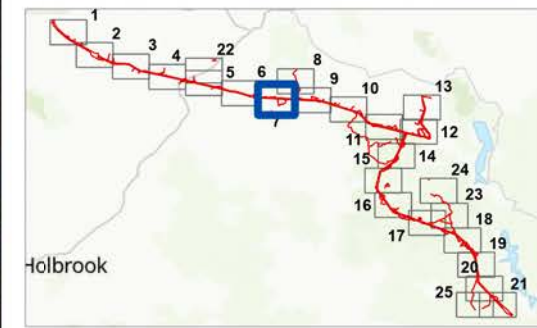
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- Legend
- HLW Area
 - Flora species polygon
 - Assumed present
 - SAII
 - Species polygon by name
 - Acacia ausfeldii*, *Swainsona sericea*
 - Ammobium craspedioides*
 - Bossiaea fragrans*
 - Caesia parviflora* var *minor*
 - Caladenia concolor*
 - Leucochrysum albicans* subsp *tricolor*, *Caladenia montana*
 - Prasophyllum petilum*
 - Pultenaea humilis*
 - Senecio garlandii*
 - Swainsona recta*



City:
World Imagery: Earthstar Geographics
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Threatened flora,
and flora species
polygons

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Metres

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HLW Area

Flora species polygon

Assumed present

SAIL

Species polygon by name

Acacia ausfeldii, *Swainsona sericea*

Ammobium craspedioides

Caesia parviflora var *minor*

Caladenia concolor

Pultenaea humilis

Senecio garlandii

City: World Imagery: Earthstar Geographics RoadSegment:		Threatened flora, and flora species polygons Page 8 of 25
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Scale: 1:25,000 (when printed at A3)

Legend

HLW Area

Flora species polygon

Assumed present

SAII

Species polygon by name

Acacia ausfeldii, *Swainsona sericea*

Ammobium craspedioides

Caesia parviflora var *minor*

Caladenia concolor

Persoonia marginata

Pultenaea humilis

Senecio garlandii

City:
World Imagery: Earthstar Geographics
RoadSegment:

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Threatened flora,
and flora species
polygons

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Metres

Datum: GDA2020 Projection MGA Zone 55
Scale: 1:25,000 (when printed at A3)

Legend

HLW Area

Flora species polygon

Assumed present

Species polygon by name

Acacia ausfeldii; Swainsona sericea

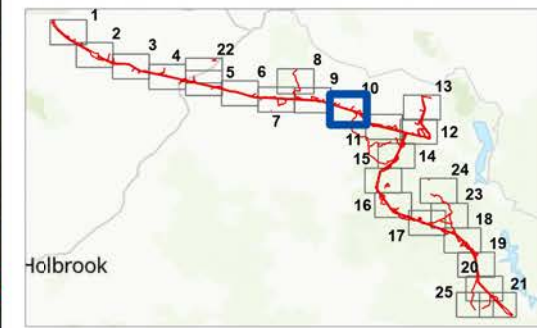
Ammobium craspedioides

Persoonia marginata

Pultenaea humilis

Senecio garlandii

Non-threatened Flora (Bionet)



City: World Imagery: Earthstar Geographics	
RoadSegment:	
DRAWN:	NW
REVIEWED:	PZ
VERIFIED:	CM
APPROVED:	
REV:	3
DATE:	18/07/2025
DESCRIPTION:	Issued for Internal Review
DRAWING NO:	HLW_3a ThFlora

Threatened flora,
and flora species
polygons

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Transgrid

UGL

CPB
CONTRACTORS

N

0.0250.0500.01,000.0

Metres

Datum: GDA2020 Projection MGA Zone 55

Scale: 1:25,000 (when printed at A3)

Legend

HLW Area

Flora species polygon

Assumed present

Species polygon by name

Acacia ausfeldii, *Swainsona sericea*

Ammobium craspedioides

Pultenaea humilis

Senecio garlandii



City: World Imagery: Earthstar Geographics RoadSegment:		
DRAWN:	NW	
REVIEWED:	PZ	
VERIFIED:	CM	
APPROVED:		
REV:	3	
DATE:	18/07/2025	
DESCRIPTION:	Issued for Internal Review	
DRAWING NO:	HLW_3a ThFlora	

Threatened flora,
and flora species
polygons

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Transgrid

UGL

CPB

CONTRACTORS

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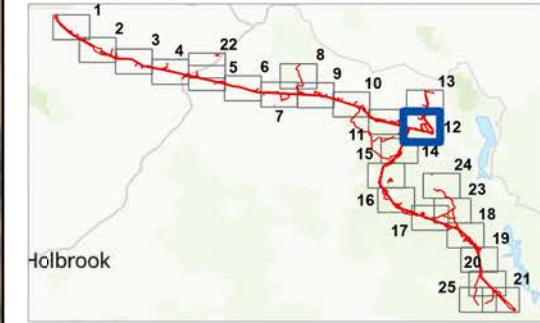
0.0 250.0 500.0 1,000.0

Metres

Datum: GDA2020 Projection MGA Zone 55

Scale: 1:25,000 (when printed at A3)

- Legend
- HLW Area
 - Flora species polygon
 - Assumed present
 - Species polygon by name
 - Ammobium craspedioides*
 - Leucochrysum albicans subsp. tricolor*, *Caladenia montana*
 - Persoonia marginata*
 - Pomaderris cotoneaster*
 - Pultenaea humilis*
 - Senecio garlandii*
 - Swainsona recta*
 - Non-threatened Flora (Bionet)



City: World Imagery: Earthstar Geographics	
RoadSegment:	
DRAWN:	NW
REVIEWED:	PZ
VERIFIED:	CM
APPROVED:	
REV:	3
DATE:	18/07/2025
DESCRIPTION:	Issued for Internal Review
DRAWING NO:	HLW_3a ThFlora

Threatened flora,
and flora species
polygons

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Transgrid

UGL

CPB
CONTRACTORS

N

0.0 250.0 500.0 1,000.0

Metres

Datum: GDA2020 Projection MGA Zone 55
Scale: 1:25,000 (when printed at A3)

Legend

HLW Area

Flora species polygon

Assumed present

Species polygon by name

Acacia ausfeldii; Swainsona sericea

Ammobium craspedioides

Diuris tricolor

Leucochrysum albicans subsp tricolor; Caladenia montana

Prasophyllum petilum

Swainsona recta

Non-threatened Flora (Bionet)



City: World Imagery: Earthstar Geographics	
RoadSegment:	
DRAWN:	NW
REVIEWED:	PZ
VERIFIED:	CM
APPROVED:	
REV:	3
DATE:	18/07/2025
DESCRIPTION:	Issued for Internal Review
DRAWING NO:	HLW_3a ThFlora

Threatened flora,
and flora species
polygons

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Transgrid

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0.0250.0500.01,000.0

Metres

Datum: GDA2020 Projection MGA Zone 55

Scale: 1:25,000 (when printed at A3)

Legend

 HLW Area

Flora species polygon

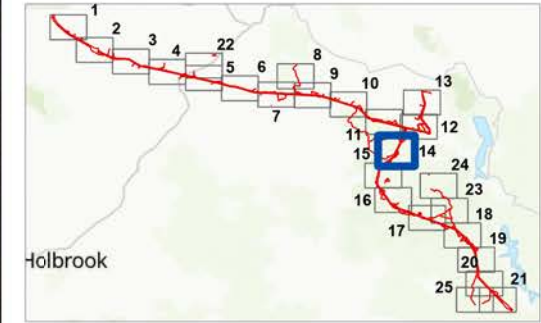
 Assumed present

 SAIL

Species polygon by name

 *Leucochrysum albicans subsp. tricolor*, *Caladenia montana*

 *Pimelea bracteata*



City: World Imagery: Earthstar Geographics RoadSegment:		Threatened flora, and flora species polygons Page 14 of 25
DRAWN:	NW	
REVIEWED:	PZ	
VERIFIED:	CM	
APPROVED:		
REV:	3	
DATE:	18/07/2025	
DESCRIPTION:	Issued for Internal Review	
DRAWING NO:	HLW_3a ThFlora	



Transgrid

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Metres

Datum: GDA2020 Projection MGA Zone 55

Scale: 1:25,000 (when printed at A3)

Legend

HLW Area

Flora species polygon

Assumed present

SAIL

Species polygon by name

Leucochrysum albicans subsp *tricolor*, *Caladenia montana*

Pimelea bracteata

Pomaderris cotoneaster



City: World Imagery: Earthstar Geographics	
RoadSegment:	
DRAWN:	NW
REVIEWED:	PZ
VERIFIED:	CM
APPROVED:	
REV:	3
DATE:	18/07/2025
DESCRIPTION:	Issued for Internal Review
DRAWING NO:	HLW_3a ThFlora

Threatened flora,
and flora species
polygons

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Transgrid



N

0.0250.0500.01,000.0

Metres

Datum: GDA2020 Projection MGA Zone 55

Scale: 1:25,000 (when printed at A3)

- Legend
- HLW Area

Flora species polygon

Assumed present

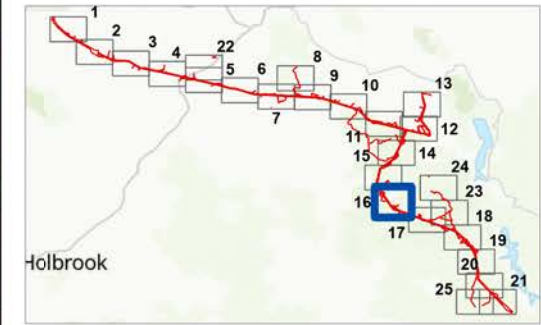
Species polygon by name

Leucochrysum albicans subsp tricolor; *Caladenia montana*

Pomaderris cotoneaster

Threatened flora (Bionet)

Non-threatened Flora (Bionet)



City: World Imagery: Earthstar Geographics

RoadSegment:

DRAWN:	NW
REVIEWED:	PZ
VERIFIED:	CM
APPROVED:	
REV:	3
DATE:	18/07/2025
DESCRIPTION:	Issued for Internal Review
DRAWING NO:	HLW_3a ThFlora

Threatened flora,
and flora species
polygons

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Transgrid



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Metres

Datum: GDA2020 Projection MGA Zone 55

Scale: 1:25,000 (when printed at A3)

Legend

HLW Area

Flora species polygon

Assumed present

SAII

Species polygon by name

Leucochrysum albicans subsp tricolor; Caladenia montana

Pimelea bracteata

Prasophyllum bagoense; Prasophyllum keltonii; Glycine latrobeana

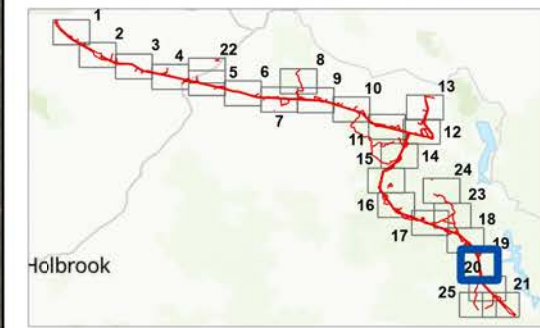
Pterostylis oreophila

Thelymitra alpicola

Thesium australe; Xerochrysum palustre; Pterostylis alpina; Pterostylis foliata; Calotis glandulosa

Threatened flora (Bionet)

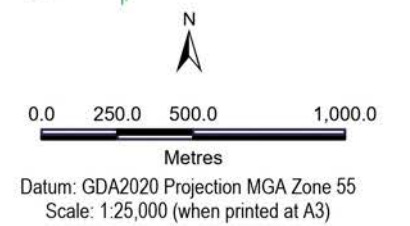
Non-threatened Flora (Bionet)



City: World Imagery: Earthstar Geographics	
RoadSegment:	
DRAWN:	NW
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VERIFIED:	CM
APPROVED:	
REV:	3
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DESCRIPTION:	Issued for Internal Review
DRAWING NO:	HLW_3a ThFlora

Threatened flora, and flora species polygons

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Legend

-  HLW Area

Flora species polygon

 Assumed present

 Known habitat

 SAI

Species polygon by name

 *Ammobium craspedioides*

 *Carex raleighii*

 *Euphrasia scabra*

 *Leucochrysum albicans subsp. tricolor*; *Caladenia montana*

 *Pimelea bracteata*

 *Prasophyllum bagoense*; *Prasophyllum keltonii*; *Glycine latrobeana*

 *Prasophyllum innubum*; *Diuris ochroma*; *Calotis pubescens*

 *Pterostylis oreophila*

 *Rutidosia leirolepis*

 *Rytidosperma vickeryae*

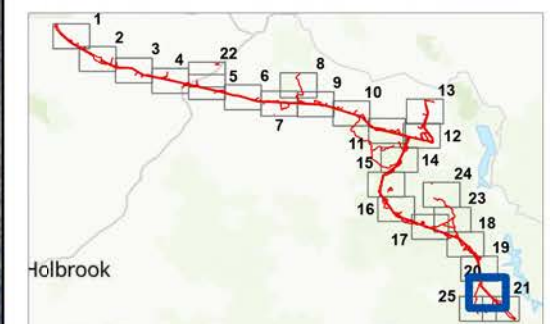
 *Thelymitra alpicola*

 *Thesium australe*; *Xerochrysum palustre*; *Pterostylis alpina*; *Pterostylis foliata*; *Calotis glandulosa*

 Threatened Flora (Niche)

 Threatened flora (Bionet)

 Non-threatened Flora (Bionet)

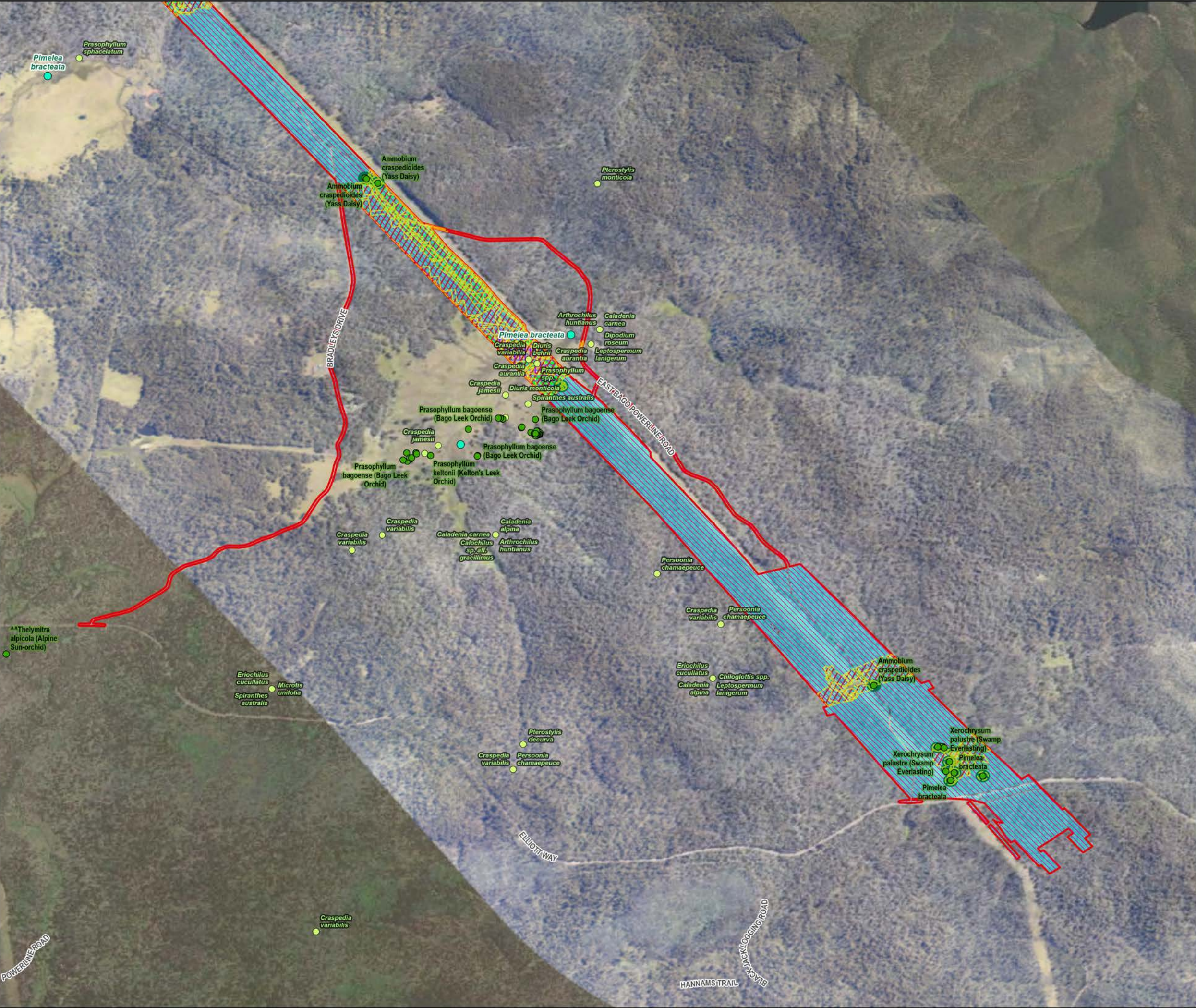


City:
World Imagery: Earthstar Geographics
RoadSegment:

DRAWN:	NW
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REV:	3
DATE:	18/07/2025
DESCRIPTION:	Issued for Internal Review
DRAWING NO:	HLW_3a_ThFlora

Threatened flora,
and flora species
polygons

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Transgrid

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CONTRACTORS

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Metres

Datum: GDA2020 Projection MGA Zone 55

Scale: 1:25,000 (when printed at A3)

- Legend
- HLW Area
- Flora species polygon**
- Assumed present
 - Known habitat
 - SAIL
- Species polygon by name**
- Ammobium craspedioides*
 - Carex raleighii*
 - Euphrasia scabra*
 - Leucochrysum albicans* subsp. *tricolor*; *Caladenia montana*
 - Pimelea bracteata*
 - Prasophyllum bagoense*; *Prasophyllum keltonii*; *Glycine latrobeana*
 - Prasophyllum innubum*; *Diuris ochroma*; *Calotis pubescens*
 - Pterostylis oreophila*
 - Rutidosia leirolepis*
 - Rutidosperma vickeryae*
 - Thesium australe*; *Xerochrysum palustre*; *Pterostylis alpina*; *Pterostylis foliata*; *Calotis glandulosa*
- Threatened Flora (Niche)
- Threatened flora (Bionet)
- Non-threatened Flora (Bionet)



City: Holbrook

World Imagery: Earthstar Geographics

RoadSegment:

DRAWN:	NW
REVIEWED:	PZ
VERIFIED:	CM
APPROVED:	
REV:	3
DATE:	18/07/2025
DESCRIPTION:	Issued for Internal Review
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Threatened flora,
and flora species
polygons

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