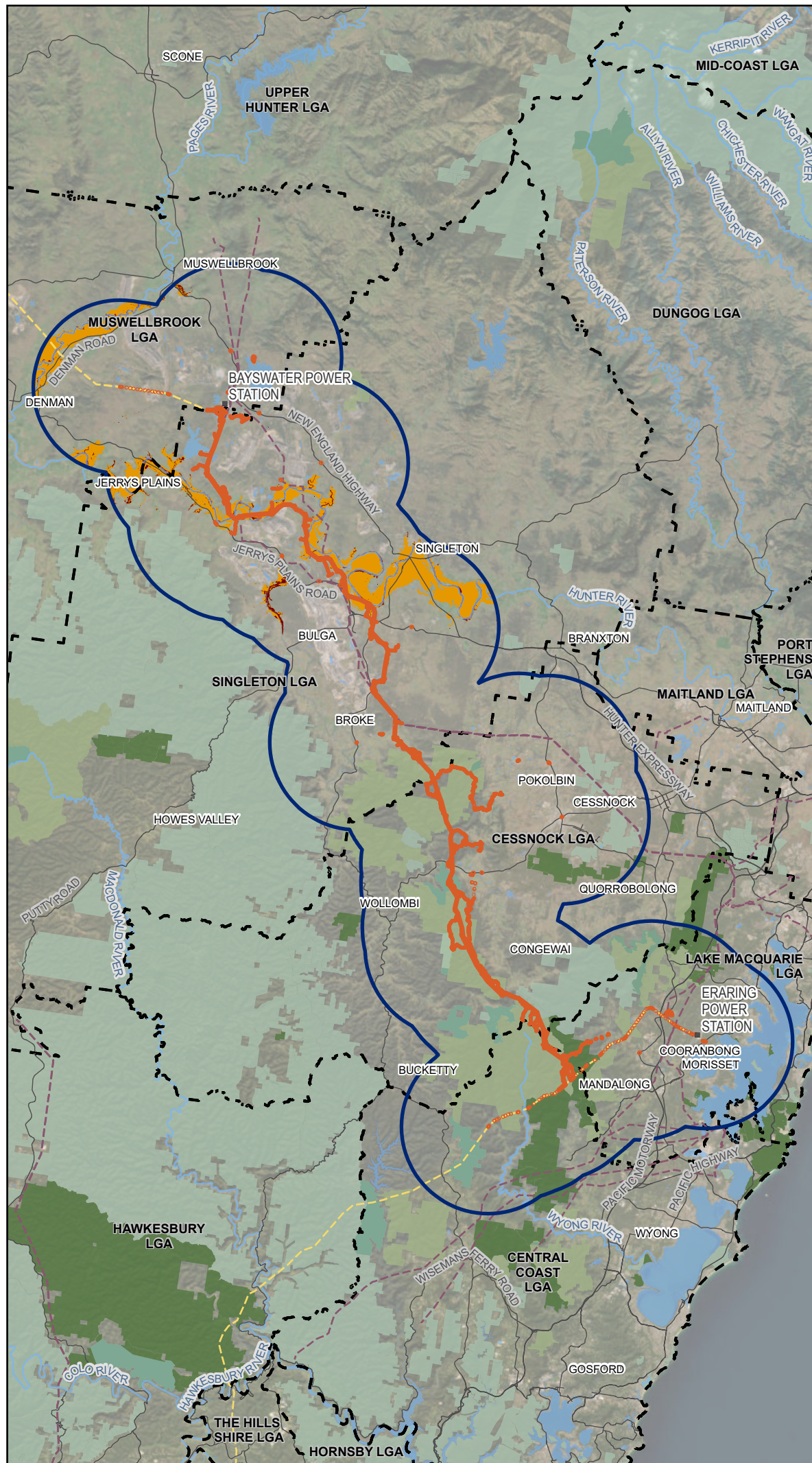
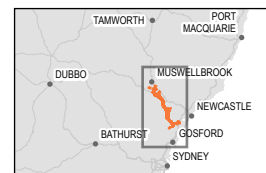


Figure 14.15a
Hunter Floodplain Red Gum Woodland
analysis



Legend

- Biodiversity study area
- 10km locality buffer
- Existing environment
- Road
- Power station
- - 330 kV transmission line
- - 500 kV transmission line
- River
- Waterbody
- NPWS reserve
- State conservation area
- Flora reserve
- State forest
- Local government area
- PCT4089 - Hunter Floodplain Red Gum Woodland
- SVTM NSW 1750 extent
- SVTM NSW current extent (release C2.0.M2.1) Nov 24



0 5 10
Kilometres

Coordinate system: GDA2020 MGA Zone 56
Scale ratio correct when printed at A4

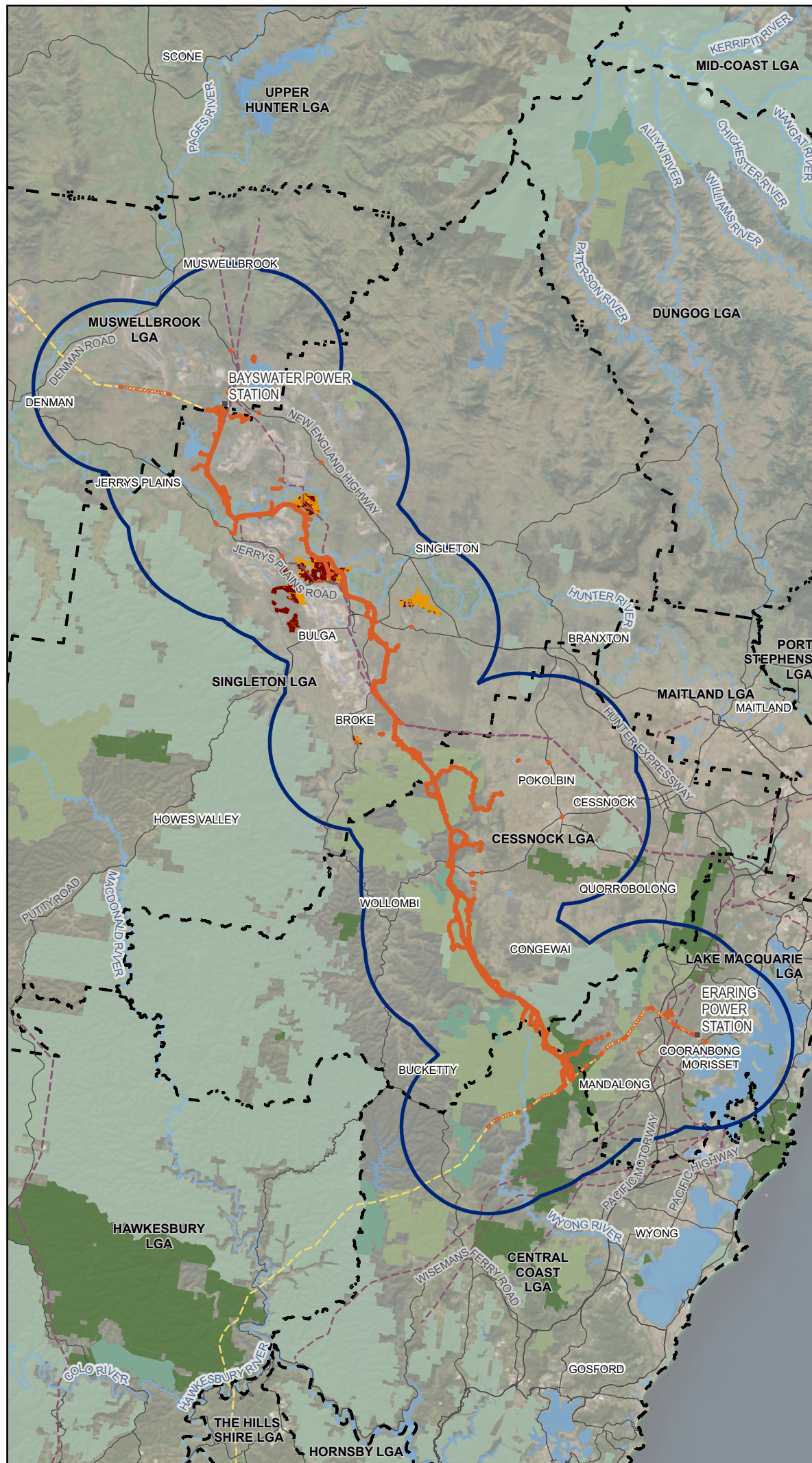


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Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
World Imagery: Earthstar Geographics

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Figure 14.15b
Warkworth Sands Woodland analysis



Legend

- Biodiversity study area
- 10km locality buffer
- Existing environment
- Road
- Power station
- - - 330 kV transmission line
- - - 500 kV transmission line
- River
- Waterbody
- NPWS reserve
- State conservation area
- Flora reserve
- State forest
- Local government area
- PCT3636 - Warkworth Sands Woodland
- SVTM NSW 1750 extent
- SVTM NSW current extent (release C2.0.M2.1) Nov 24



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Kilometres

Coordinate system: GDA2020 MGA Zone 56
Scale ratio correct when printed at A4

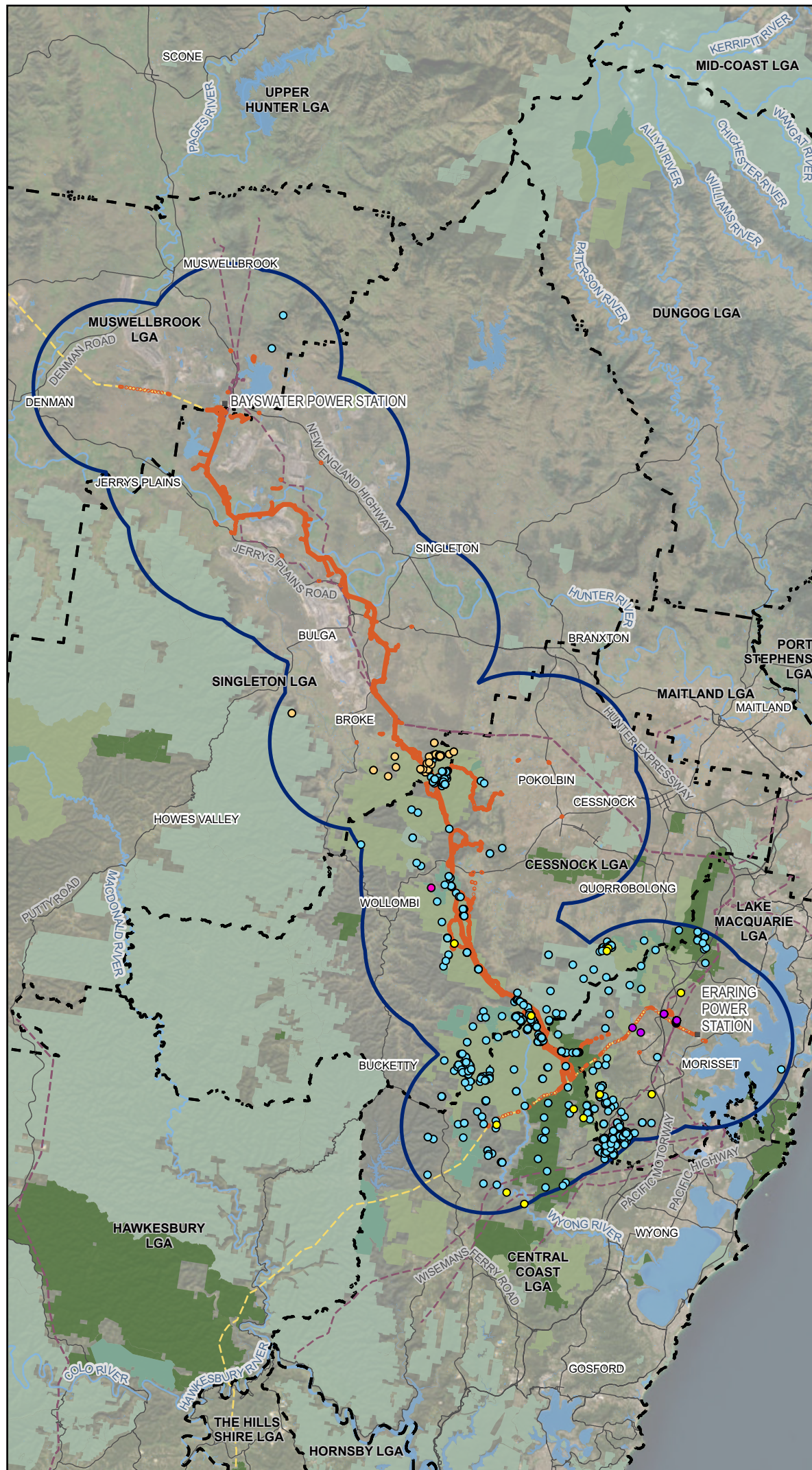


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Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
World Imagery: Earthstar Geographics

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Figure 14.15c
Current occurrence of SAIL flora



Legend

- Biodiversity study area
- 10km locality buffer
- Existing environment
- Road
- Power station
- - 330 kV transmission line
- - 500 kV transmission line
- River
- Waterbody
- NPWS reserve
- State conservation area
- Flora reserve
- State forest
- Local government area
- Current occurrence of SAIL flora
- *Commersonia rosea*
- *Eucalyptus fracta*
- *Genoplesium insigne*
- *Rhodamnia rubescens*
- *Rhodomyrtus psidioides*



0 5 10
Kilometres

Coordinate system: GDA2020 MGA Zone 56
Scale ratio correct when printed at A4

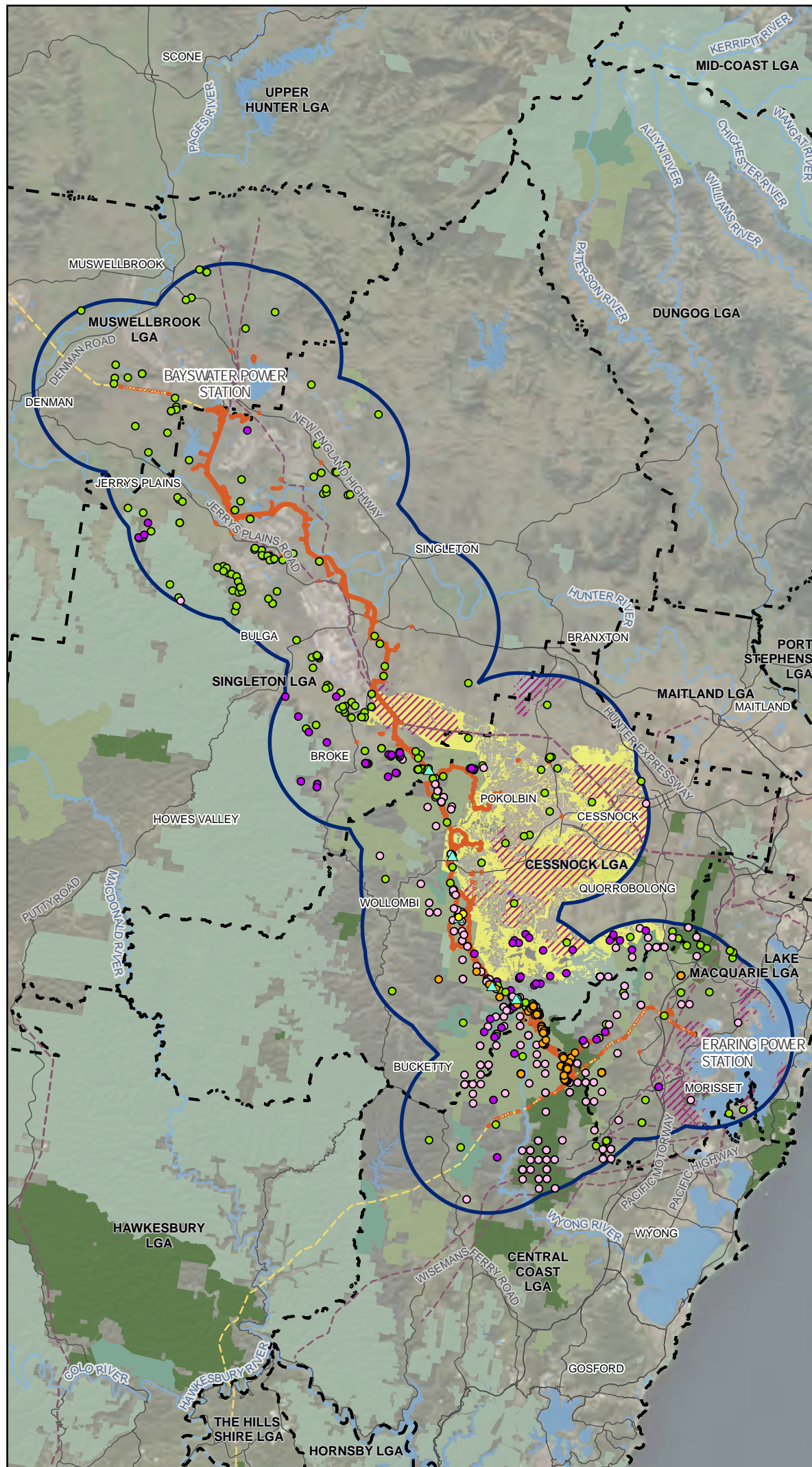


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Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
World Imagery: Earthstar Geographics

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Figure 14.15d
Current occurrence of SAIL fauna



Legend

- Biodiversity study area
- 10km locality buffer
- Existing environment
- Road
- ⌋ Power station
- - - 330 kV transmission line
- - - 500 kV transmission line
- River
- Waterbody
- NPWS reserve
- State conservation area
- Flora reserve
- State forest
- ⌋ Local government area
- Current occurrence of SAIL fauna
- Brush-tailed Rock-wallaby
- Large-eared Pied Bat
- Sooty Owl
- Stuttering Frog
- Likely Sooty Owl cave
- Sooty Owl cave
- ▲ Large-eared Pied Bat breeding site
- Current occurrence of important mapped habitat
- ▨ Swift Parrot
- ▨ Regent Honeyeater



0 5 10
Kilometres

Coordinate system: GDA2020 MGA Zone 56
Scale ratio correct when printed at A4



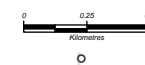
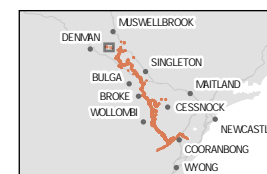
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World Imagery: Earthstar Geographics

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- - - 500 kV transmission line
- Named watercourse
- Waterbody
- Local government area
- Offset not required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

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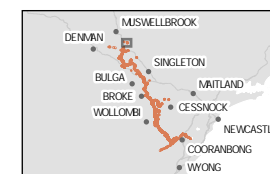
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State Government, WSP
World Imagery: Maxar

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- Local government area
- Offset not required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



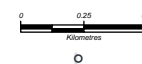
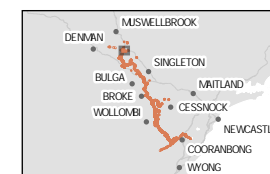
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Data sources: EMM, Beca, Geoscience Australia, NSW
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World Imagery: Maxar

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- ⌋ Power station
- - - 330 kV transmission line
- - - 500 kV transmission line
- Named watercourse
- Waterbody
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



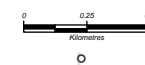
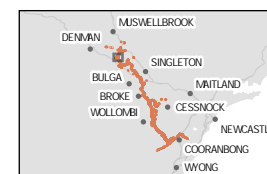
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

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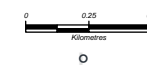
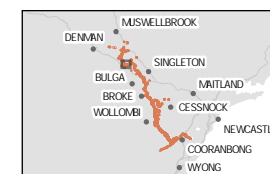
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

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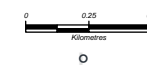
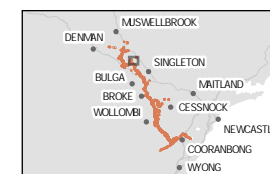
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Legend

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- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- Local government area
- Offset not required
- Offset required



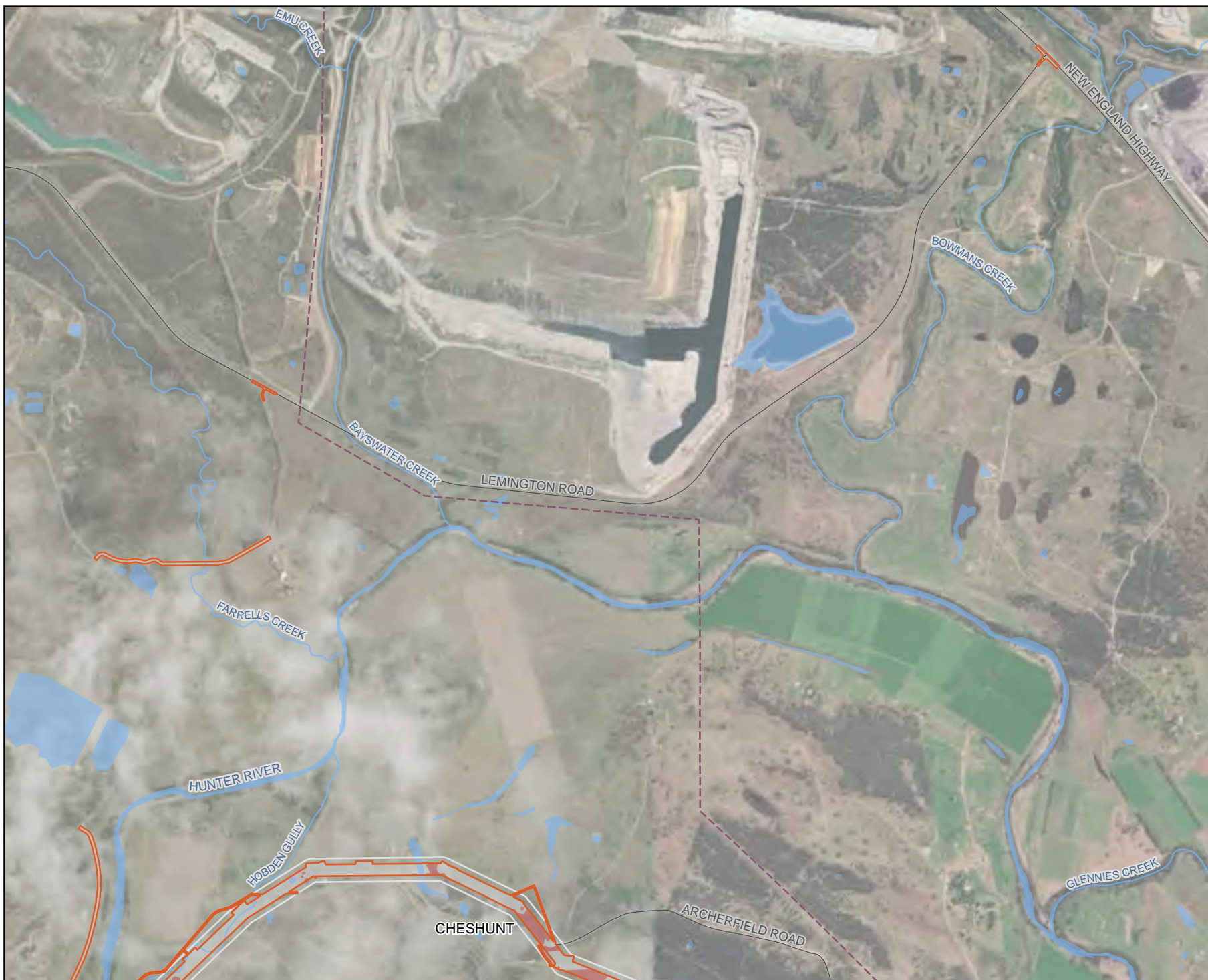
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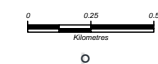
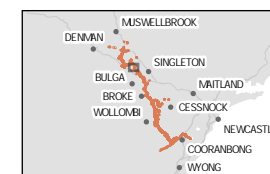
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State Government, WSP
World Imagery: Maxar

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- - - 330 kV transmission line
- Named watercourse
- Waterbody
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

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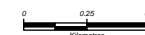
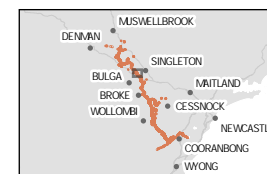
Data sources: EMM, Beca, Geoscience Australia, NSW
State Government, WSP
World Imagery: Maxar

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

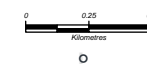
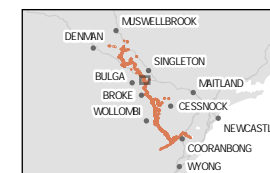
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

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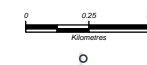
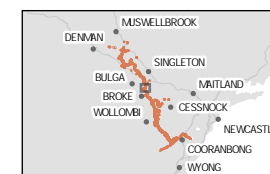
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

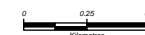
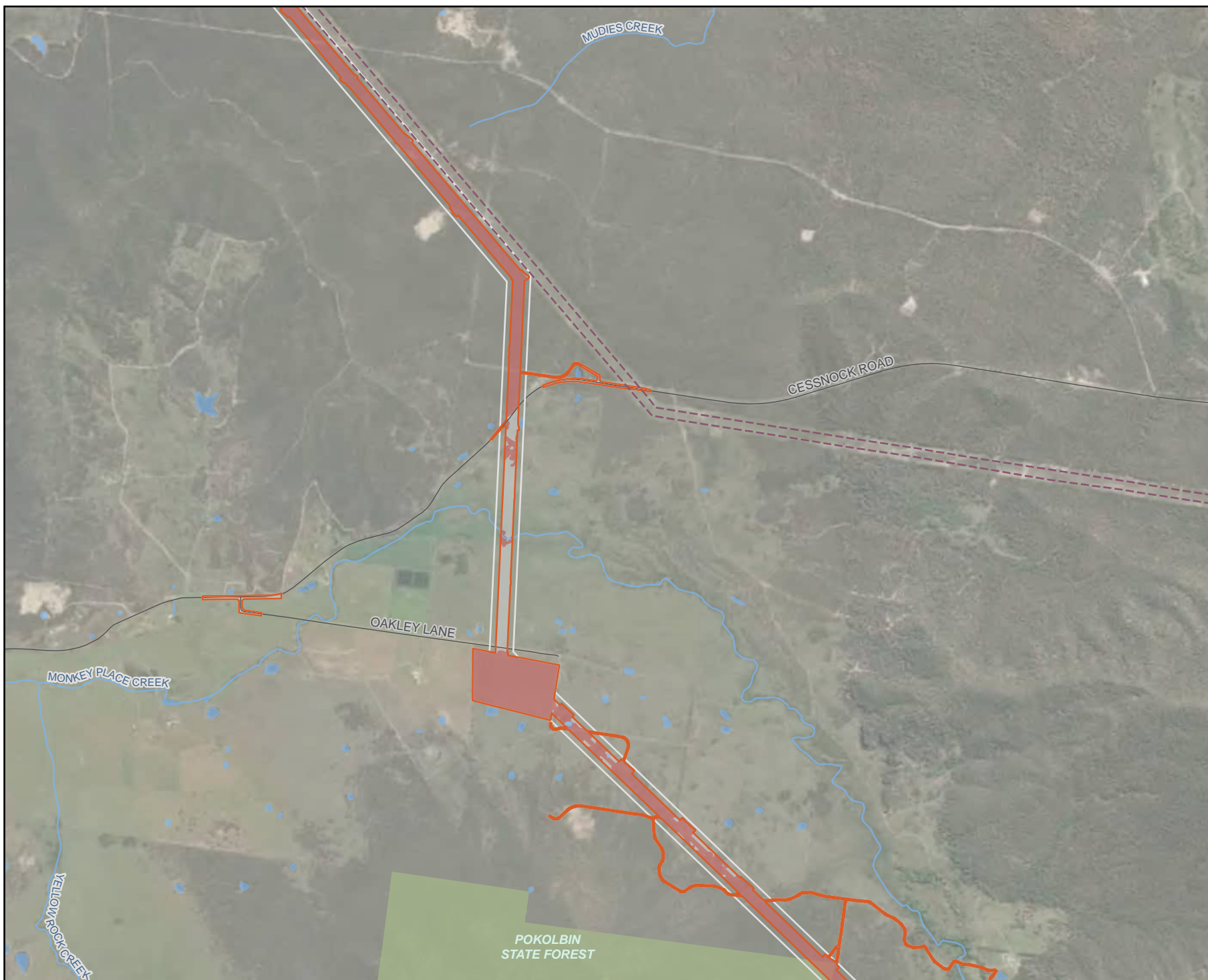
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Data sources: EMM, Beca, Geoscience Australia, NSW
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World Imagery: Maxar

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- - - 330 kV transmission line
- Named watercourse
- Waterbody
- State forest
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



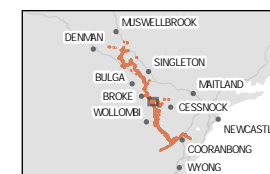
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- State forest
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

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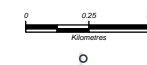
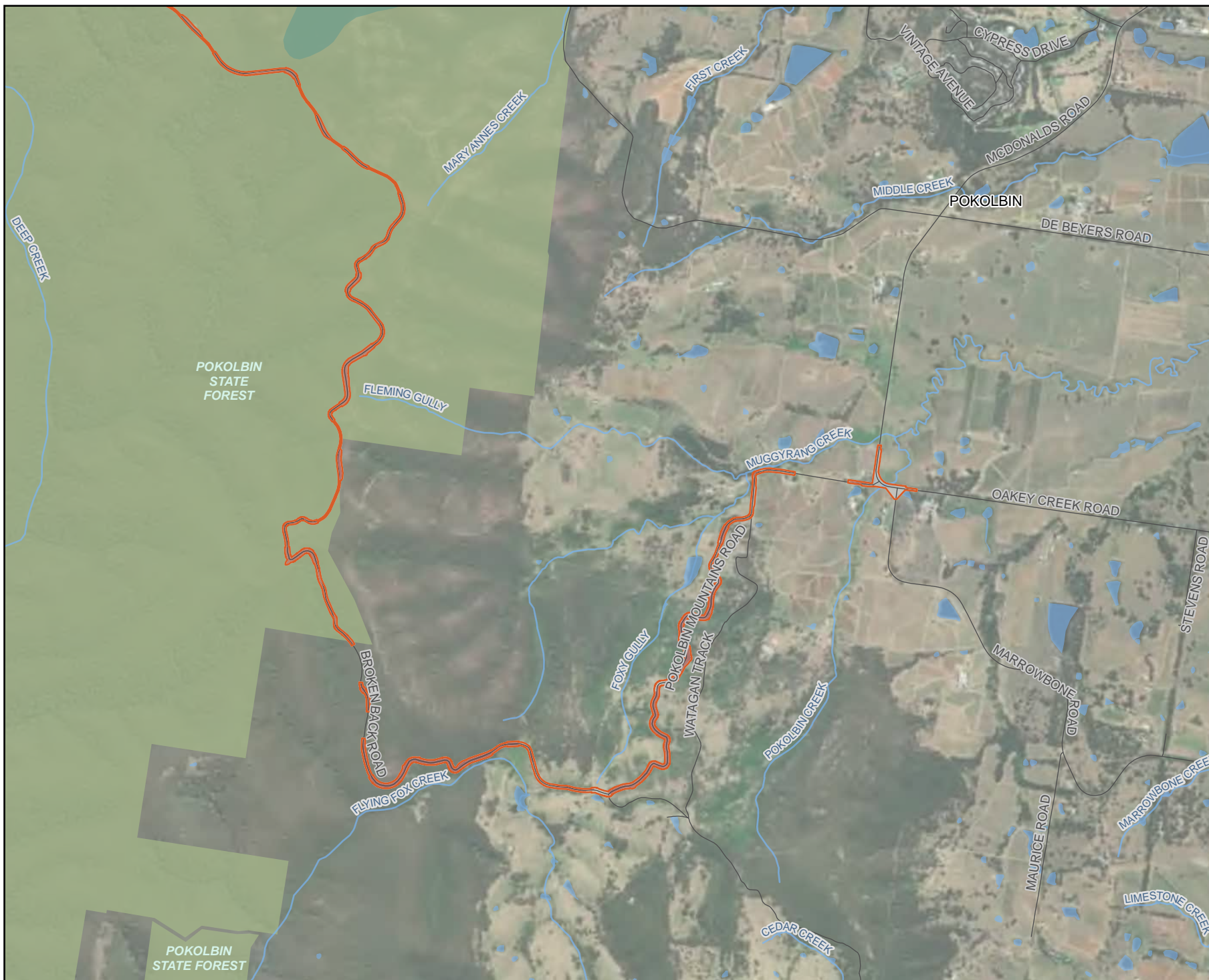
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World Imagery: Maxar

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- Flora reserve
- State forest
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

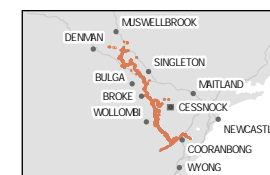
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- Local government area
- Offset not required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

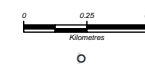
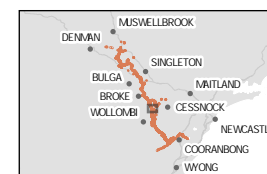
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- State forest
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



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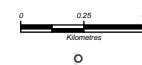
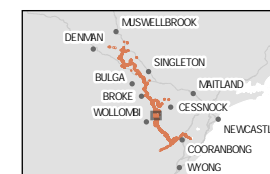
Data sources: EMM, Beca, Geoscience Australia, NSW
State Government, WSP
World Imagery: Maxar

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- Flora reserve
- State forest
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

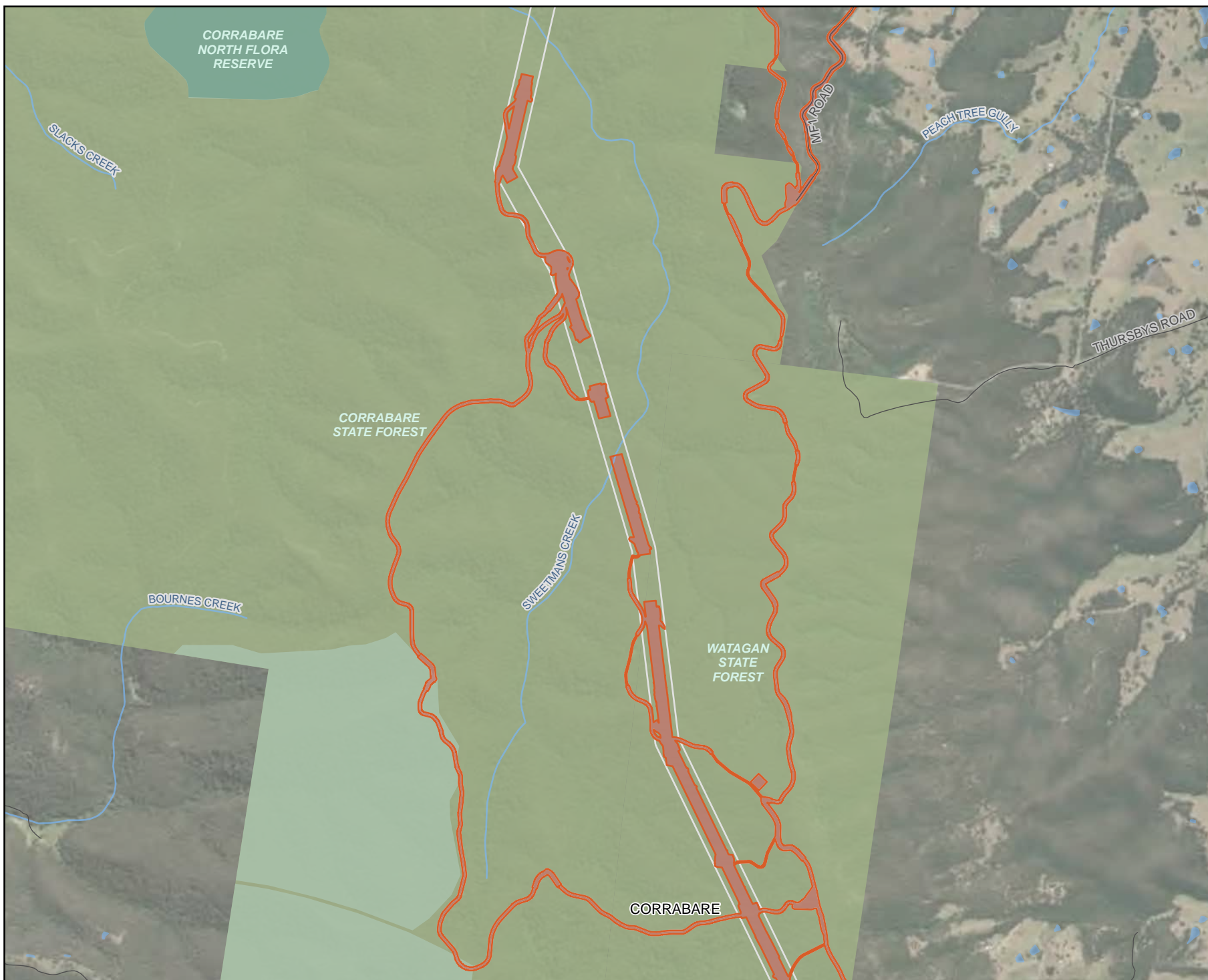
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Data sources: EMM, Beca, Geoscience Australia, NSW
State Government, WSP
World Imagery: Maxar

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- Flora reserve
- State forest
- Local government area
- Offset not required
- Offset required



0 0.25 0.5
Kilometres

Coordinate system: GDA2020 MGA Zone 56

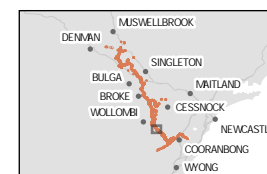
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Data sources: EMM, Beca, Geoscience Australia, NSW
State Government, WSP
World Imagery: Maxar

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- State forest
- Local government area
- Offset not required
- Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



1:30,000 Date: 15/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW
State Government, WSP
World Imagery: Maxar

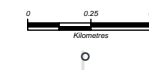
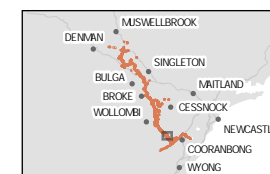
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Legend


- Biodiversity study area
 Subject land
 Existing environment
 — Road
 — Named watercourse
 Waterbody
 NPWS reserve
 State conservation area
 Flora reserve
 State forest
 Local government area
 Offset not required
 Offset required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

Scale ratio correct when printed at A4

 1:30,000 Date: 15/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW
State Government, WSP
World Imagery: Maxar

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- - - 500 kV transmission line
- Named watercourse
- Waterbody
- NPWS reserve
- State conservation area
- State forest
- Local government area
- Offset not required
- Offset required

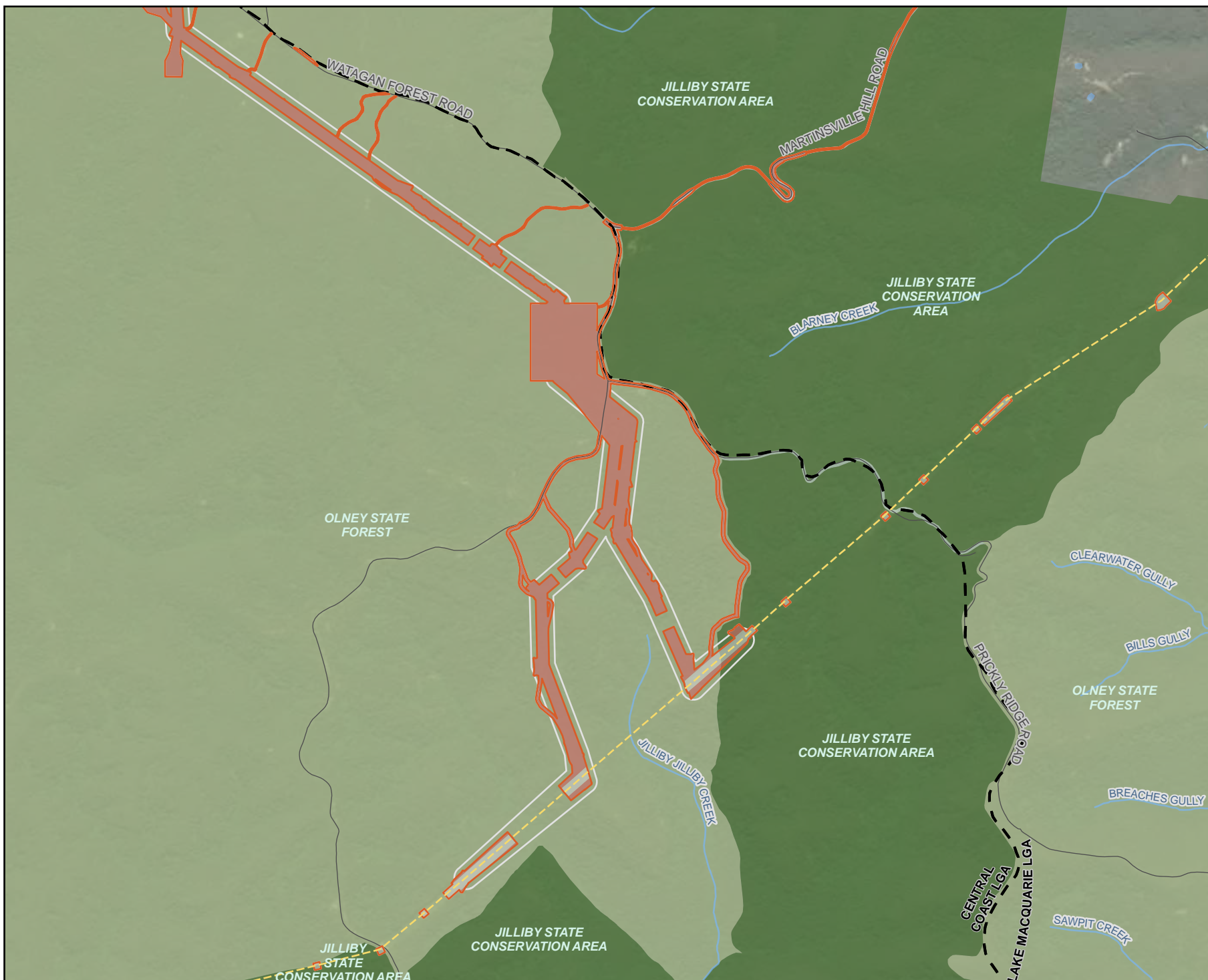


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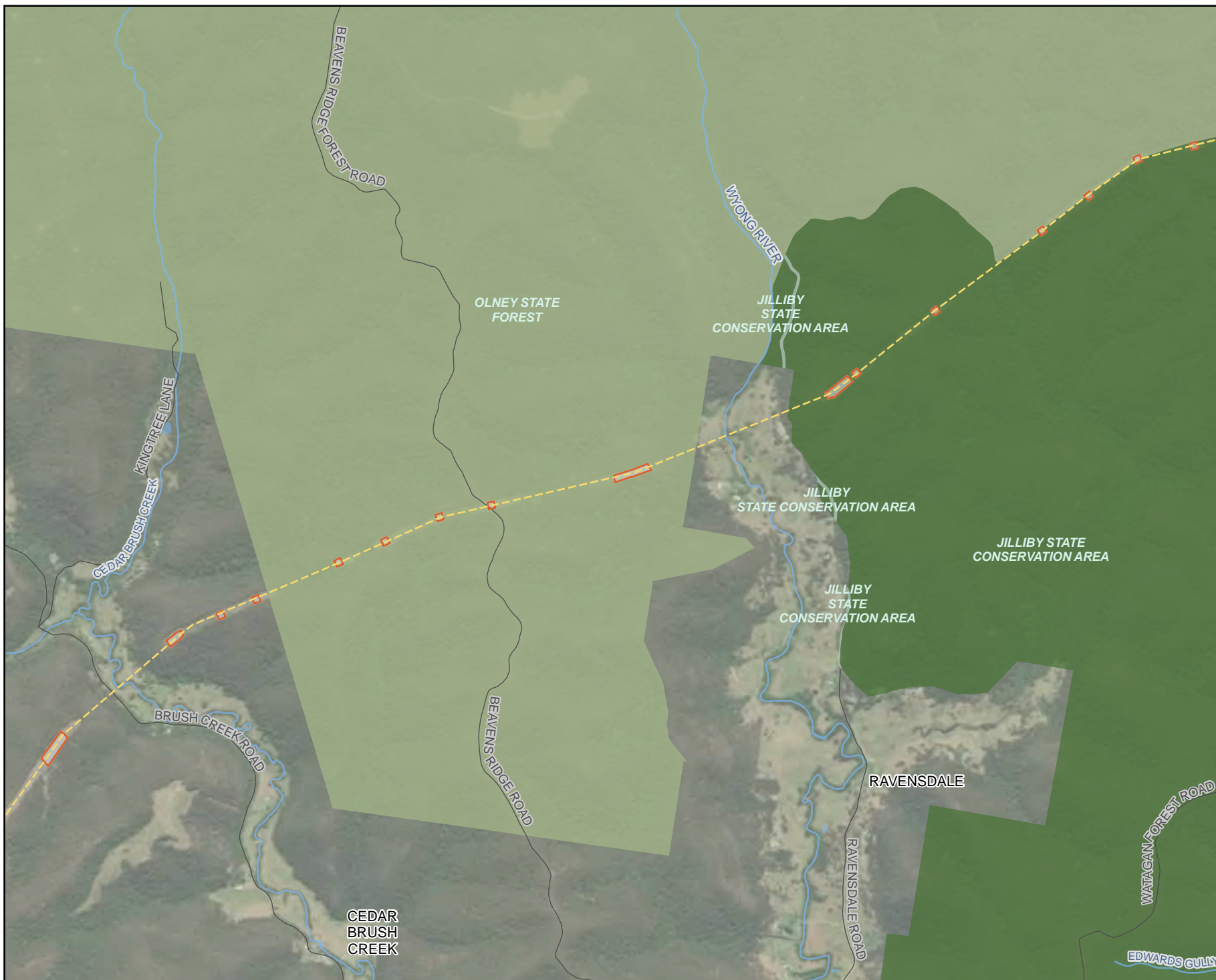
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World Imagery: Maxar

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 500 kV transmission line
- Named watercourse
- Waterbody
- NPWS reserve
- State conservation area
- State forest
- Local government area
- Offset not required



0 0.25 0.5
Kilometres

Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

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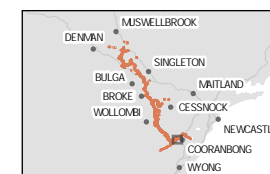
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 500 kV transmission line
- Named watercourse
- Waterbody
- NPWS reserve
- State conservation area
- State forest
- Local government area
- Offset not required
- Offset required



0 0.25 0.5
Kilometres

Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



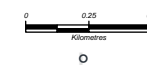
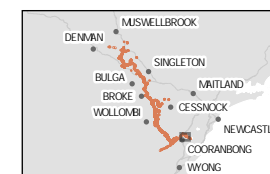
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- 500 kV transmission line
- Named watercourse
- Waterbody
- Flora reserve
- State forest
- Local government area
- Offset not required



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

1:30,000 Date: 15/07/2025

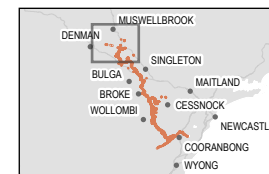
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Legend

- Biodiversity study area
- Local government area
- Terrestrial connectivity buffers
 - 1km buffer
 - 10km buffer
- Barriers
 - Road
 - Power station
 - Existing transmission line
 - Potential locations of vehicle strike
 - Brownfield areas of subject land
- Habitat features
 - Waterbody
 - Remnant vegetation (within 10km of subject land)
 - NPWS reserve
 - State forest
 - Broad movement corridor
 - Fauna connectivity locations
- Watercourses (Strahler stream order)
 - 6
 - 7
 - 9



Coordinate system: GDA2020 MGA Zone 56

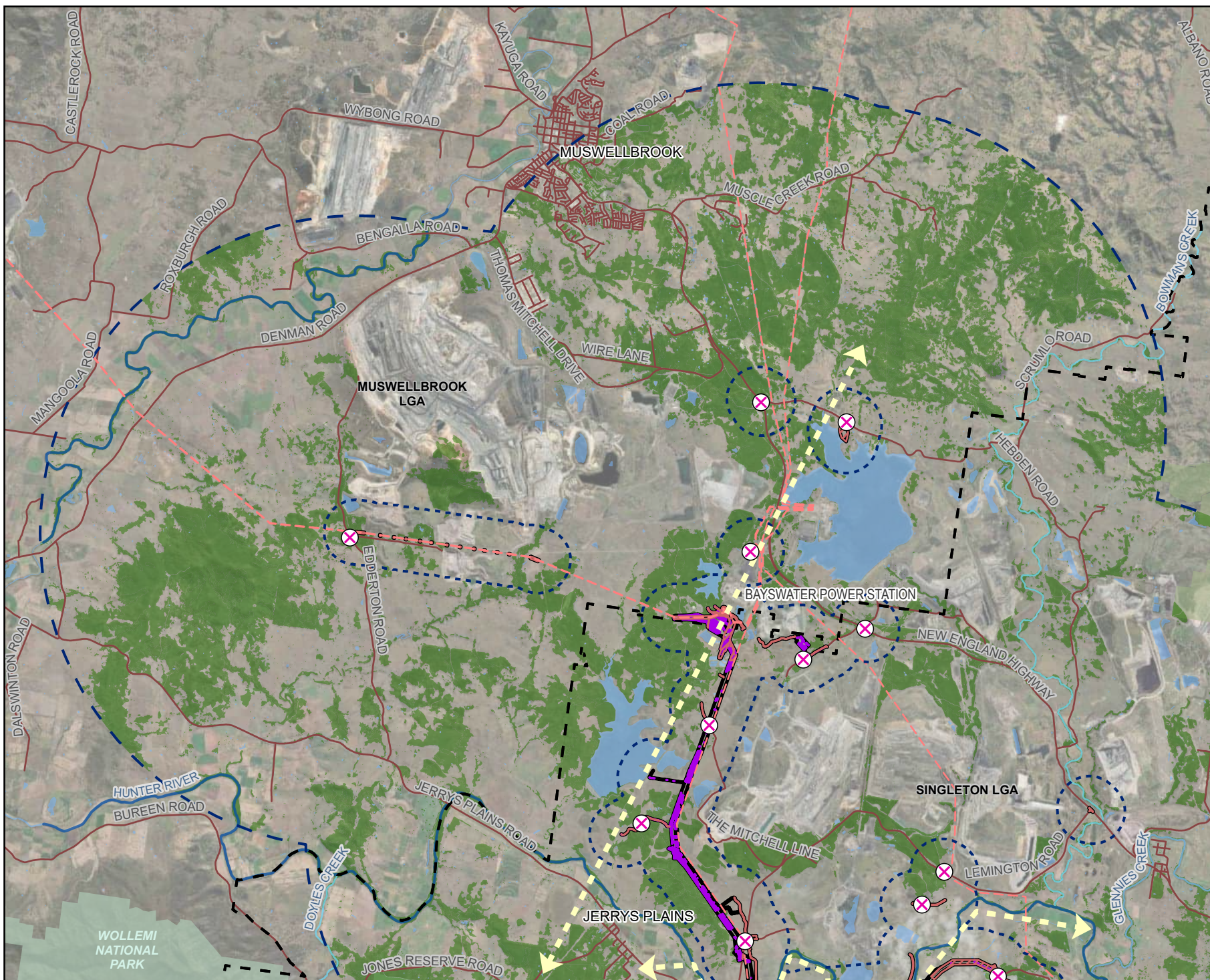
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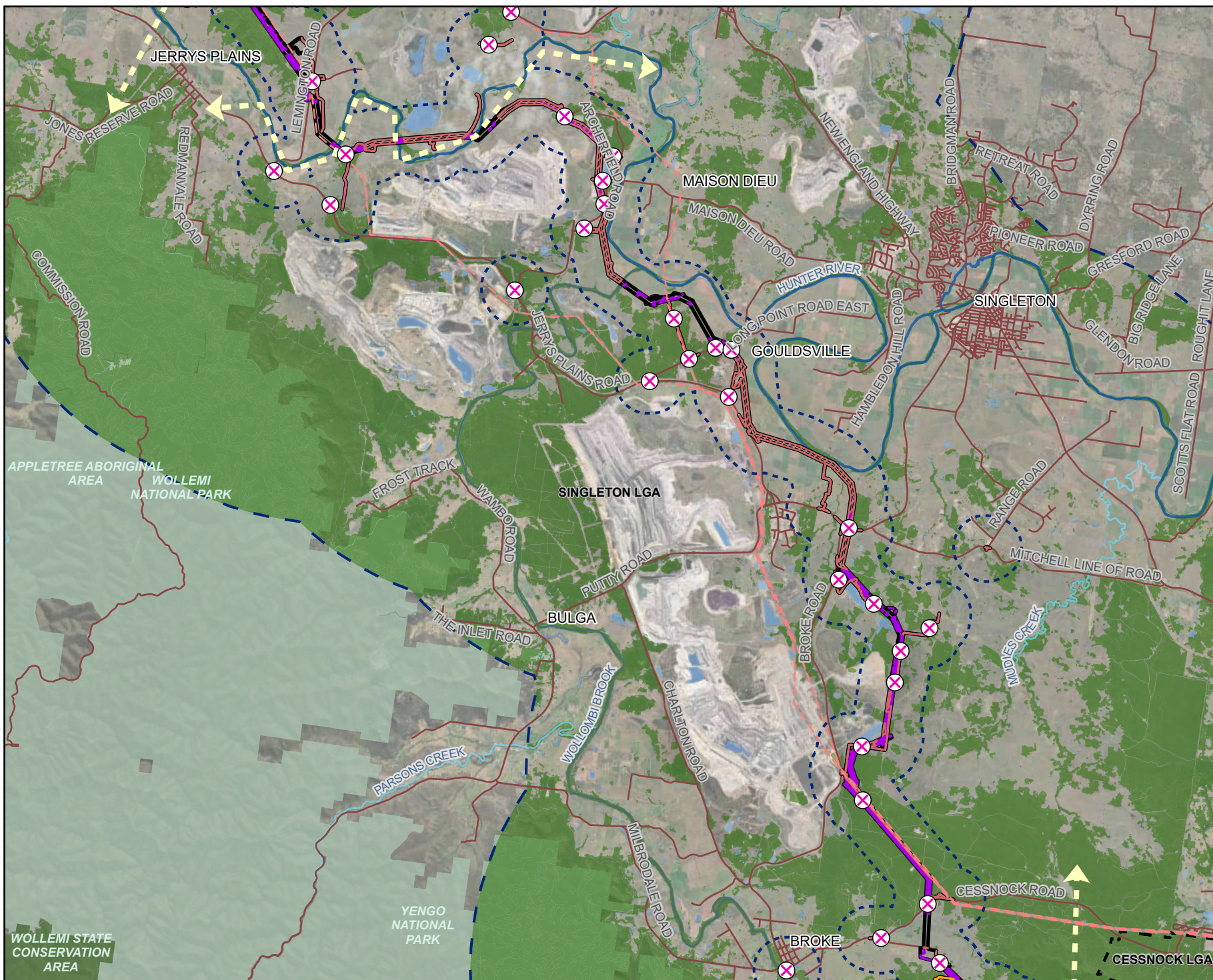


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Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
World Imagery: Earthstar Geographics

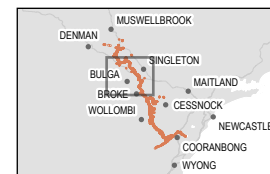
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Legend

- Biodiversity study area
- Local government area
- Terrestrial connectivity buffers
 - 1km buffer
 - 10km buffer
- Barriers
 - Road
 - Existing transmission line
- Potential locations of vehicle strike
- Brownfield areas of subject land
- Brownfield areas of subject land including potential locations of vehicle strike
- Habitat features
 - Waterbody
 - Cliff lines/escarpments
 - Remnant vegetation (within 10km of subject land)
 - NPWS reserve
 - State conservation area
 - State forest
 - Broad movement corridor
 - Fauna connectivity locations
- Watercourses (Strahler stream order)
 - 6
 - 7
 - 8
 - 9



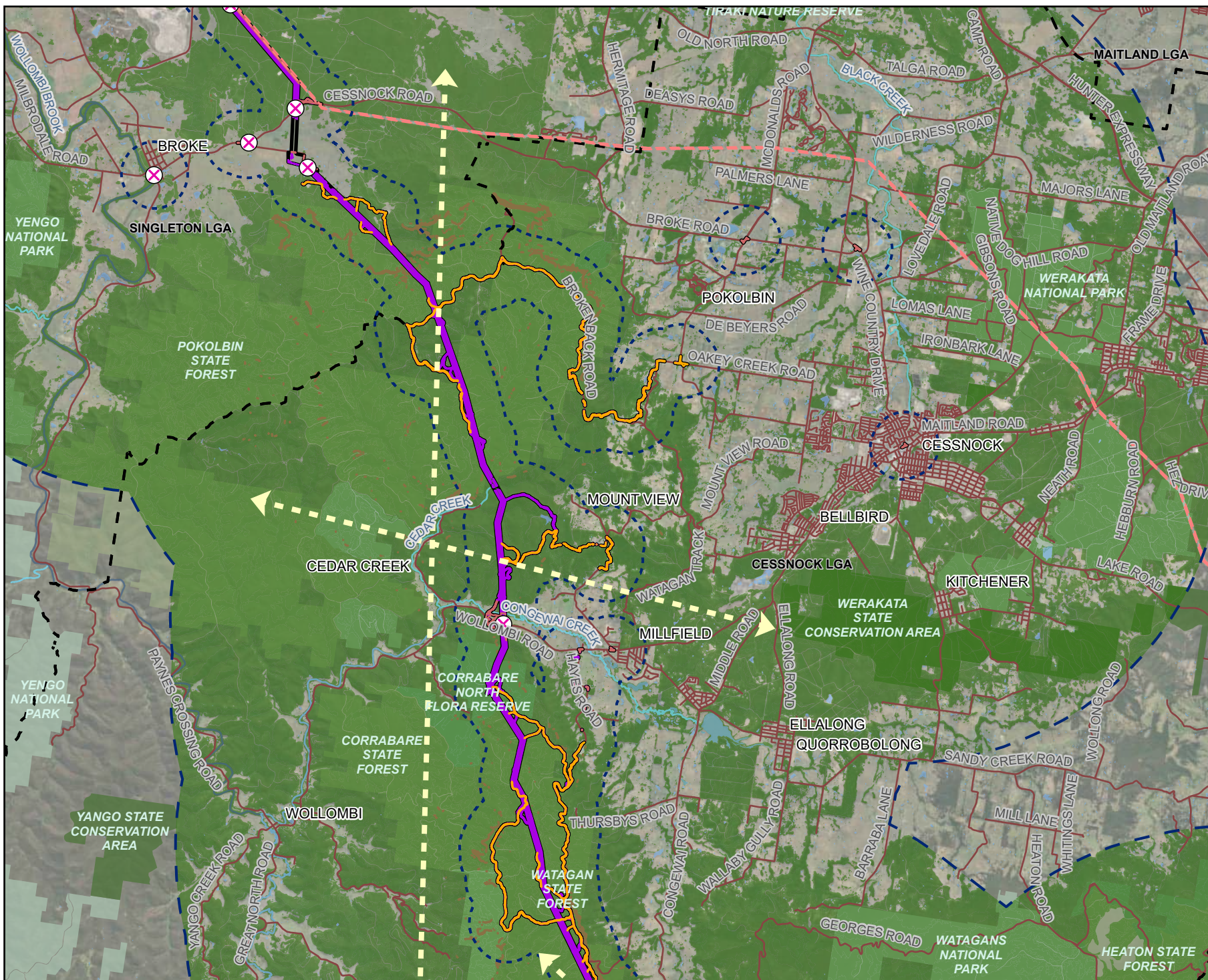
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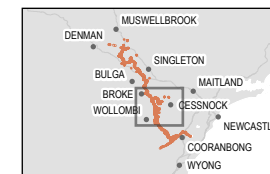
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World Imagery: Earthstar Geographics

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Legend

- Biodiversity study area
- Local government area
- Terrestrial connectivity buffers**
 - 1km buffer
 - 10km buffer
- Barriers**
 - Road
 - Existing transmission line
 - Potential locations of vehicle strike
 - Brownfield areas of subject land
 - Brownfield areas of subject land including potential locations of vehicle strike
- Habitat features**
 - Waterbody
 - Cliff lines/escarpments
 - Remnant vegetation (within 10km of subject land)
 - NPWS reserve
 - State conservation area
 - Flora reserve
 - State forest
 - Broad movement corridor
 - Fauna connectivity locations
- Watercourses (Strahler stream order)**
 - 6
 - 7
 - 8



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



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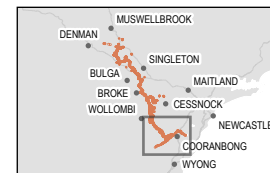
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Legend

- Biodiversity study area
- Local government area
- Terrestrial connectivity buffers
 - 1km buffer
 - 10km buffer
- Barriers
 - Road
 - Power station
 - Existing transmission line
 - Potential locations of vehicle strike
 - Brownfield areas of subject land
 - Brownfield areas of subject land including potential locations of vehicle strike
 - Forestry road where increased vehicle strike is possible
- Habitat features
 - Waterbody
 - Cliff lines/escarpments
 - Remnant vegetation (within 10km of subject land)
 - NPWS reserve
 - State conservation area
 - Flora reserve
 - State forest
 - Broad movement corridor
 - Fauna connectivity locations
- Watercourses (Strahler stream order)
 - 6



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



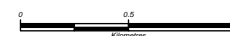
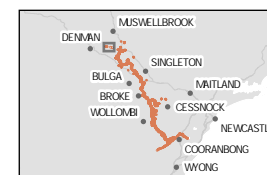
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Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
World Imagery: Earthstar Geographics

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Legend

- Biodiversity study area
- Local government area
- Terrestrial connectivity buffers
 - 1km buffer
 - 10km buffer
- Barriers
 - Road
 - Existing transmission line
 - Potential locations of vehicle strike
 - Brownfield areas of subject land
- Habitat features
 - Waterbody
 - Remnant vegetation (within 10km of subject land)



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



1:35,000 Date: 15/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW
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Legend

- Biodiversity study area
- Local government area
- Terrestrial connectivity buffers
 - 1km buffer
 - 10km buffer
- Barriers
 - Road
 - Existing transmission line
 - Potential locations of vehicle strike
 - Brownfield areas of subject land
- Habitat features
 - Waterbody
 - Remnant vegetation (within 10km of subject land)



0 0.5 1
Kilometres



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



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Legend

- Biodiversity study area
- Local government area
- Terrestrial connectivity buffers
 - 1km buffer
 - 10km buffer
- Barriers
 - Road
 - Power station
 - Existing transmission line
 - Potential locations of vehicle strike
 - Brownfield areas of subject land
- Habitat features
 - Waterbody
 - Remnant vegetation (within 10km of subject land)
 - Fauna connectivity locations



0 0.5 1
Kilometres

Coordinate system: GDA2020 MGA Zone 56

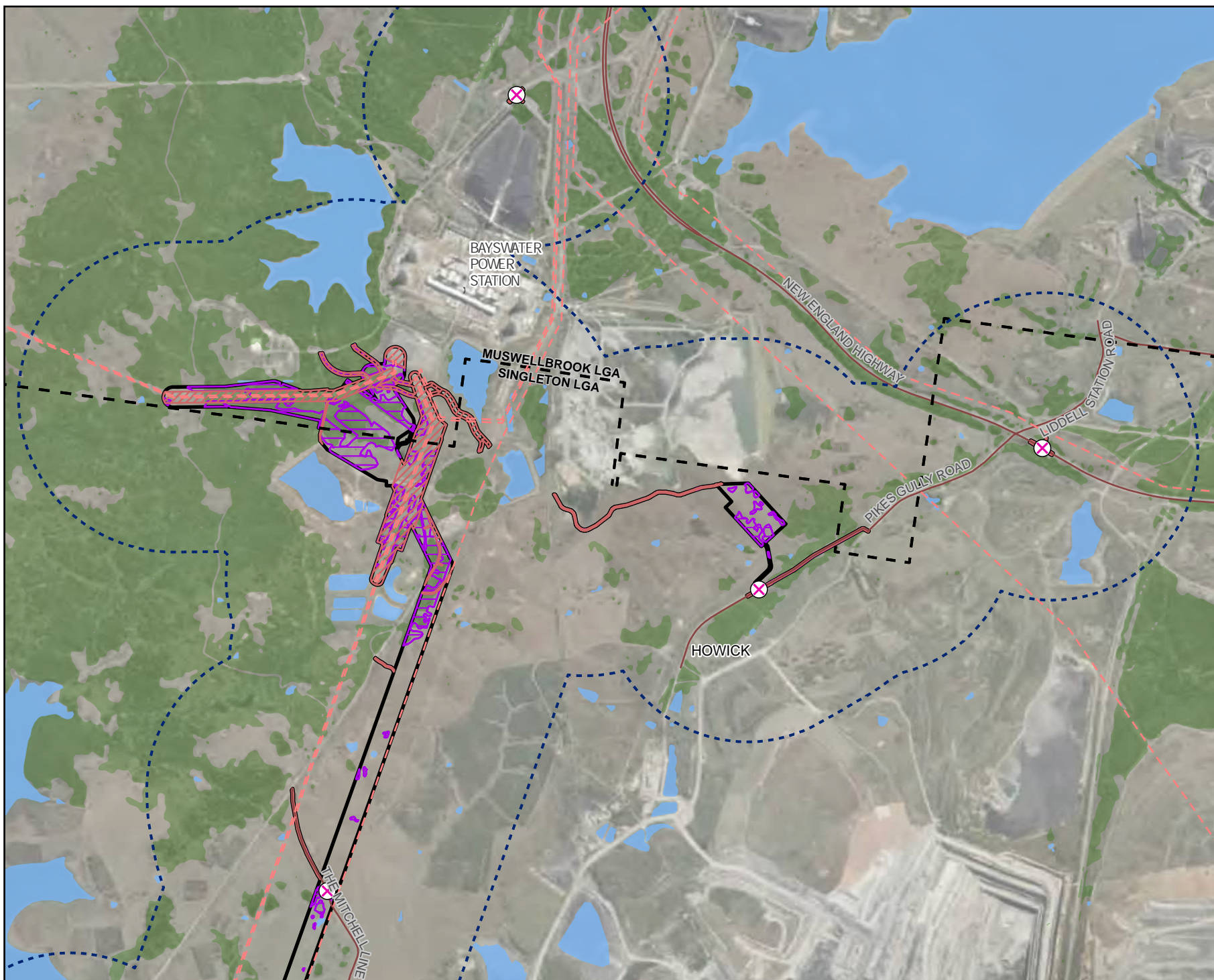
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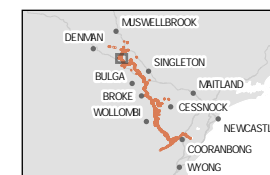
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World Imagery: Maxar

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Legend

- Biodiversity study area
- Local government area
- Terrestrial connectivity buffers
 - 1km buffer
 - 10km buffer
- Barriers
 - Road
 - Existing transmission line
 - Potential locations of vehicle strike
 - Brownfield areas of subject land
- Habitat features
 - Waterbody
 - Remnant vegetation (within 10km of subject land)
 - Fauna connectivity locations
- Watercourses (Strahler stream order)
 - 9



Coordinate system: GDA2020 MGA Zone 56

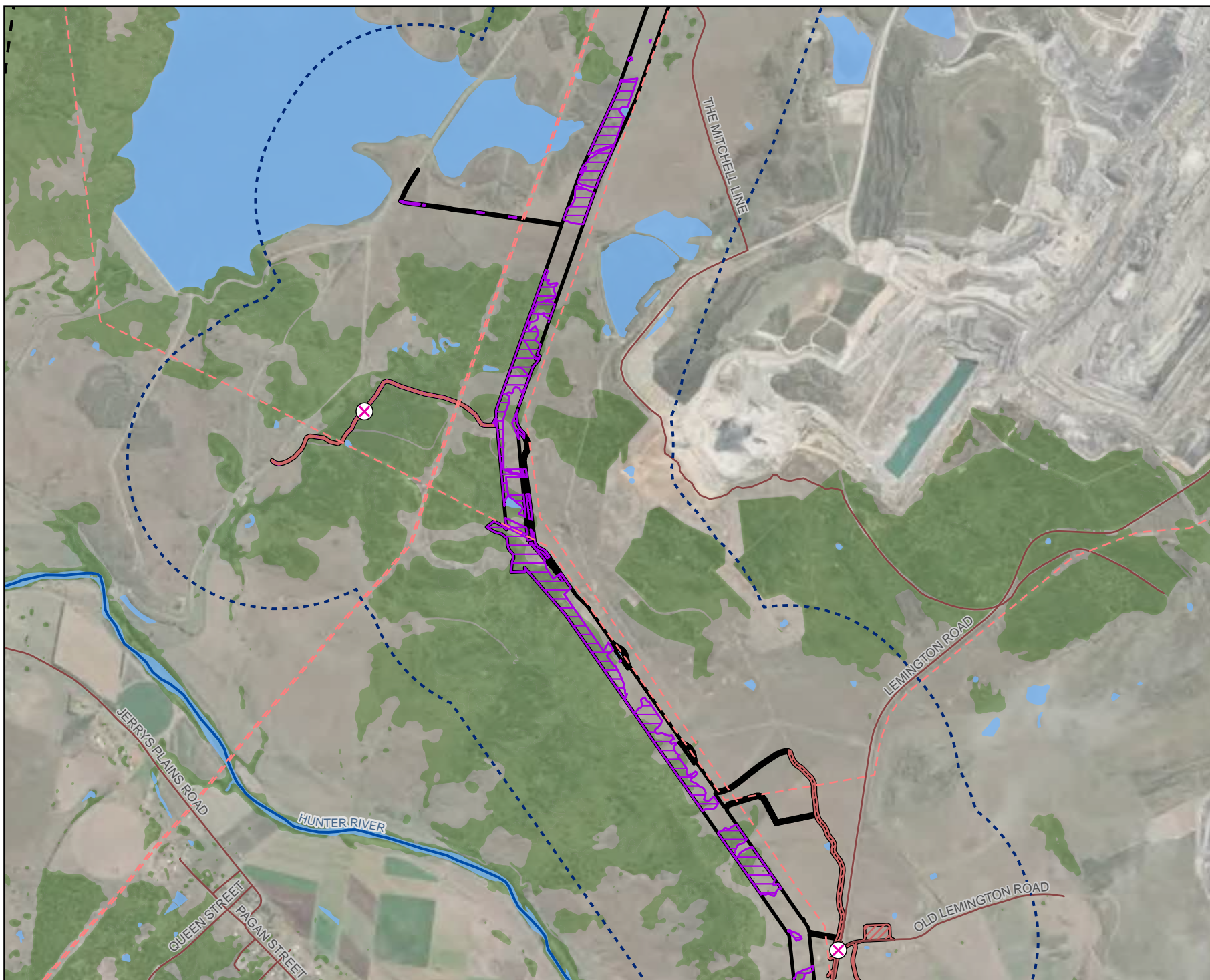
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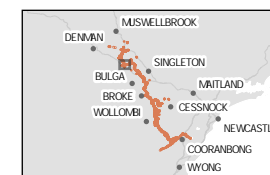
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Legend

- Biodiversity study area
- Local government area
- Terrestrial connectivity buffers
 - 1km buffer
 - 10km buffer
- Barriers
 - Road
 - Existing transmission line
 - Potential locations of vehicle strike
 - Brownfield areas of subject land
- Habitat features
 - Waterbody
 - Remnant vegetation (within 10km of subject land)
 - Fauna connectivity locations
- Watercourses (Strahler stream order)
 - 9



Coordinate system: GDA2020 MGA Zone 56

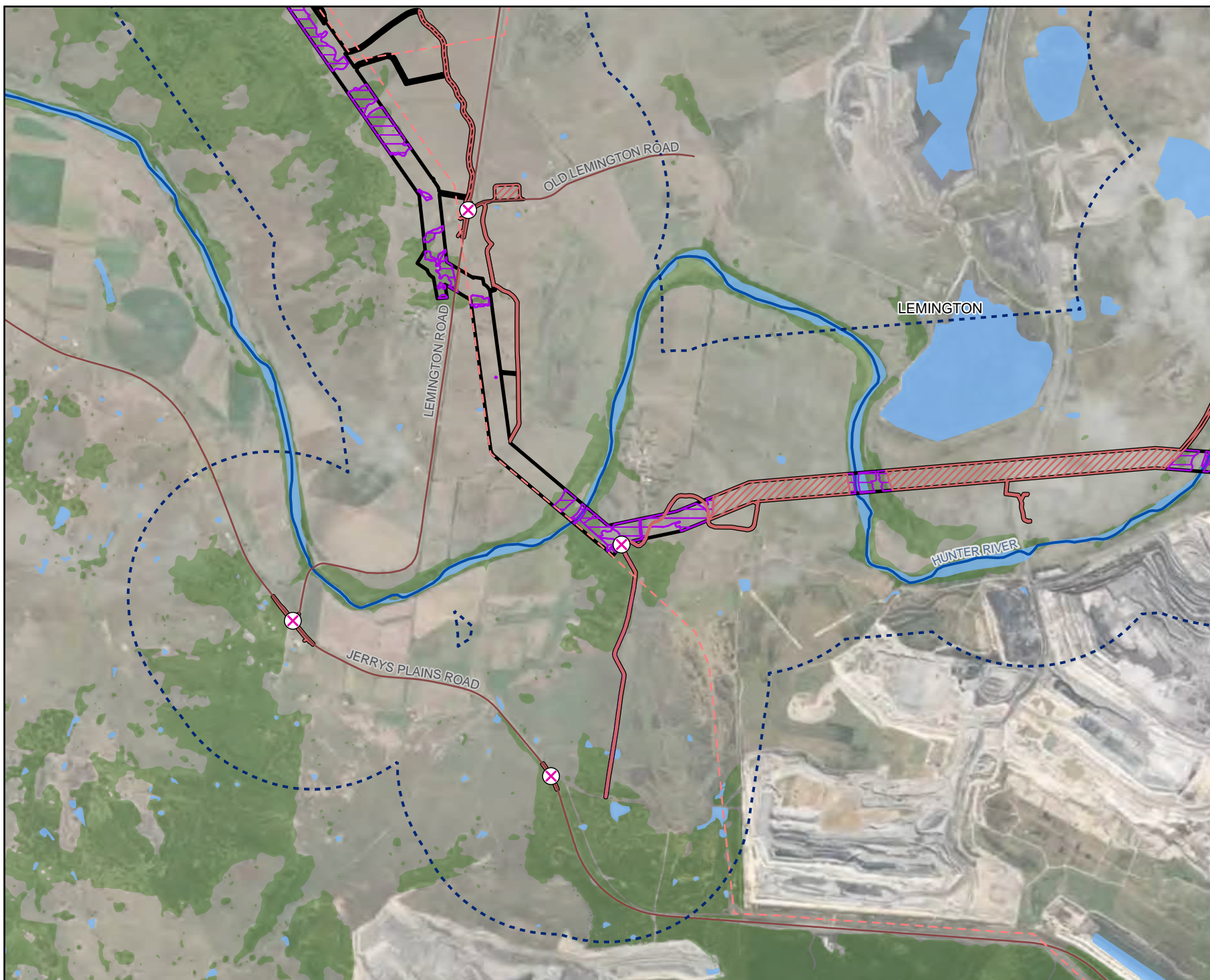
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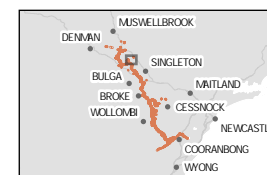
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Legend

- Biodiversity study area
- Local government area
- Terrestrial connectivity buffers
 - 1km buffer
 - 10km buffer
- Barriers
 - Road
 - Existing transmission line
 - Potential locations of vehicle strike
 - Brownfield areas of subject land
- Habitat features
 - Waterbody
 - Remnant vegetation (within 10km of subject land)
 - Fauna connectivity locations
- Watercourses (Strahler stream order)
 - 6
 - 7
 - 9



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



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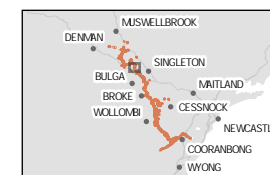
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Legend

- Biodiversity study area
- Local government area
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 - 1km buffer
 - 10km buffer
- Barriers
 - Road
 - Existing transmission line
 - Potential locations of vehicle strike
 - Brownfield areas of subject land
- Habitat features
 - Waterbody
 - Remnant vegetation (within 10km of subject land)
 - Fauna connectivity locations
- Watercourses (Strahler stream order)
 - 7
 - 8
 - 9



Coordinate system: GDA2020 MGA Zone 56

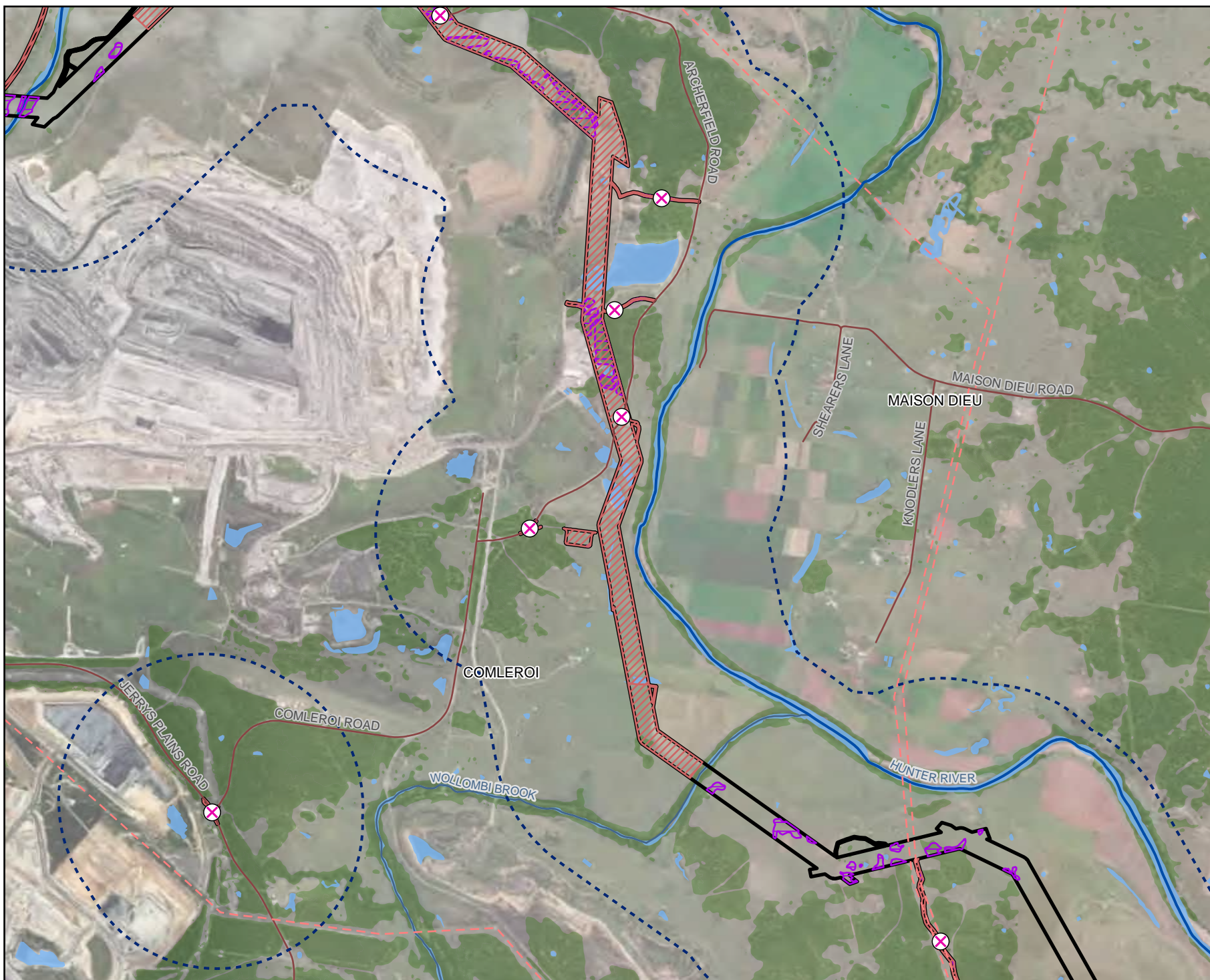
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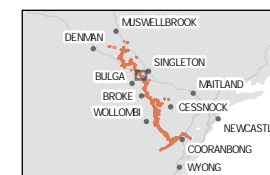
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World Imagery: Maxar

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Legend

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 - 9



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



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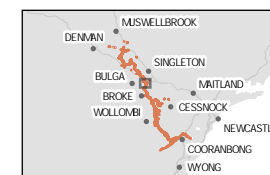
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 - Fauna connectivity locations
 - Connectivity structure



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Kilometres



Coordinate system: GDA2020 MGA Zone 56

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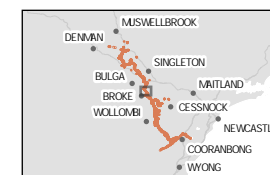
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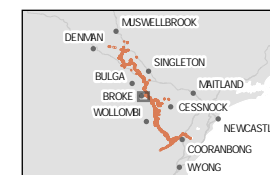
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 - Fauna connectivity locations
 - Connectivity structure
 - Watercourses (Strahler stream order)**
 - 8



0 0.5 1
Kilometres

Coordinate system: GDA2020 MGA Zone 56

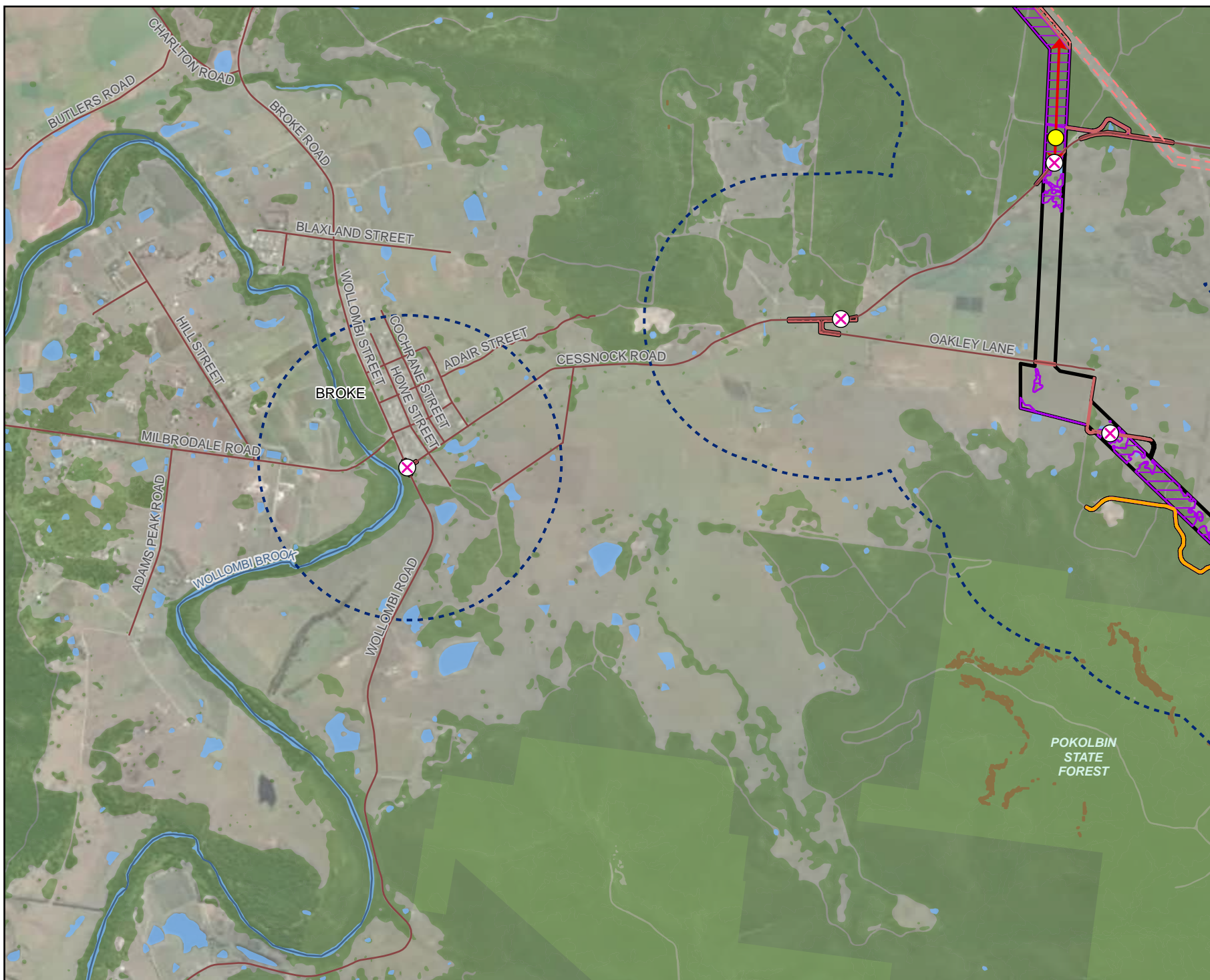
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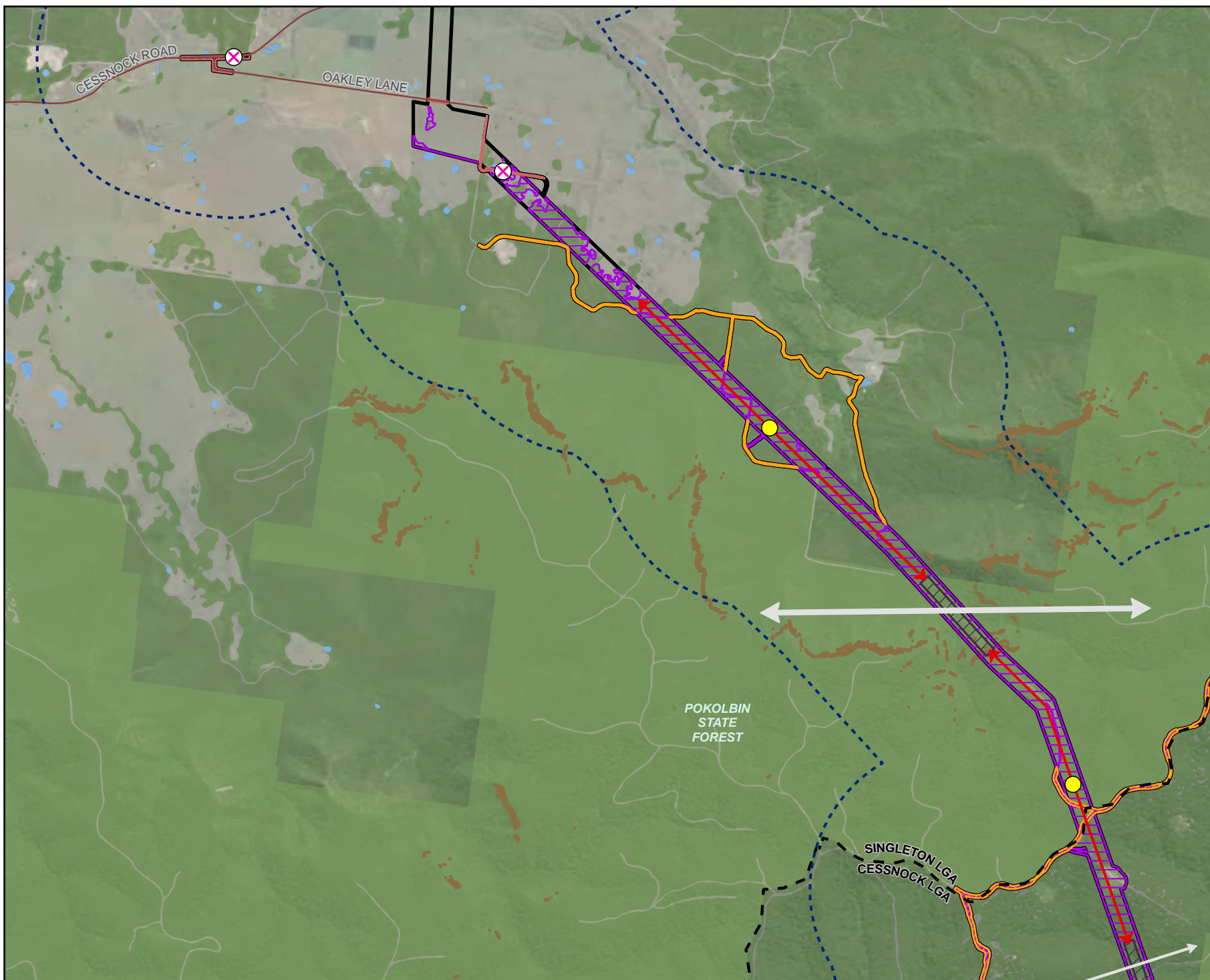


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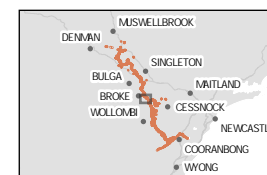
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- Remnant vegetation (within 10km of subject land)
- State forest
- Fauna connectivity locations
- Connectivity structure
- Terrestrial connectivity (major)
- Terrestrial connectivity (minor)



0 0.5 1
Kilometres

Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



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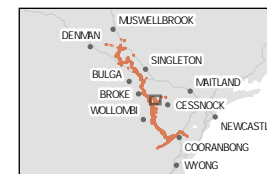
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 - Flora reserve
 - State forest
- Fauna connectivity locations
- Connectivity structure
- Terrestrial connectivity (minor)



0 0.5 1
Kilometres

Coordinate system: GDA2020 MGA Zone 56

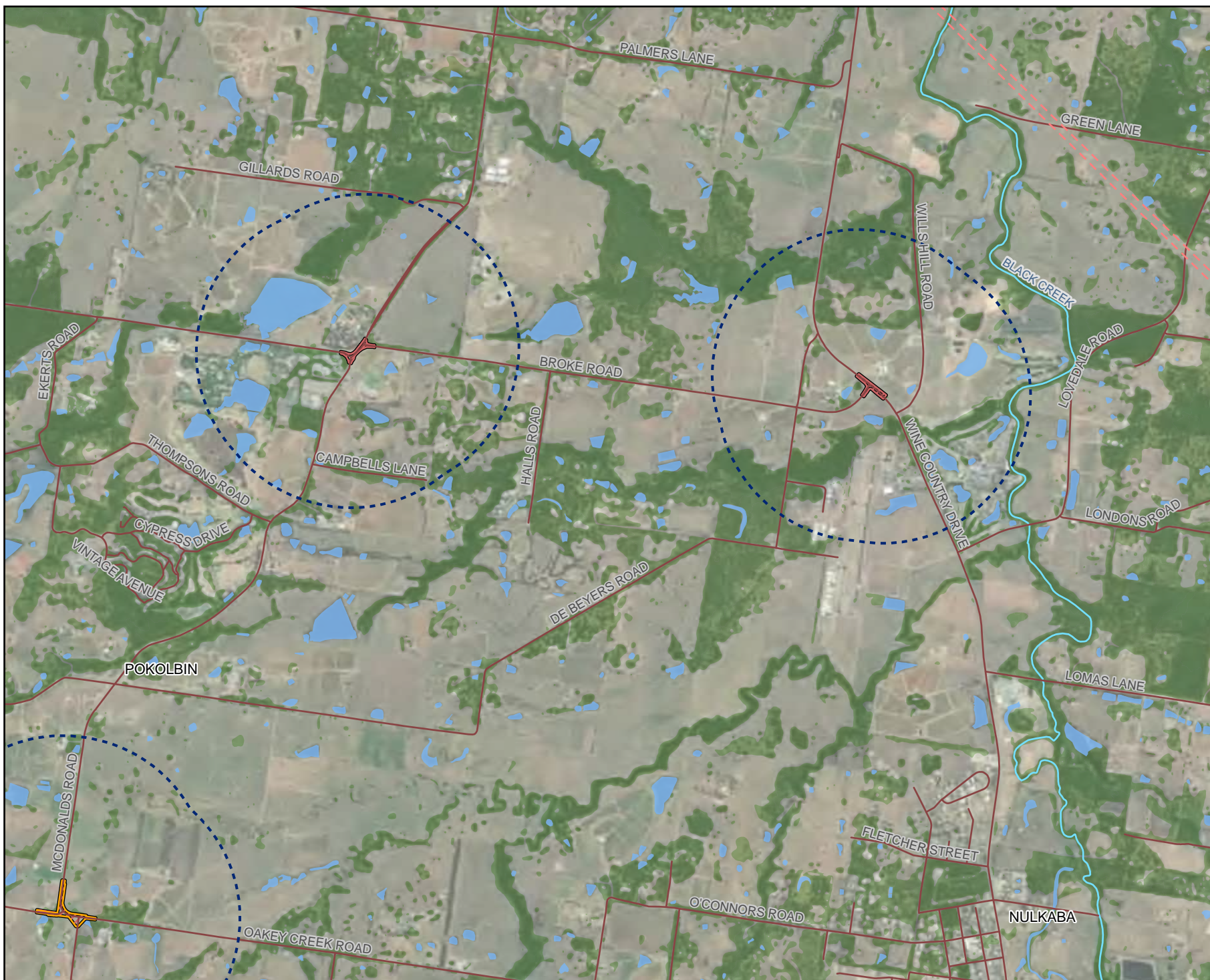
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 - Waterbody
 - Remnant vegetation (within 10km of subject land)
 - Fauna connectivity locations
- Watercourses (Strahler stream order)
 - 6



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



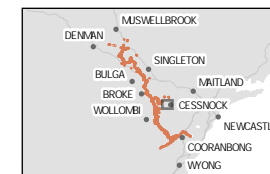
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- Watercourses (Strahler stream order)
 - 6



Coordinate system: GDA2020 MGA Zone 56

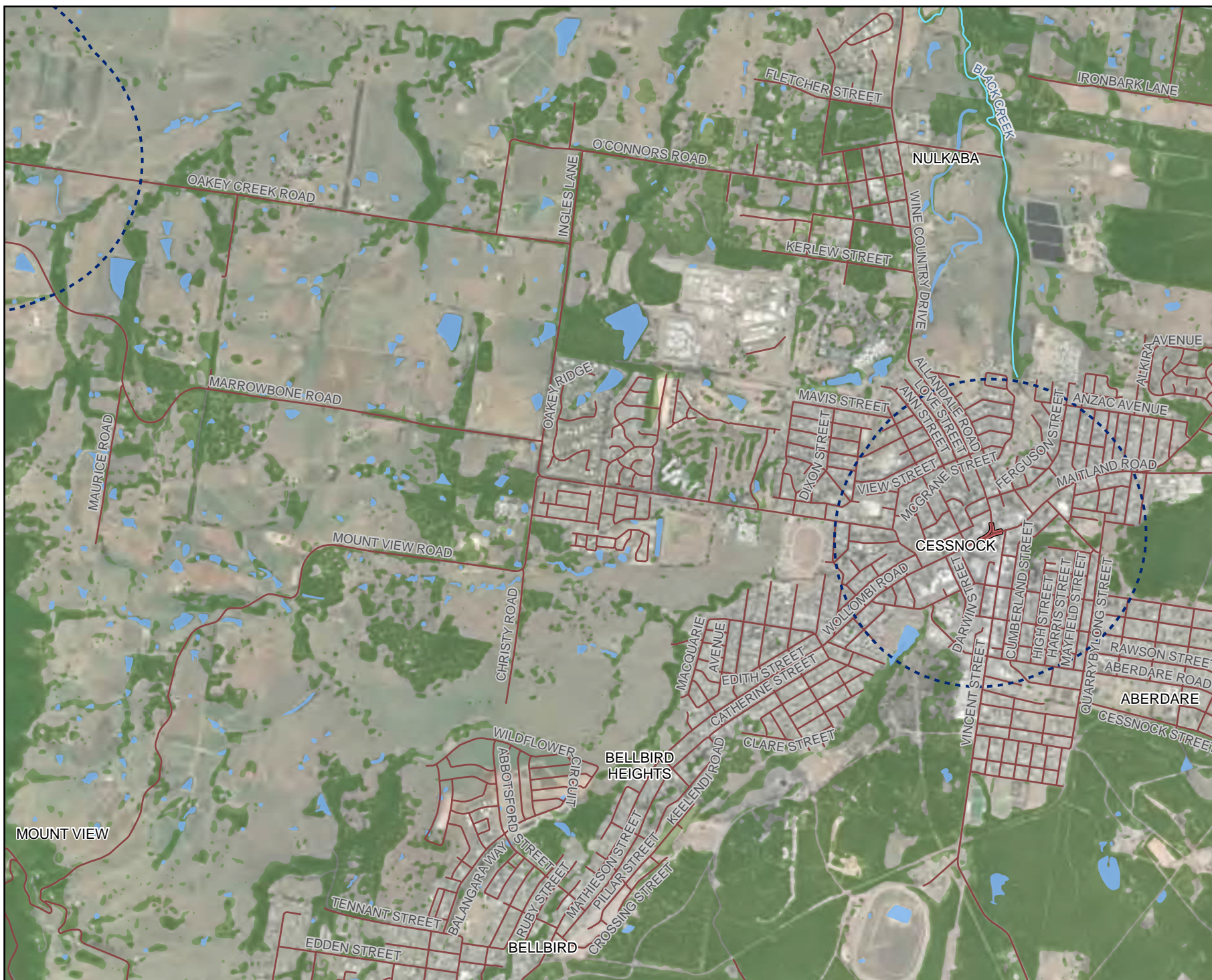
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- State forest
- Fauna connectivity locations
- Connectivity structure
- Terrestrial connectivity (major)
- Terrestrial connectivity (minor)
- Watercourses (Strahler stream order)**
- 6



Coordinate system: GDA2020 MGA Zone 56

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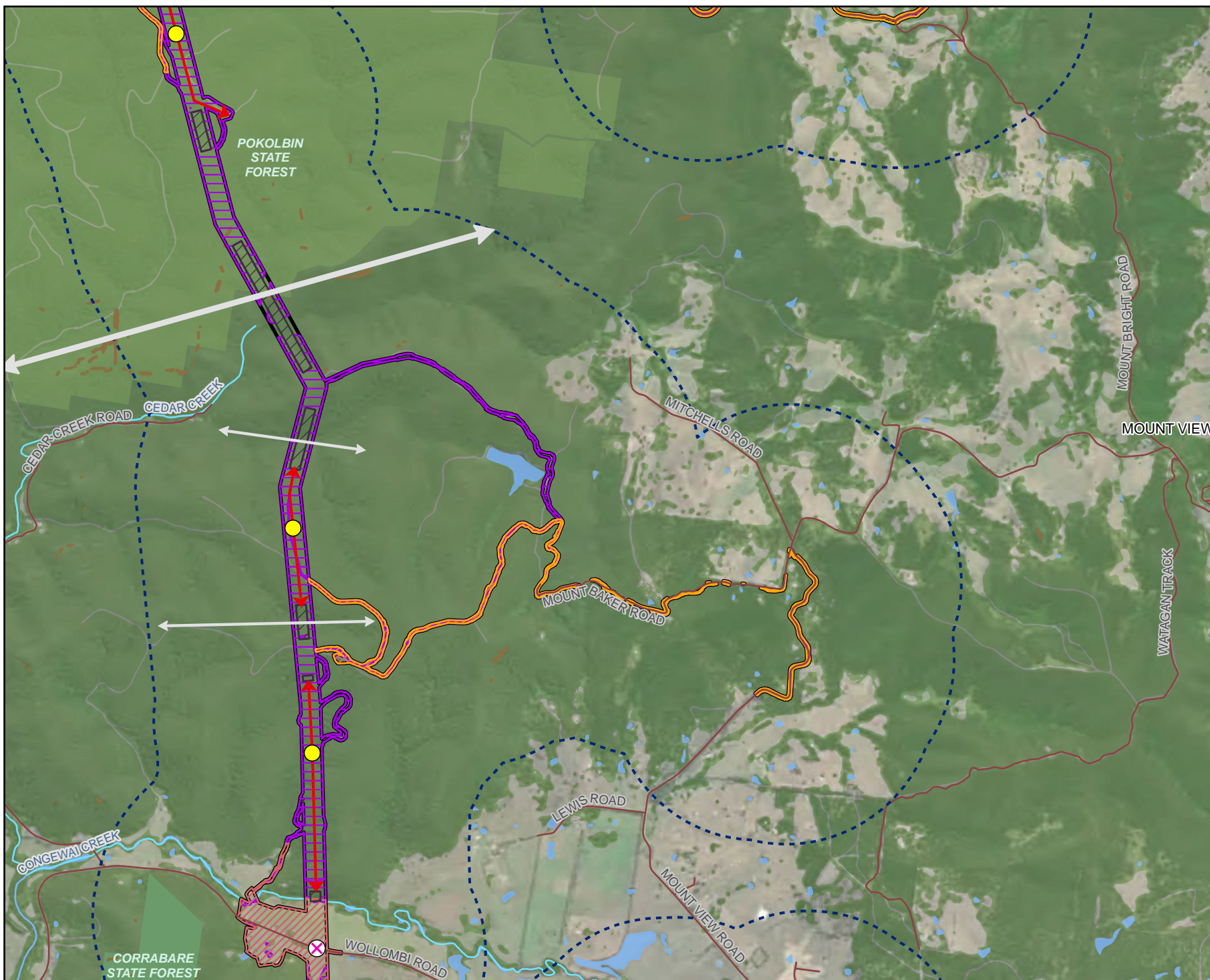


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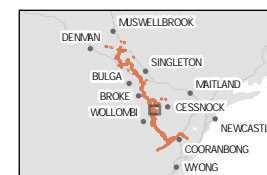
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 - State forest
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 - Terrestrial connectivity (minor)
- Watercourses (Strahler stream order)**
 - 6
 - 7



0 0.5 1
Kilometres

Coordinate system: GDA2020 MGA Zone 56

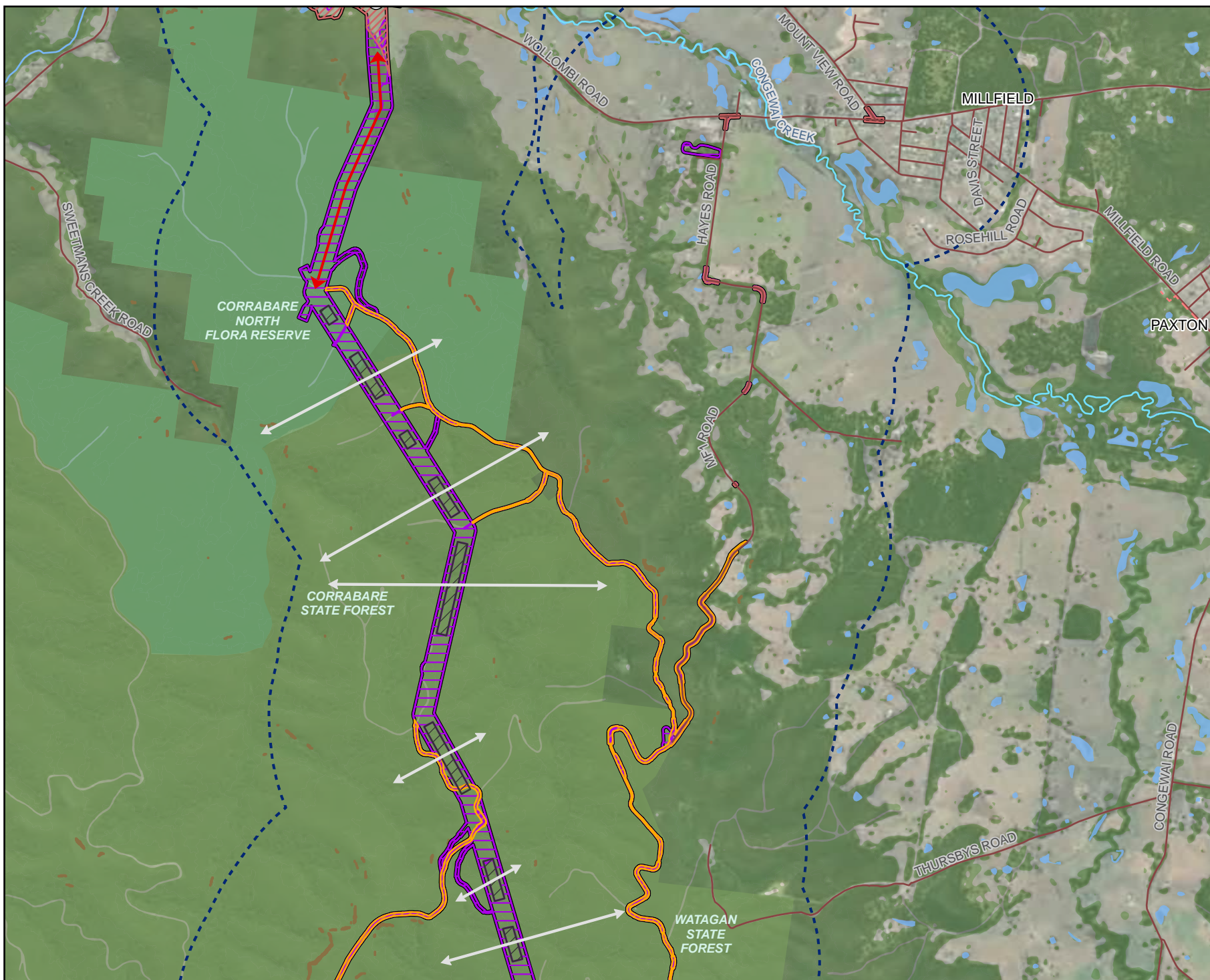
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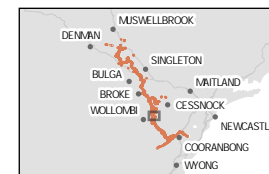
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 - NPWS reserve
 - Flora reserve
 - State forest
 - Fauna connectivity locations
 - Terrestrial connectivity (minor)
 - Watercourses (Strahler stream order)**
 - 6
 - 7



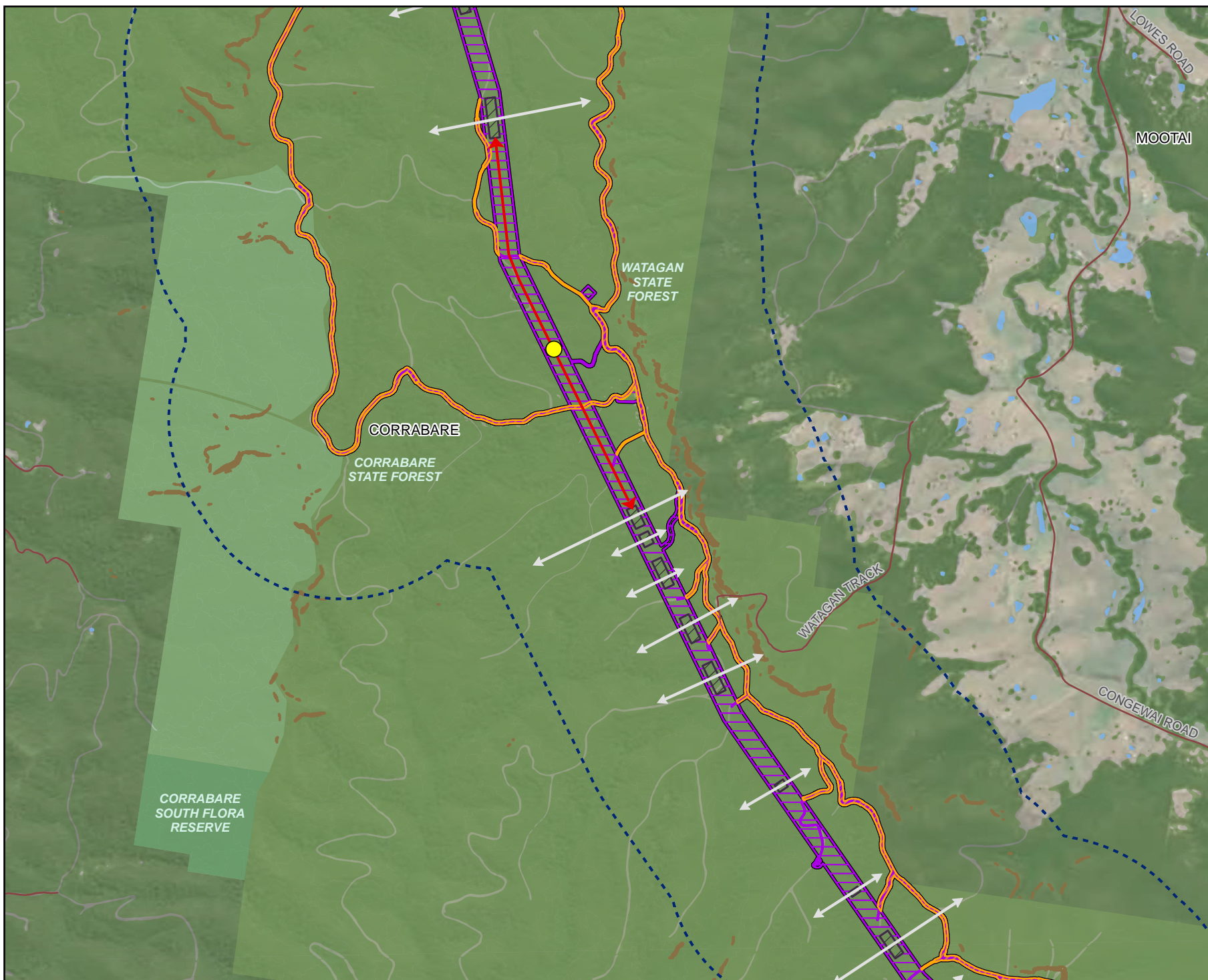
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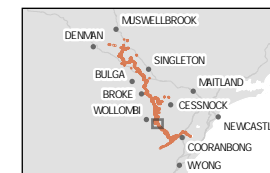
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- State forest
- Fauna connectivity locations
- Connectivity structure
- Terrestrial connectivity (minor)



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Kilometres

Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

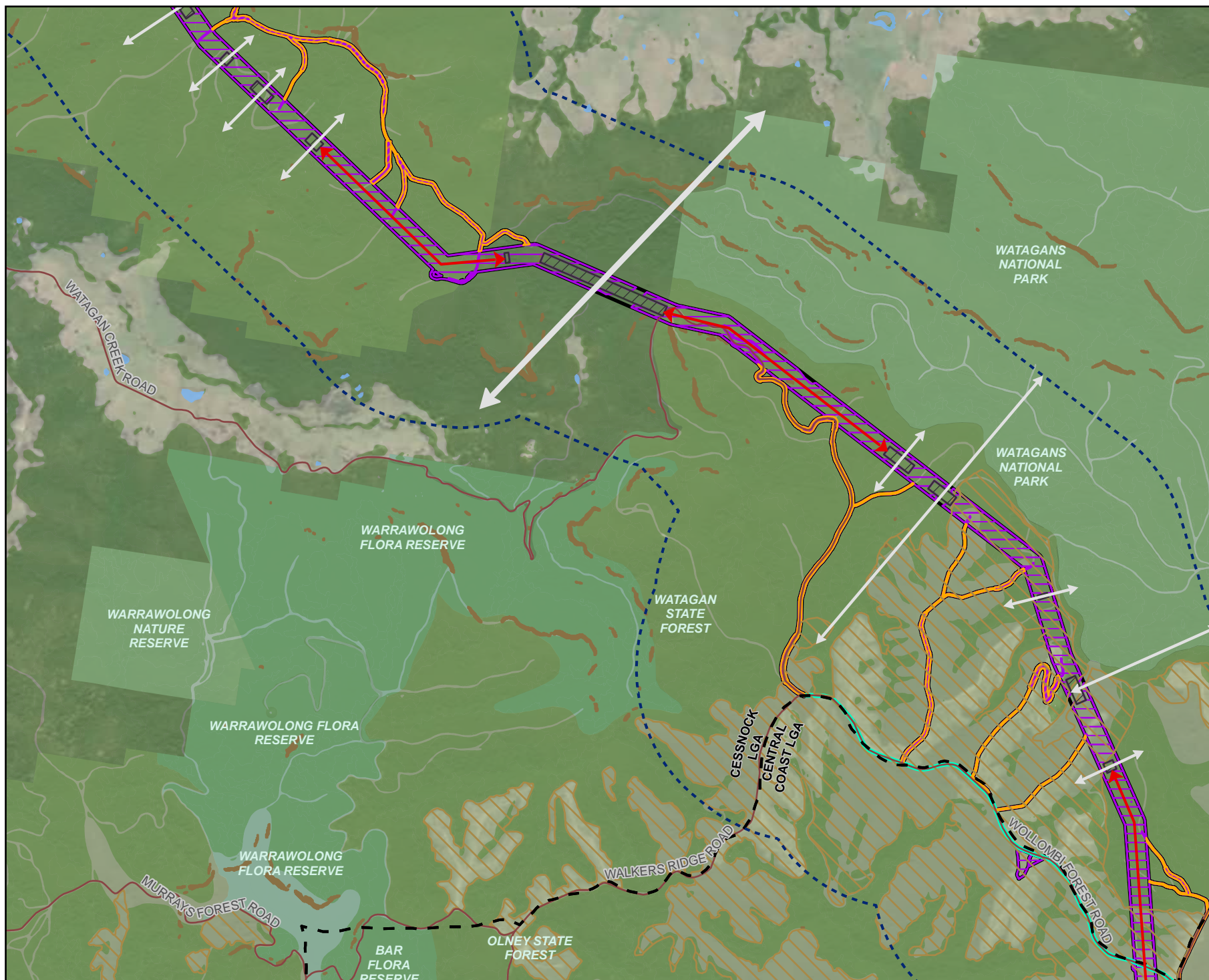


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






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Figure 14.18
Terrestrial connectivity (detail)
Page 20 of 25



Legend

-  Biodiversity study area
 Non-disturbance area
 Local government area
Terrestrial connectivity buffers
 1km buffer
 10km buffer
Barriers
 Road
 Brownfield areas of subject land including potential locations of vehicle strike
 Forestry road where increased vehicle strike is possible
 New barrier
Habitat features
 Waterbody
 Cliff lines/escarpments
 Remnant vegetation (within 10km of subject land)
 NPWS reserve
 State conservation area
 Flora reserve
 State forest
 Hardwood plantation zone
 Fauna connectivity locations
 Terrestrial connectivity (major)
 Terrestrial connectivity (minor)



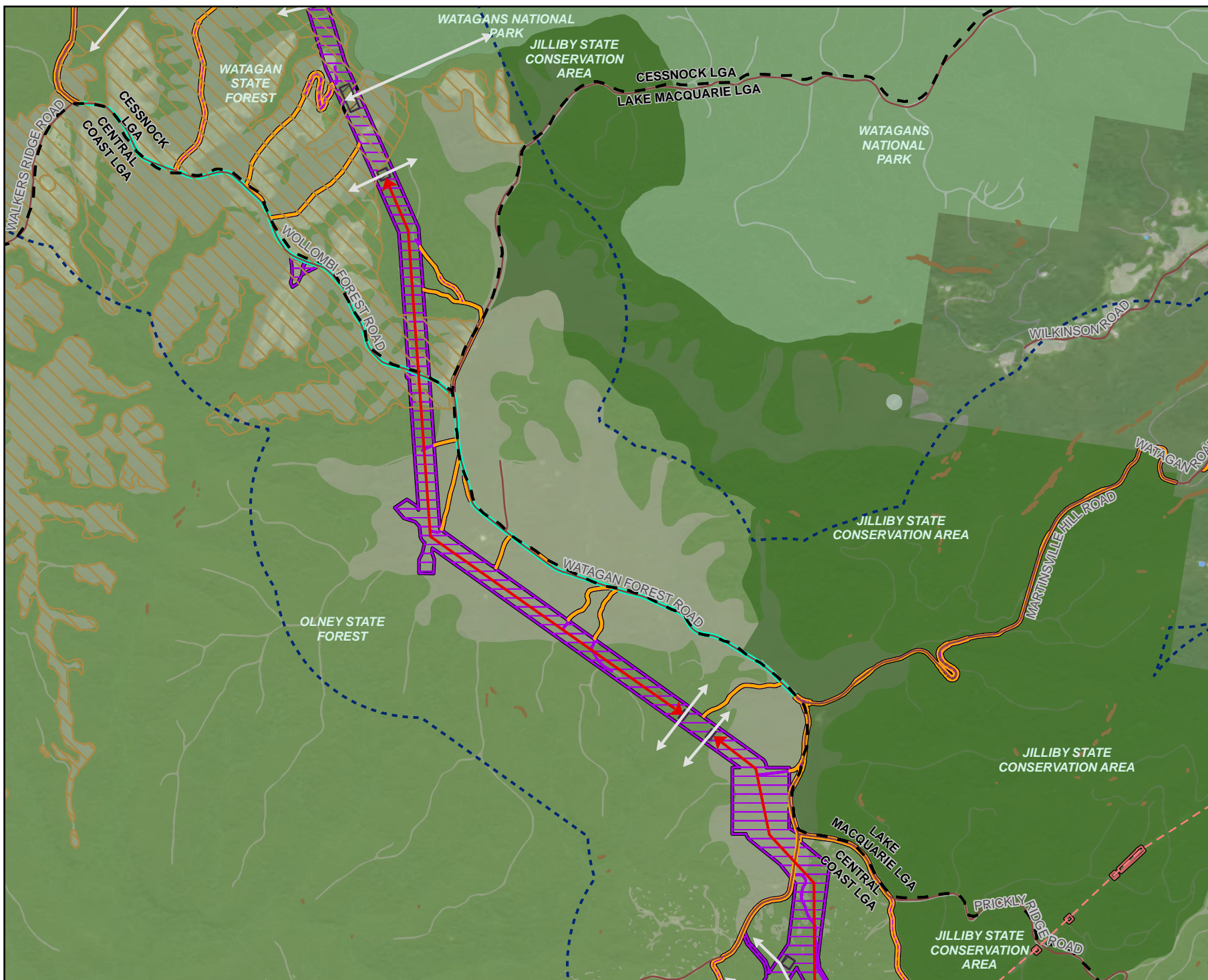
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 - Habitat features**
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 - Cliff lines/escarpments
 - Remnant vegetation (within 10km of subject land)
 - NPWS reserve
 - State conservation area
 - State forest
 - Hardwood plantation zone
 - Fauna connectivity locations
 - ↔ Terrestrial connectivity (minor)



0 0.5 1
Kilometres

Coordinate system: GDA2020 MGA Zone 56

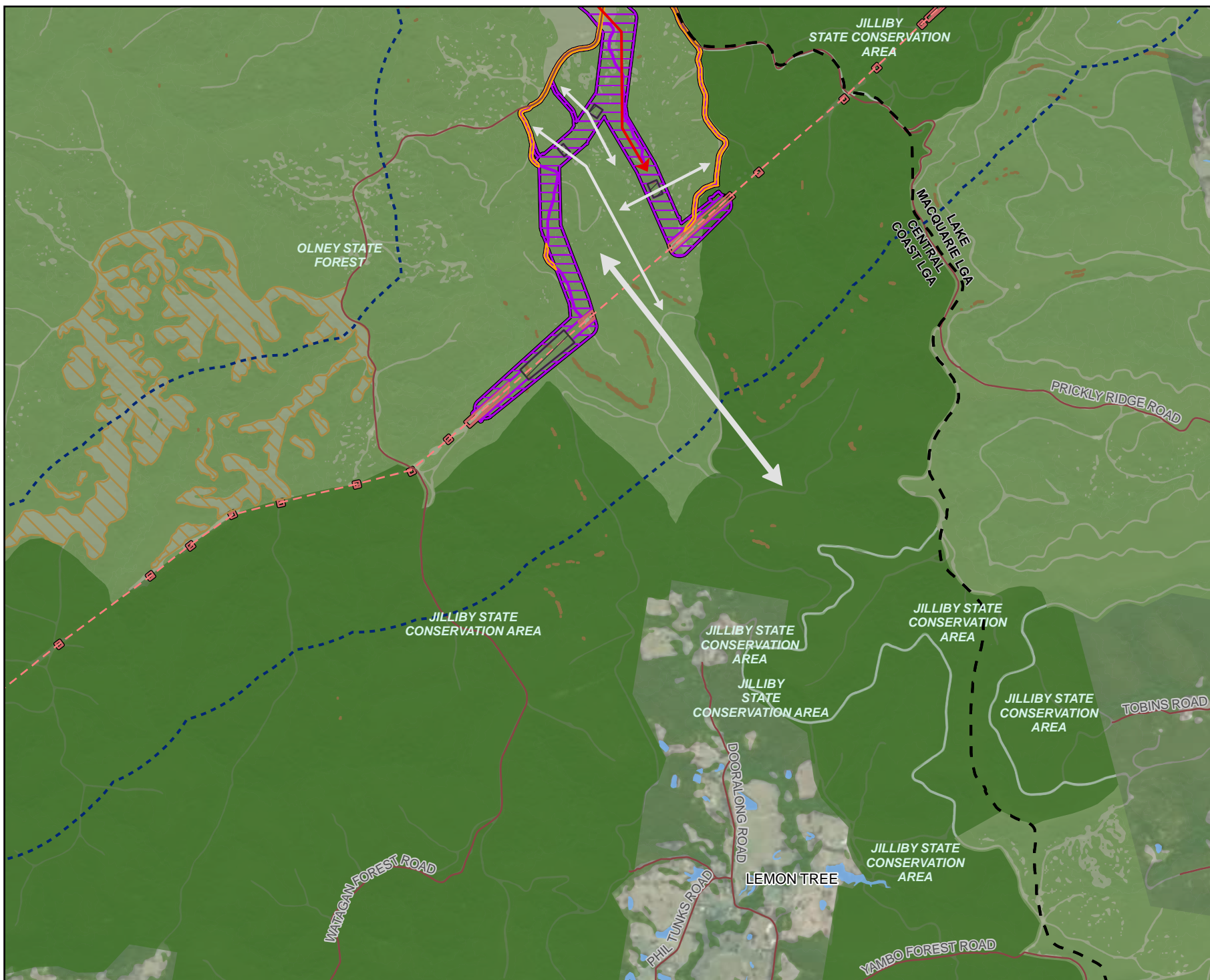
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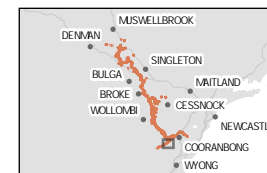
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 - Fauna connectivity locations
 - Terrestrial connectivity (major)
 - Terrestrial connectivity (minor)



0 0.5 1
Kilometres

Coordinate system: GDA2020 MGA Zone 56

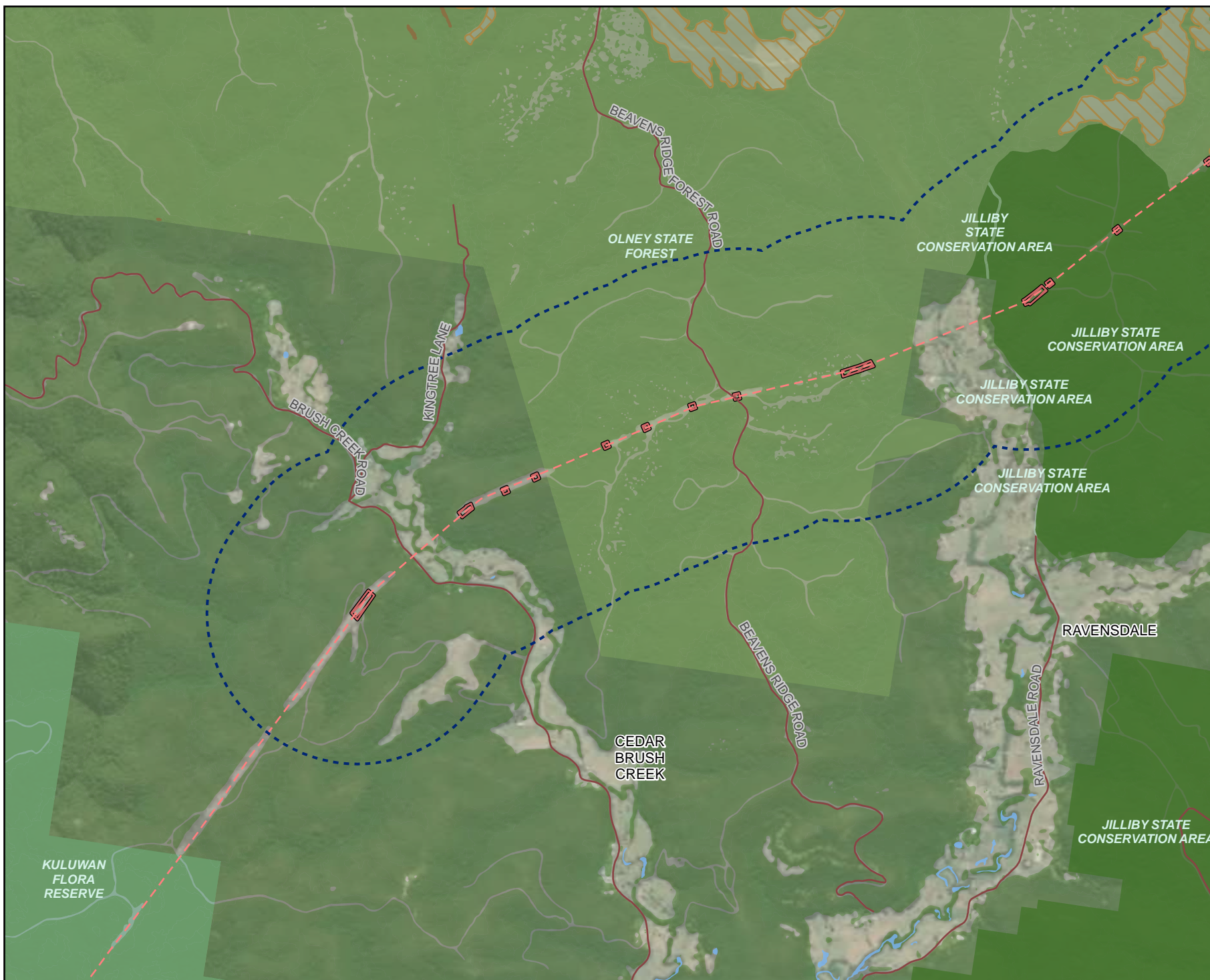
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0 0.5 1
Kilometres

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Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
World Imagery: Maxar

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Legend

-  Biodiversity study area
-  Local government area
- Terrestrial connectivity buffers**
 -  1km buffer
 -  10km buffer
- Barriers**
 -  Road
 -  Existing transmission line
 -  Potential locations of vehicle strike
 -  Brownfield areas of subject land
 -  Brownfield areas of subject land including potential locations of vehicle strike
- Habitat features**
 -  Waterbody
 -  Cliff lines/escarpments
 -  Remnant vegetation (within 10km of subject land)
 -  NPWS reserve
 -  State conservation area
 -  State forest
 -  Fauna connectivity locations
- Watercourses (Strahler stream order)**
 -  6



0 0.5 1
Kilometres

Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



1:35,000 Date: 15/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
World Imagery: Maxar

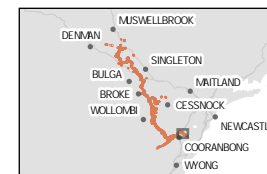
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Legend

- Biodiversity study area
- Local government area
- Terrestrial connectivity buffers**
 - 1km buffer
 - 10km buffer
- Barriers**
 - Road
 - Power station
 - Existing transmission line
 - Potential locations of vehicle strike
 - Brownfield areas of subject land
- Habitat features**
 - Waterbody
 - Remnant vegetation (within 10km of subject land)
 - NPWS reserve
 - Flora reserve
 - State forest
- Watercourses (Strahler stream order)**
 - 6



0 0.5 1
Kilometres

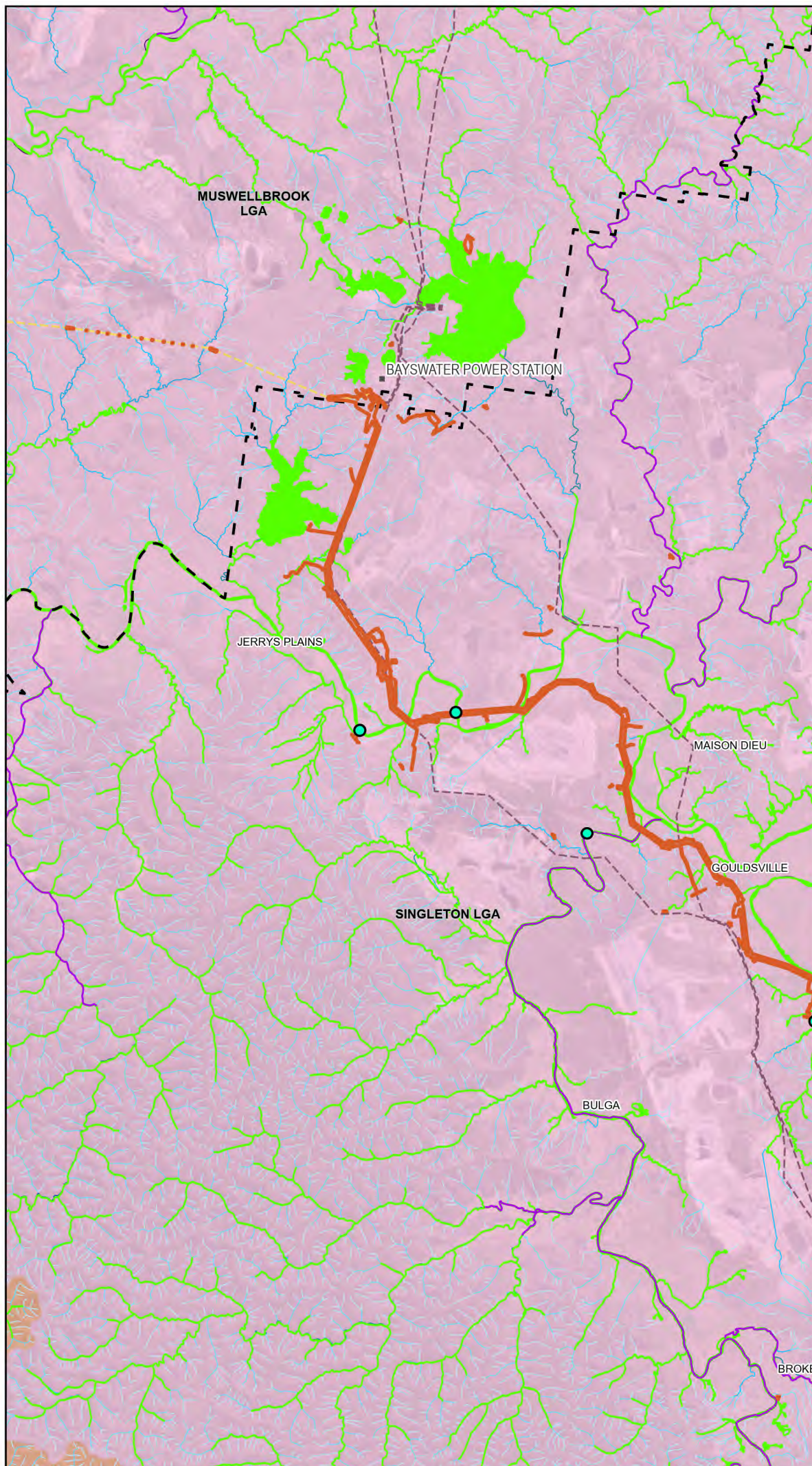
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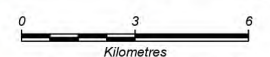
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World Imagery: Maxar

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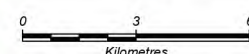
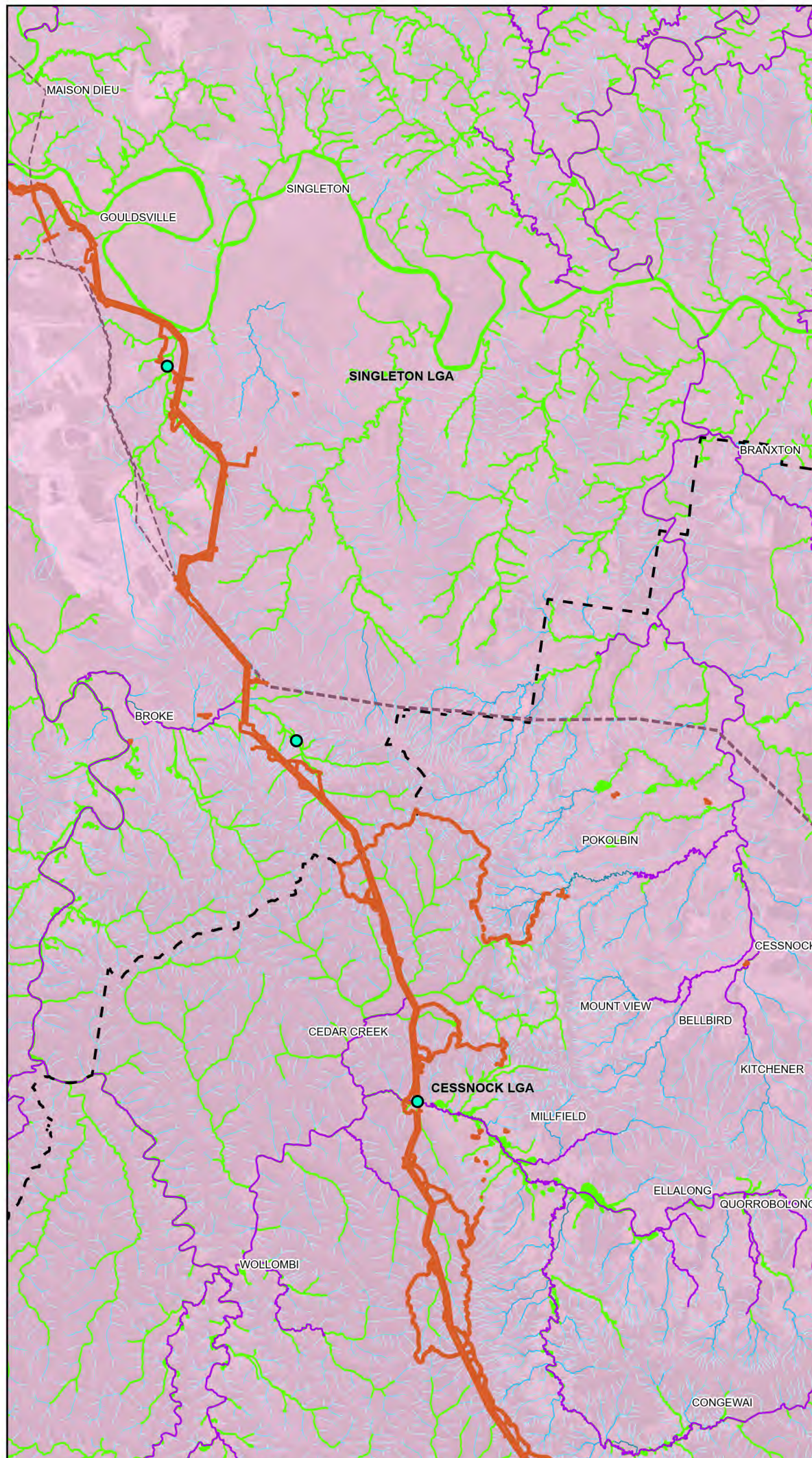
- Biodiversity study area
- Power station
- 330 kV transmission line
- 500 kV transmission line
- Local government area
- Southern Purple Spotted Gudgeon Indicative Distribution
- Key fish habitat
- Catchment boundary
 - Hawkesbury/Nepean
 - Hunter/Central Rivers
- Watercourse (strahler stream order)
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6
 - 7
 - 8
 - 9



Coordinate system: GDA2020 MGA Zone 56
Scale ratio correct when printed at A4

1:200,000 Date: 14/07/2025
Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
World Imagery: Earthstar Geographics

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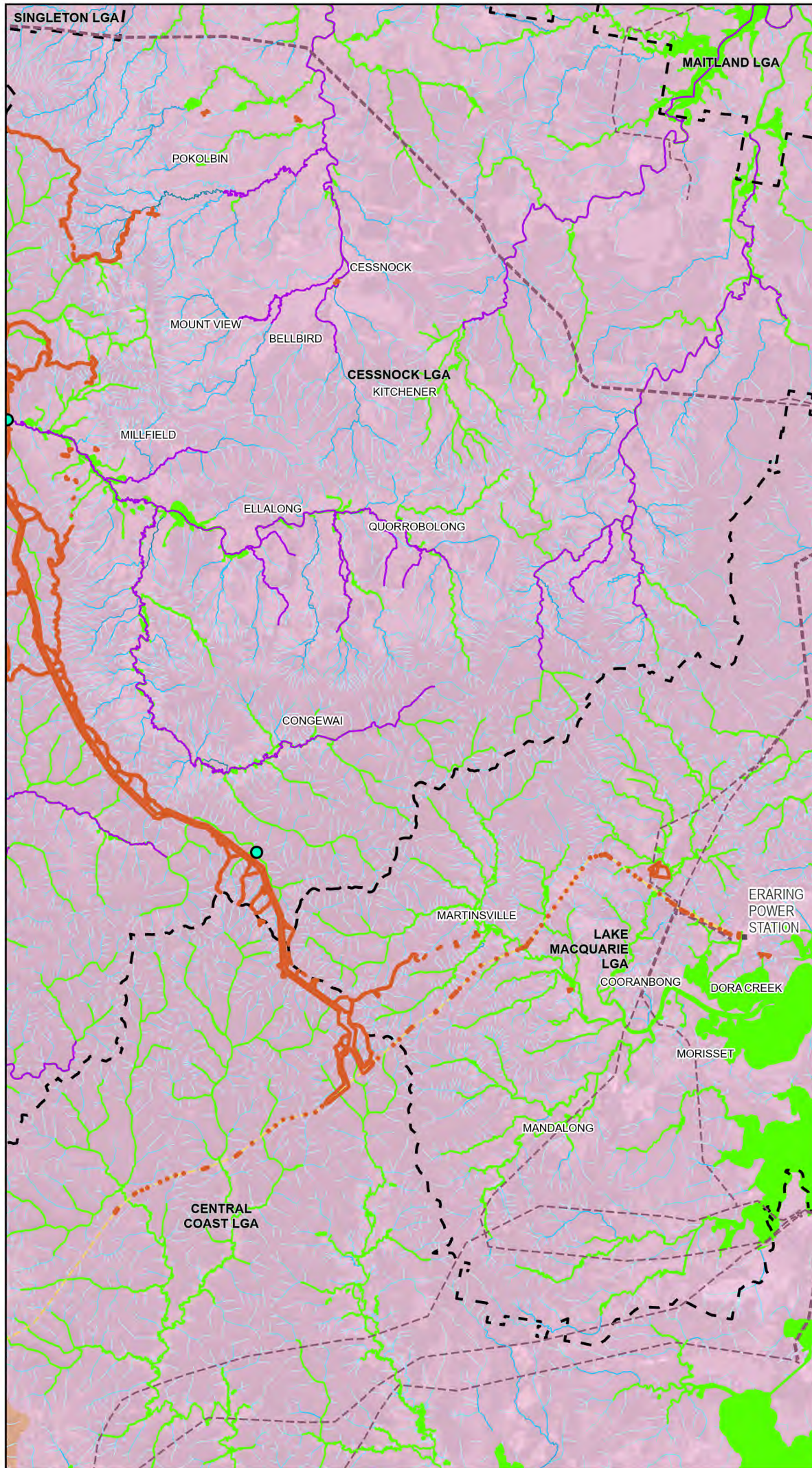
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Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
World Imagery: Earthstar Geographics

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Legend

- Biodiversity study area
- Power station
- 330 kV transmission line
- 500 kV transmission line
- ┌┐└└┐ Local government area
- Southern Purple Spotted Gudgeon Indicative Distribution
- Key fish habitat
- Catchment boundary
 - Hawkesbury/Nepean
 - Hunter/Central Rivers
- Watercourse (strahler stream order)
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6



0 3 6
Kilometres

Coordinate system: GDA2020 MGA Zone 56
Scale ratio correct when printed at A4



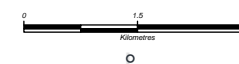
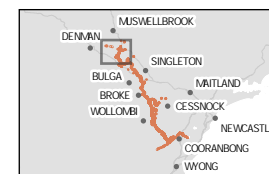
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World Imagery: Earthstar Geographics

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Power station
- 330 kV transmission line
- 500 kV transmission line
- Named watercourse
- Waterbody
- NPWS reserve
- Local government area
- Registered groundwater wells
- High potential GDE
- Low potential GDE



Coordinate system: GDA2020 MGA Zone 56

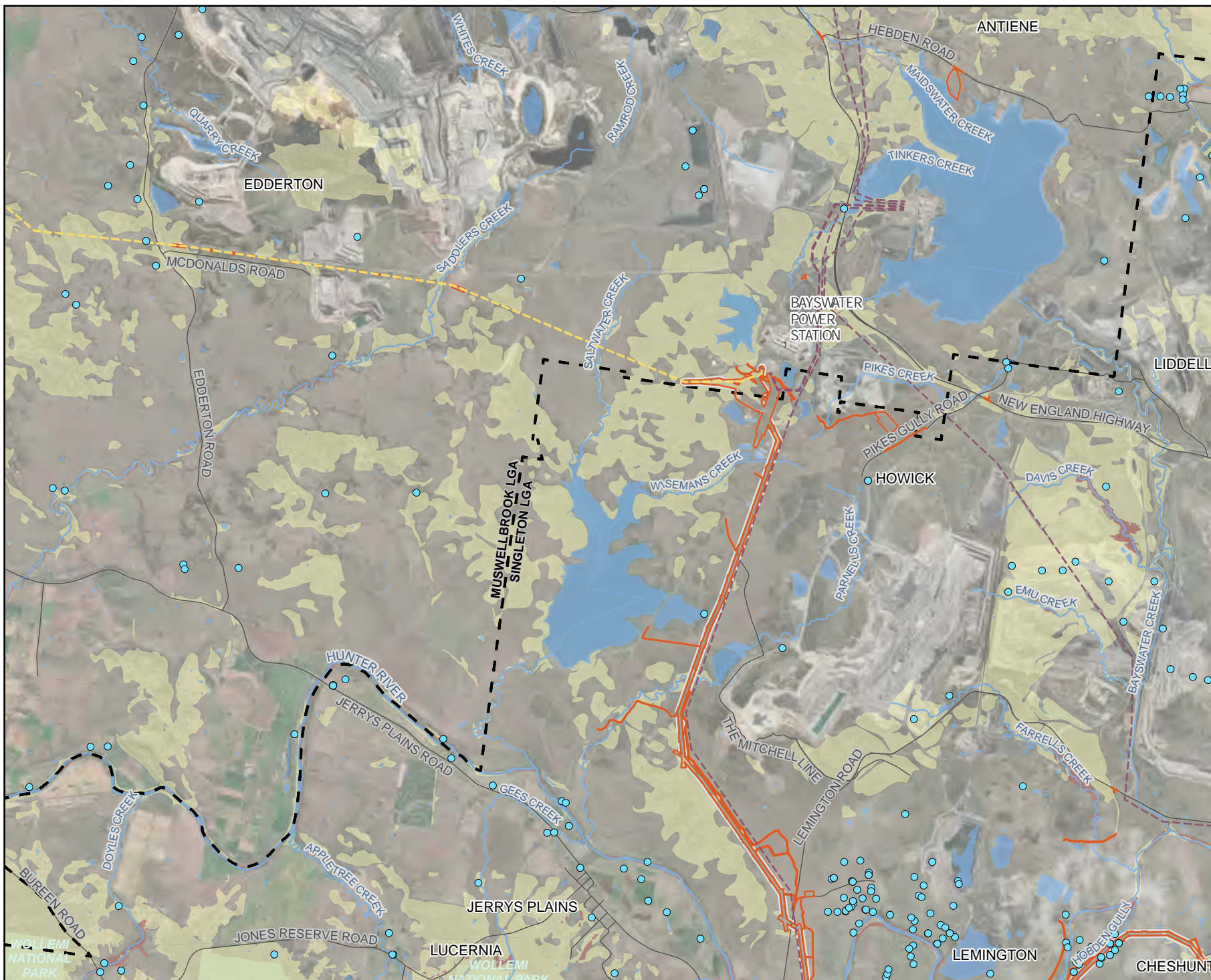
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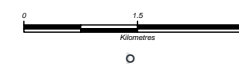
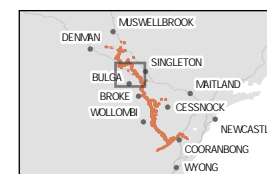
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- NPWS reserve
- Local government area
- Registered groundwater wells
- High potential GDE
- Moderate potential GDE
- Low potential GDE



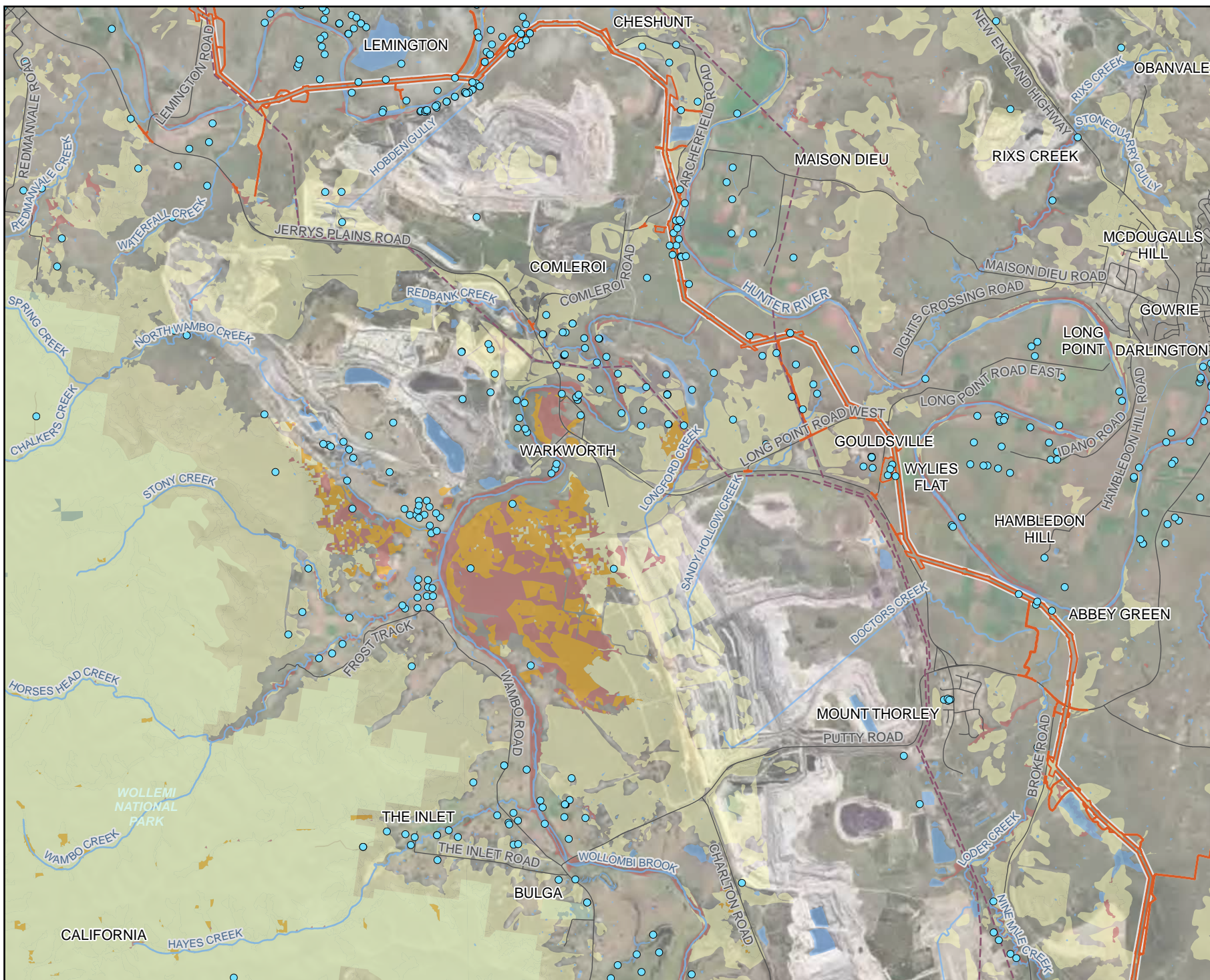
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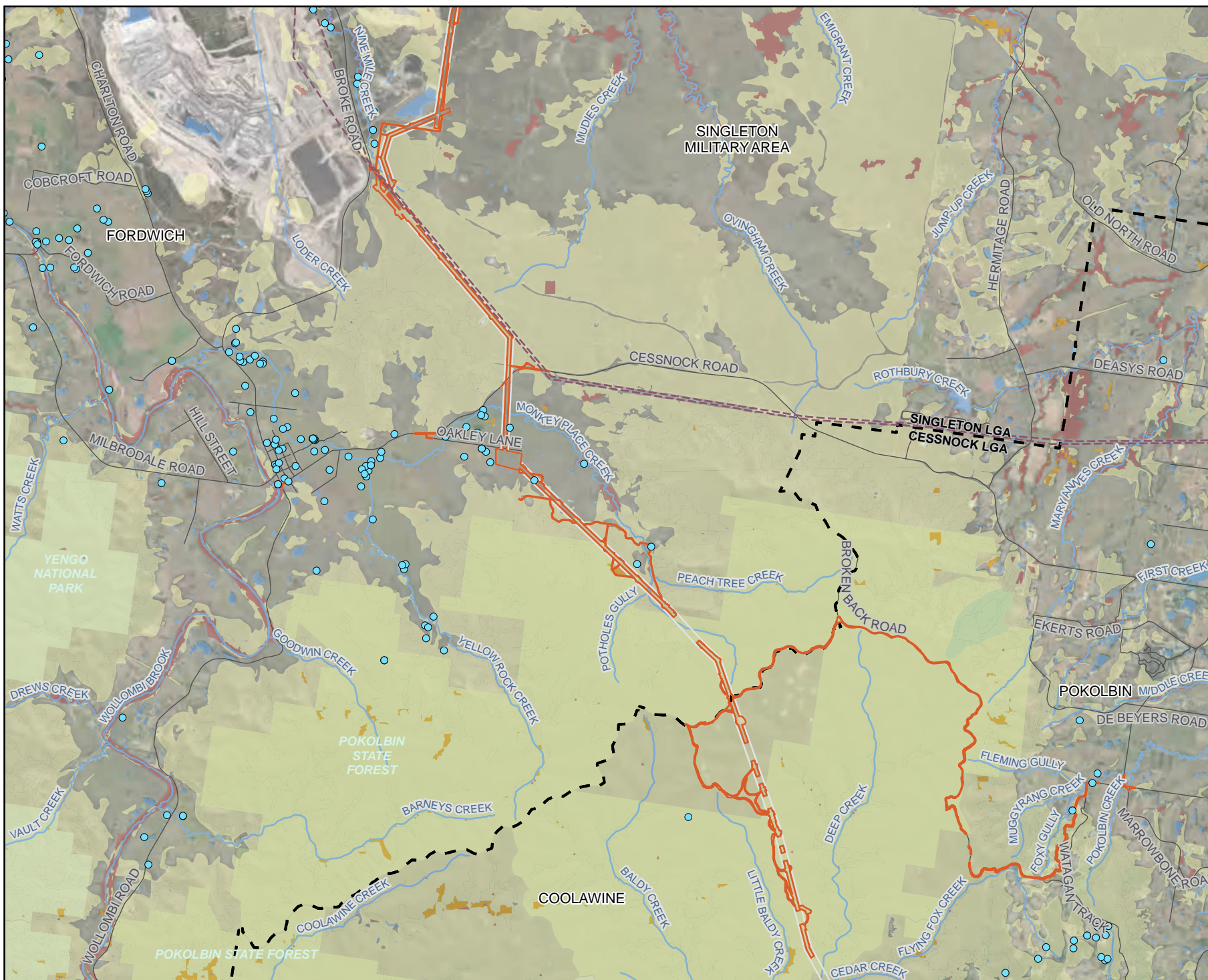
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World Imagery: Earthstar Geographics

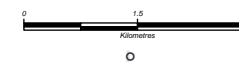
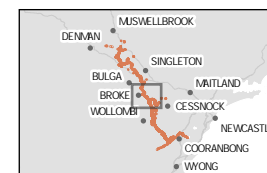
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- - - 330 kV transmission line
- Named watercourse
- Waterbody
- NPWS reserve
- Flora reserve
- State forest
- Local government area
- Registered groundwater wells
- High potential GDE
- Moderate potential GDE
- Low potential GDE



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

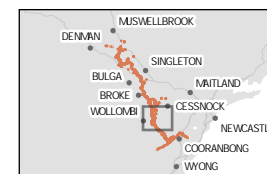
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- State conservation area
- Flora reserve
- State forest
- Local government area
- Registered groundwater wells
- High potential GDE
- Moderate potential GDE
- Low potential GDE



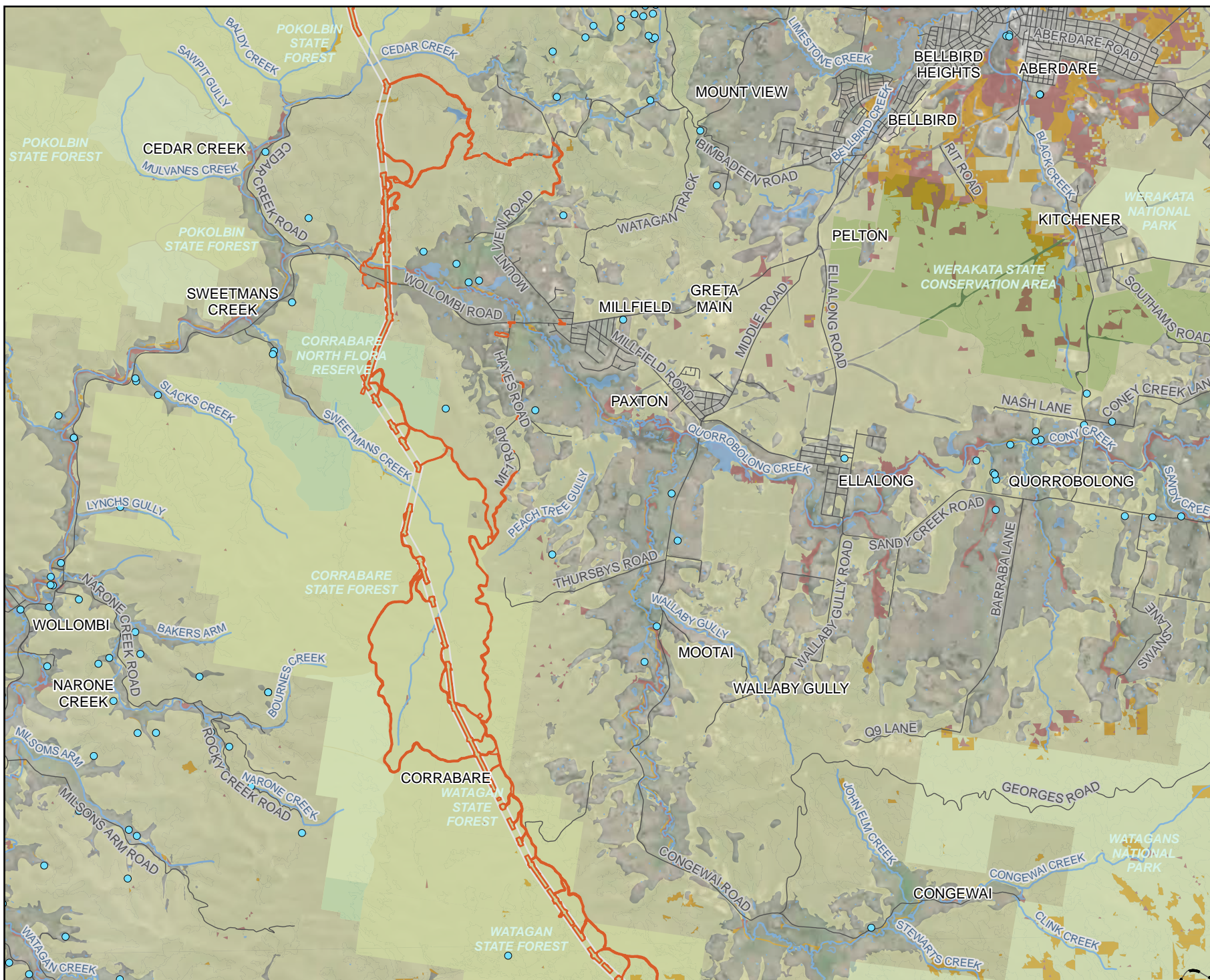
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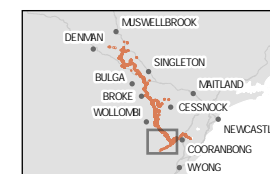
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- 500 kV transmission line
- Named watercourse
- Waterbody
- NPWS reserve
- State conservation area
- Flora reserve
- State forest
- Local government area
- Registered groundwater wells
- High potential GDE
- Moderate potential GDE
- Low potential GDE



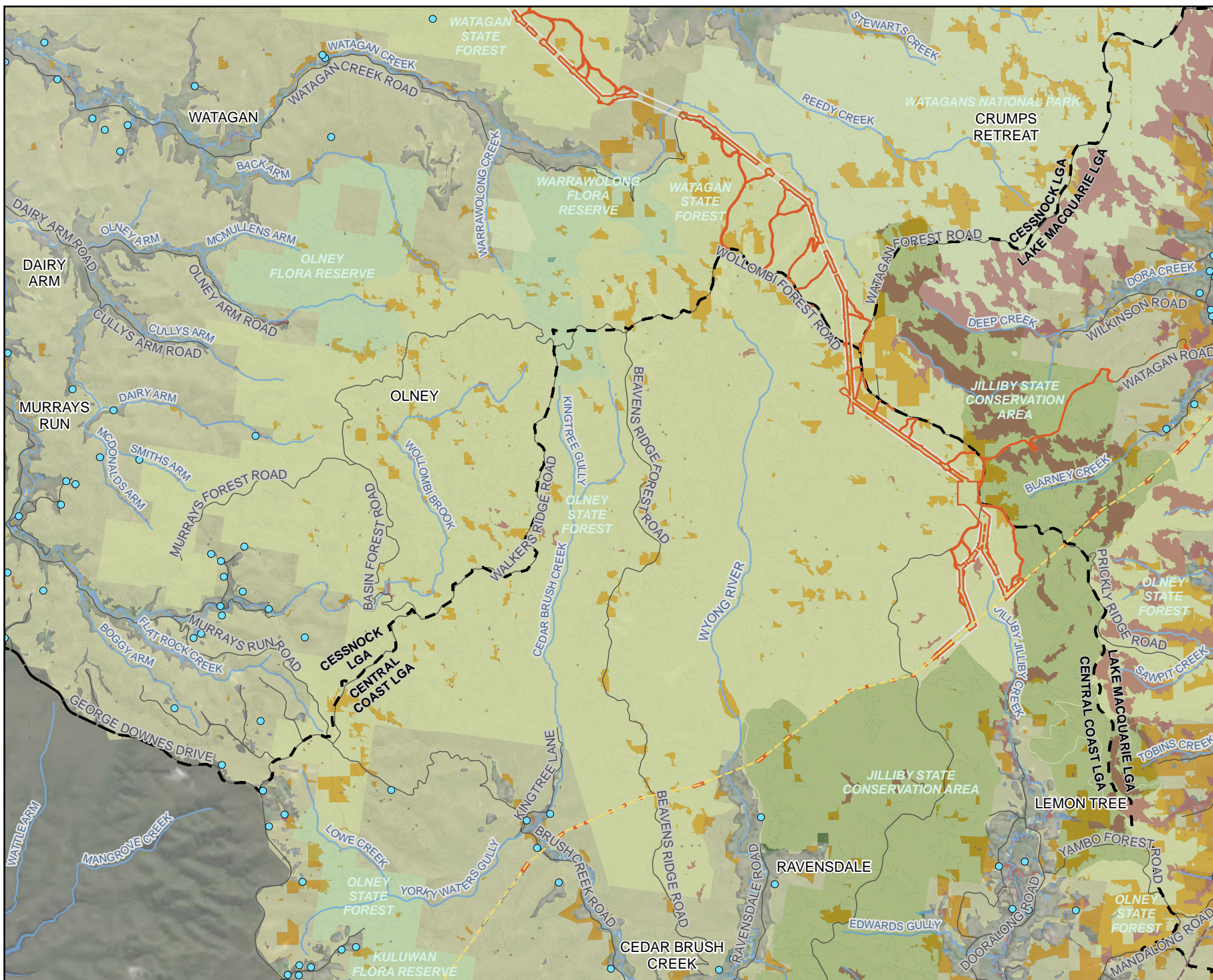
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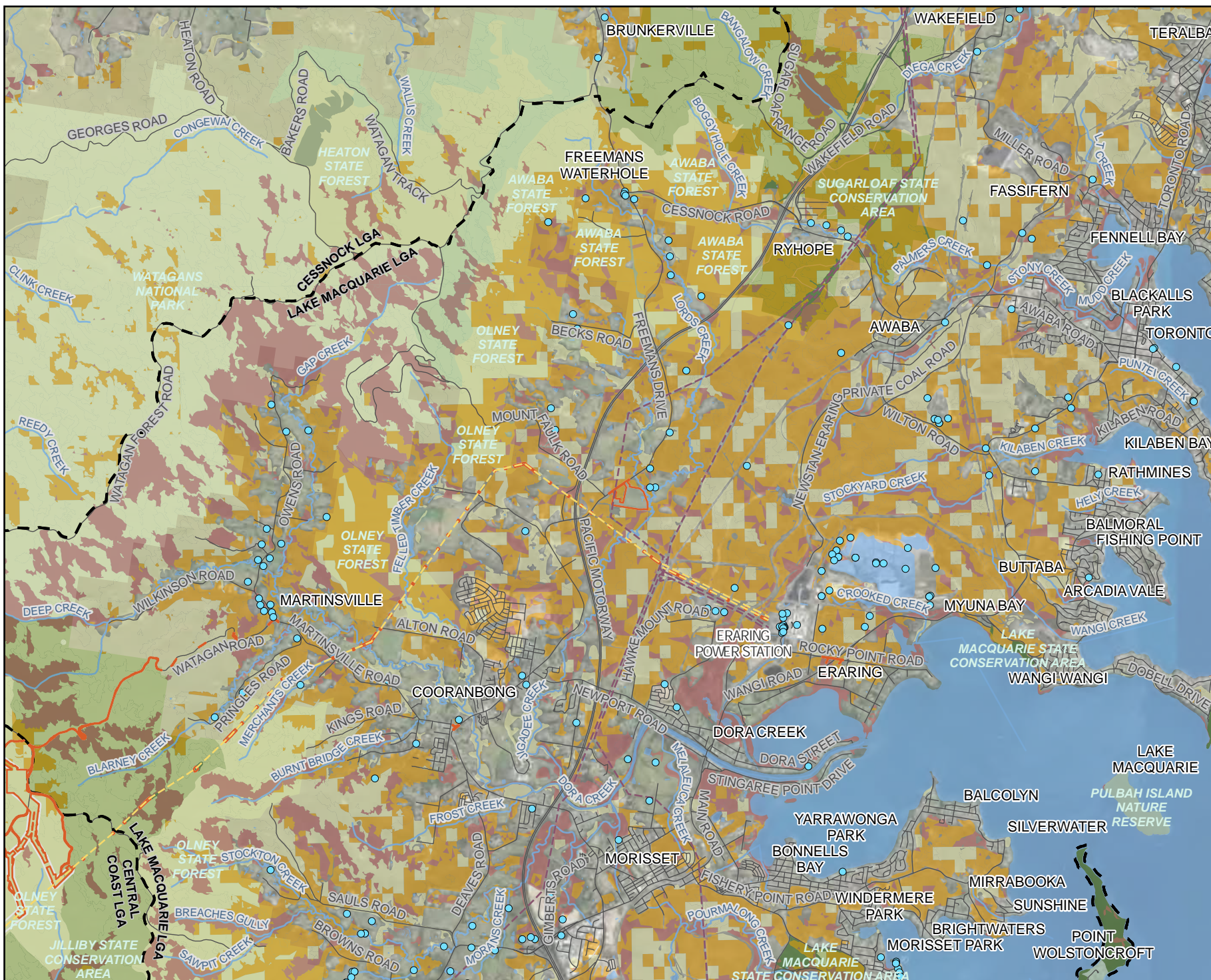
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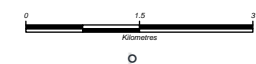
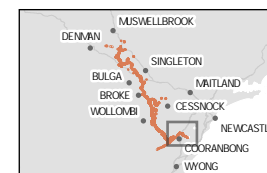
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Power station
- 330 kV transmission line
- 500 kV transmission line
- Named watercourse
- Waterbody
- NPWS reserve
- State conservation area
- Flora reserve
- State forest
- Local government area
- Registered groundwater wells
- High potential GDE
- Moderate potential GDE
- Low potential GDE



Coordinate system: GDA2020 MGA Zone 56

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Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity during detailed design
Page 1 of 14



- Legend**
- Biodiversity study area
 - Subject land
 - Existing environment
 - Road
 - Power station
 - 330 kV transmission line
 - 500 kV transmission line
 - Named watercourse
 - Waterbody
 - Local government area
 - Avoidance micro-siting areas
 - Threatened species habitats and connectivity
 - Central Hunter Grey Box-Ironbark Woodland TEC
 - Central Hunter Valley eucalypt forest and woodland TEC
 - Sensitive biodiversity area (flora)
 - *Diuris tricolor*
 - *Eucalyptus camaldulensis*



0 0.25 0.5 1.0
Kilometres



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



1:40,000 Date: 15/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW
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Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity during detailed design
Page 2 of 14



- Legend**
- Biodiversity study area
 - Subject land
 - Existing environment
 - Road
 - 330 kV transmission line
 - Named watercourse
 - Waterbody
 - Local government area
 - Avoidance micro-siting areas
 - Threatened species habitats and connectivity
 - Central Hunter Valley eucalypt forest and woodland TEC
 - Hunter Floodplain Red Gum Woodland TEC
 - Eucalyptus camandulensis*
 - Sensitive biodiversity area (flora)
 - Cymbidium canaliculatum*
 - Eucalyptus camaldulensis*



0 0.25 0.5 1.0
Kilometres



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

1:40,000 Date: 15/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP

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Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity during detailed design
Page 3 of 14



Legend

- Legend**
- Biodiversity study area
 - Subject land
 - Existing environment
 - Road
 - 330 kV transmission line
 - Named watercourse
 - Waterbody
 - Local government area
 - Avoidance micro-siting areas
 - Threatened species habitats and connectivity
 - Central Hunter Valley eucalypt forest and woodland TEC
 - Hunter Floodplain Red Gum Woodland TEC
 - Warkworth Sands Woodland of the Hunter Valley TEC
 - Eucalyptus camadulensis*
 - Sensitive biodiversity area (Warkworth Sands Woodland)
 - Sensitive biodiversity area (flora)
 - Eucalyptus camadulensis*



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

GDA 1:40,000 Date: 15/07/2025

1.40,000 Date: 15/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP

World Imagery: Maxar

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Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity during detailed design
Page 4 of 14

Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- Local government area
- Avoidance micro-siting areas
- Threatened species habitats and connectivity
- Central Hunter Valley eucalypt forest and woodland TEC
- Hunter Floodplain Red Gum Woodland TEC
- Warkworth Sands Woodland of the Hunter Valley TEC
- Sensitive biodiversity area (Warkworth Sands Woodland)



0 0.25 0.5 1.0
Kilometres



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



1:40,000 Date: 15/07/2025

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World Imagery: Maxar

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Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity
Page 5 of 14

- Legend**
- Biodiversity study area
 - Subject land
 - Existing environment
 - Road
 - 330 kV transmission line
 - Named watercourse
 - Waterbody
 - Local government area
 - Swift parrot important areas
 - Avoidance micro-siting areas
 - Threatened species habitats and connectivity
 - Central Hunter Valley eucalypt forest and woodland TEC



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



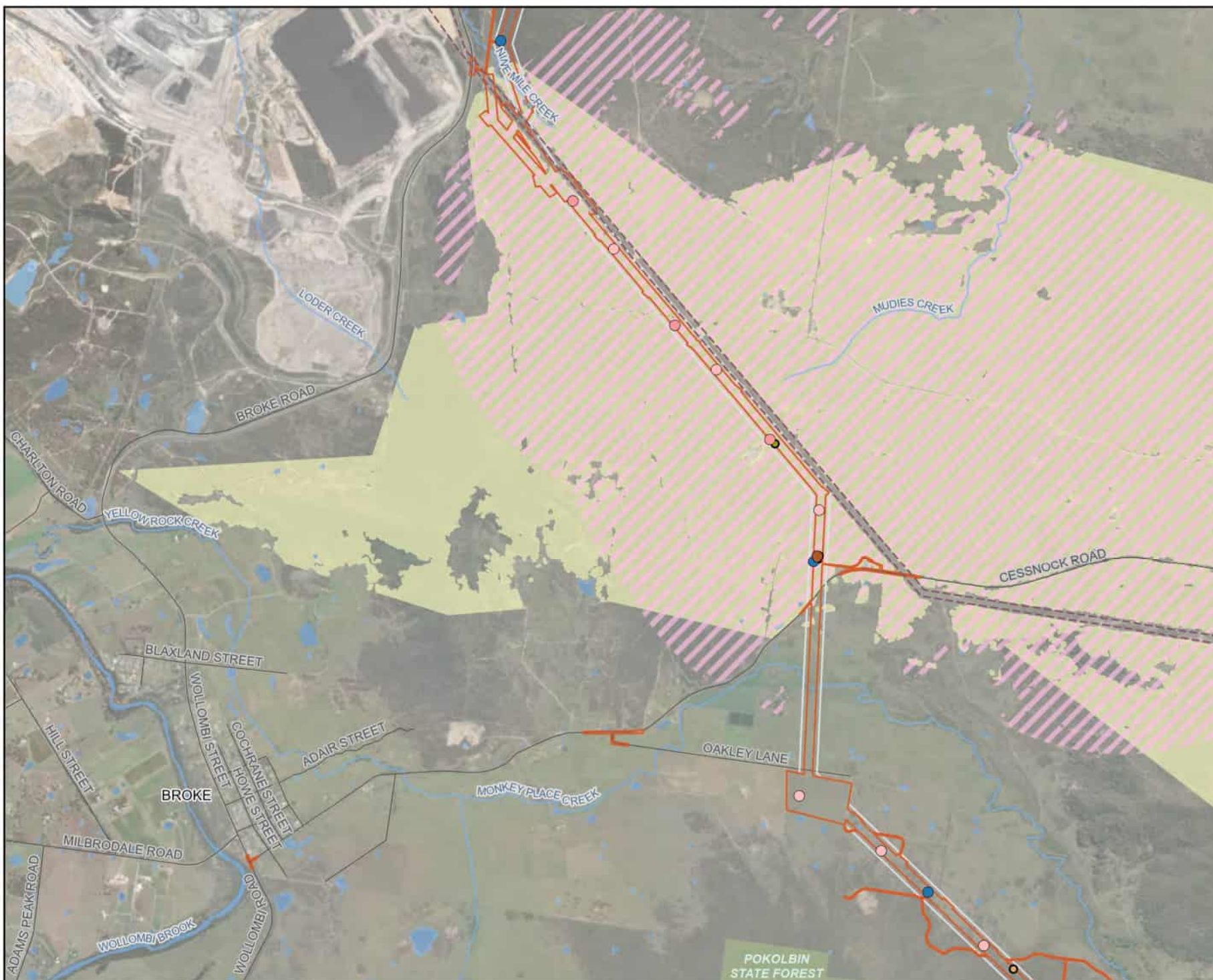
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Data sources: EMM, Beca, Geoscience Australia, NSW
State Government, WSP
World Imagery: Maxar

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Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity during detailed design
Page 6 of 14



- Legend**
- Biodiversity study area
 - Subject land
 - Existing environment
 - Road
 - 330 kV transmission line
 - Named watercourse
 - Waterbody
 - State forest
 - Local government area
 - Swift parrot important areas
 - Regent honeyeater important areas
 - Avoidance micro-siting areas
 - Threatened species habitats and connectivity
 - Central Hunter Valley eucalypt forest and woodland TEC
 - Lower Hunter Spotted Gum Ironbark Forest TEC
 - Pterostylis gibbosa*
 - Sensitive biodiversity area (flora)
 - Cymbidium canaliculatum*
 - Prostanthera cinctolifera*
 - Pterostylis gibbosa*
 - Sensitive biodiversity area (riparian ground protection)



0 0.25 0.5 1.0
Kilometres



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



1:40,000 Date: 15/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP

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Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity
Page 7 of 14



Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity during detailed design
Page 8 of 14



Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- Flora reserve
- State forest
- Local government area
- Regent honeyeater important areas
- Avoidance micro-siting areas
- Threatened species habitats and connectivity
- Prostanthera cineolifera*
- Sensitive biodiversity area (flora)
- Brachyscome brownii*
- Prostanthera cineolifera*
- Sensitive biodiversity area
- (*Rhodamnia rubescens*)
- Sensitive biodiversity area (amphibians)
- Red-crowned Toadlet



0 0.25 0.5
Kilometres



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

1:40,000 Date: 15/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW
State Government, WSP
World Imagery: Maxar

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Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity during detailed design
Page 9 of 14



- Legend**
- Biodiversity study area
 - Subject land
 - Existing environment
 - Road
 - Named watercourse
 - Waterbody
 - NPWS reserve
 - Flora reserve
 - State forest
 - Local government area
 - Swift parrot important areas
 - Regent honeyeater important areas
 - Avoidance micro-siting areas
 - Threatened species habitats and connectivity
 - River-Flat Eucalypt Forest on Coastal Floodplains TEC
 - Rhodamnia rubescens*
 - Sensitive biodiversity area (flora)
 - Senna acclinis*
 - Sensitive biodiversity area (*Rhodamnia rubescens*)
 - Sensitive biodiversity area (riparian ground protection)
 - Sensitive biodiversity area (amphibians)
 - Red-crowned Toadlet



0 0.25 0.5 1.0
Kilometres



Coordinate system: GDA2020 MGA Zone 56

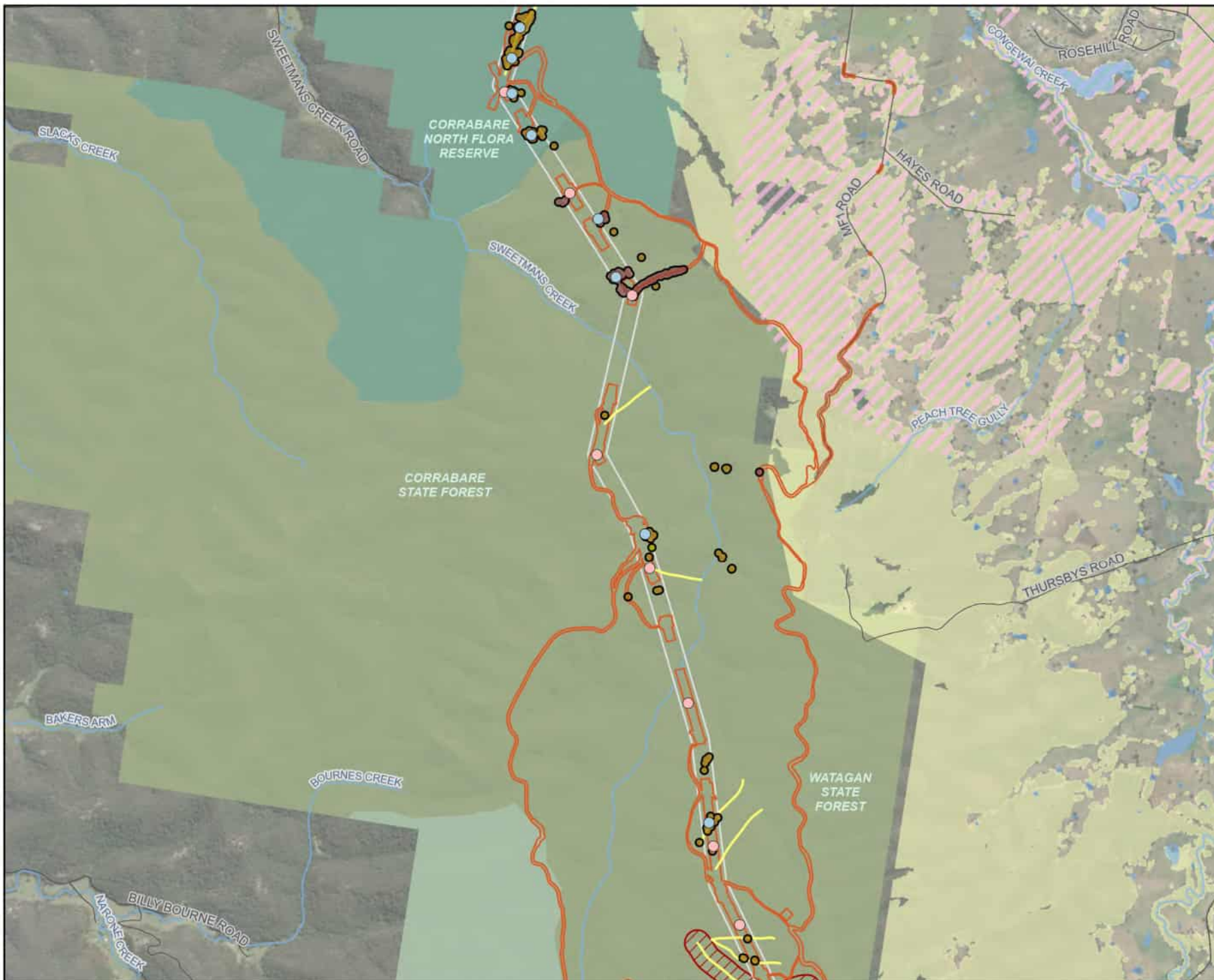
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Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
World Imagery: Maxar

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Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity during detailed design
Page 10 of 14



- Legend**
- Biodiversity study area
 - Subject land
 - Existing environment
 - Road
 - Named watercourse
 - Waterbody
 - NPWS reserve
 - Flora reserve
 - State forest
 - Local government area
 - Swift parrot important areas
 - Regent honeyeater important areas
 - Avoidance micro-siting areas
 - Threatened species habitats and connectivity
 - *Rhodamnia rubescens*
 - Sensitive biodiversity area (flora)
 - *Cymbidium canaliculatum*
 - *Melaleuca groveana*
 - Sensitive biodiversity area (*Rhodamnia rubescens*)
 - Sensitive biodiversity area (riparian ground protection)
 - Sensitive biodiversity area (amphibians)
 - Red-crowned Toadlet



0 0.25 0.5 1.0
Kilometres



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

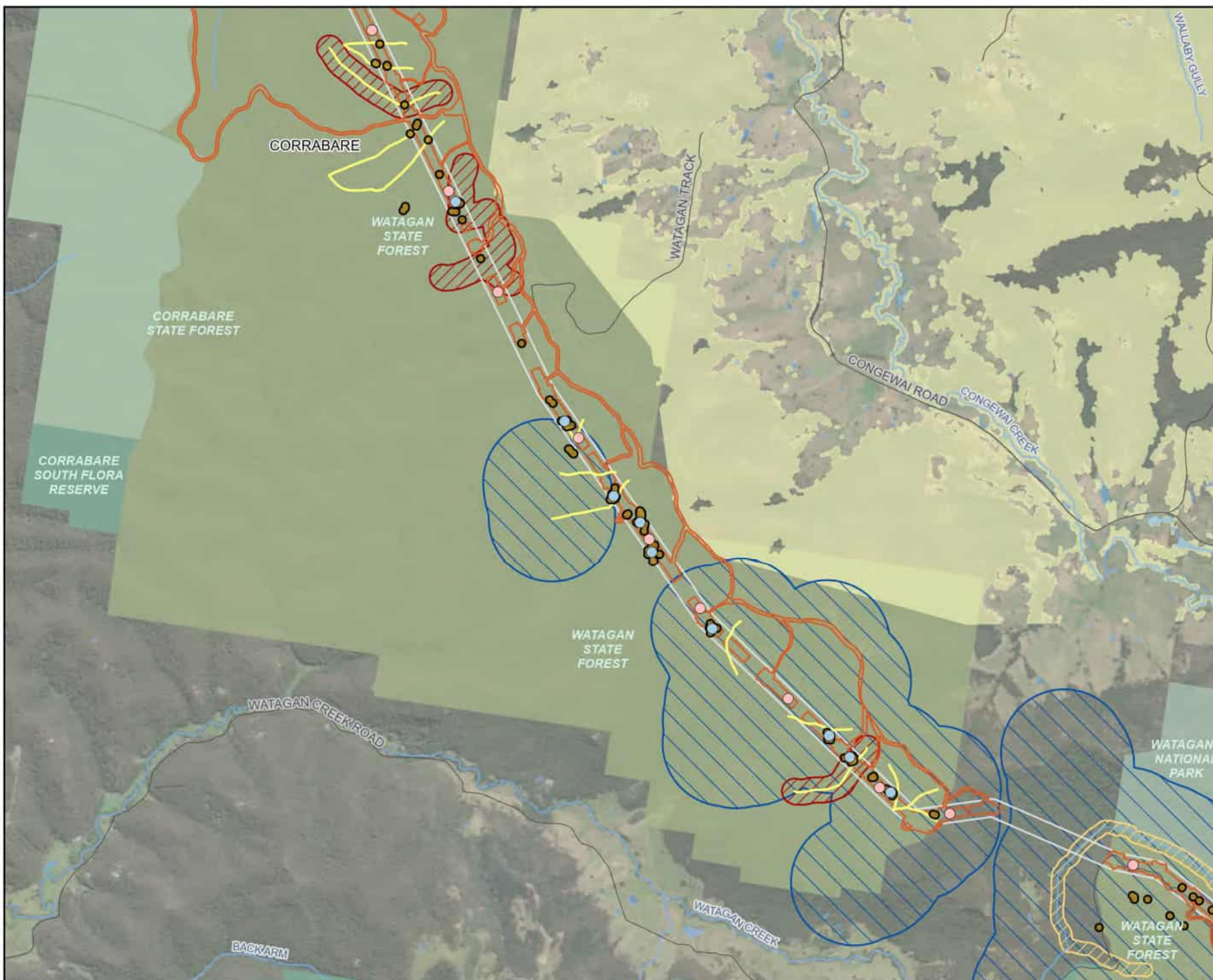


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Data sources: EMM, Beca, Geoscience Australia, NSW
State Government, WSP
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Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity during detailed design
Page 11 of 14



- Legend**
- Biodiversity study area
 - Subject land
 - Existing environment
 - Road
 - Named watercourse
 - Waterbody
 - NPWS reserve
 - Flora reserve
 - State forest
 - Local government area
 - Regent honeyeater important areas
 - Avoidance micro-siting areas
 - Threatened species habitats and connectivity
 - Rhodamnia rubescens*
 - Sensitive biodiversity area (*Rhodamnia rubescens*)
 - Sensitive biodiversity area (riparian ground protection)
 - Sensitive biodiversity area (amphibians)
 - Giant Barred Frog
 - Red-crowned Toadlet
 - Stuttering Frog



0 0.25 0.5 1.0
Kilometres



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



1:40,000 Date: 15/07/2025
Data sources: EMM, Beca, Geoscience Australia, NSW
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Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity during detailed design
Page 12 of 14

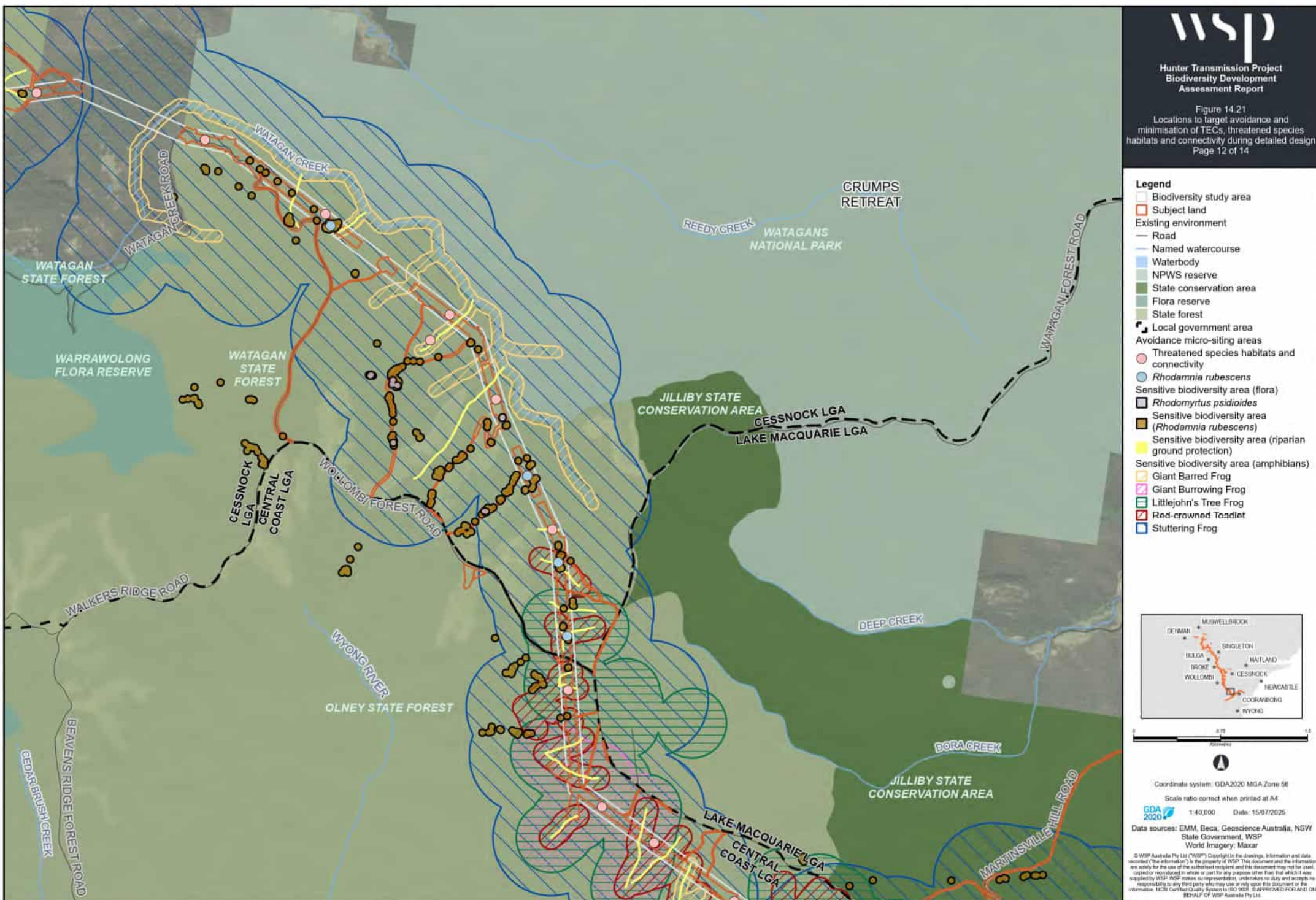
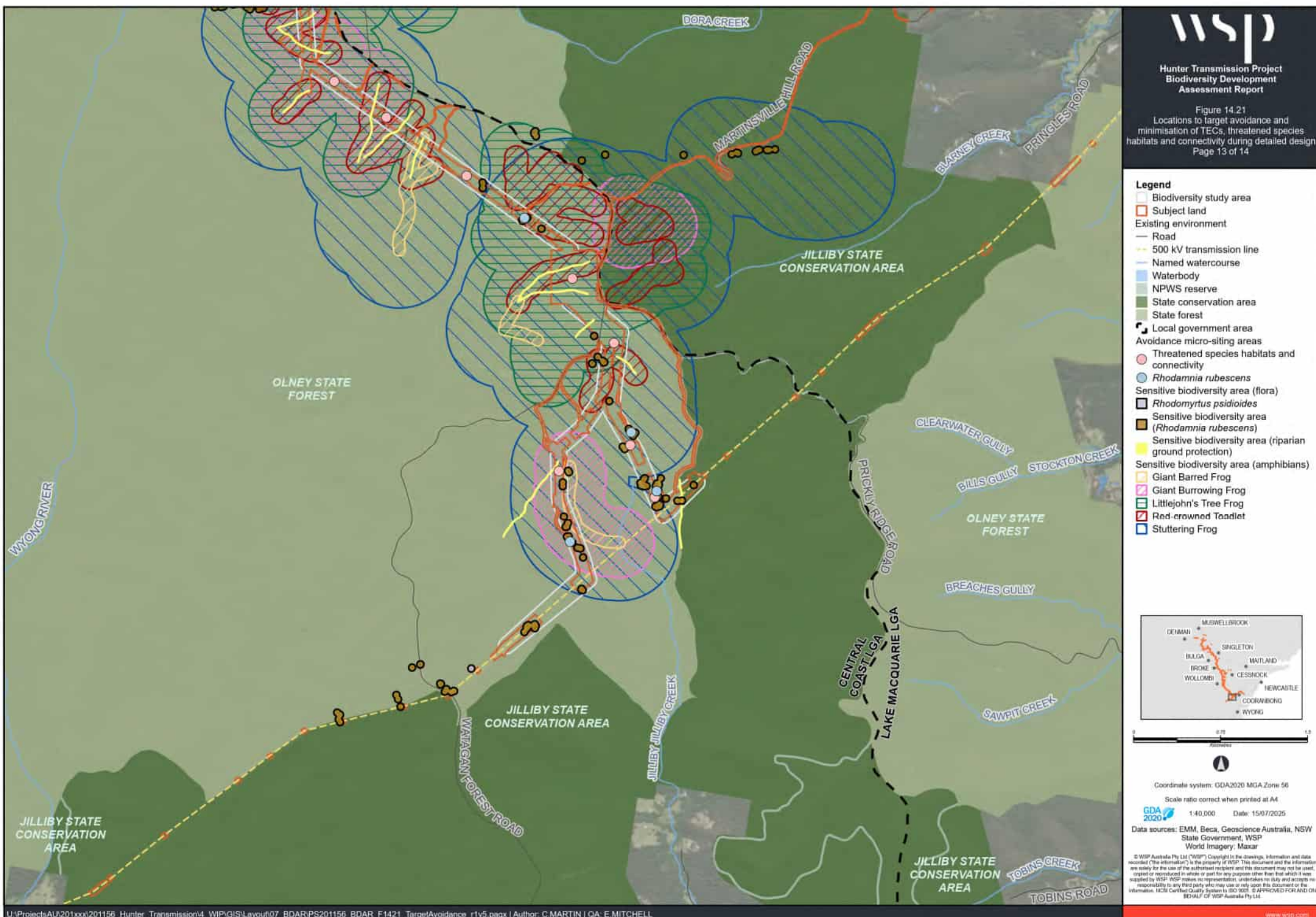


Figure 14.21
Locations to target avoidance and
minimisation of TECs, threatened species
habitats and connectivity during detailed design
Page 13 of 14





- Legend**
- Biodiversity study area
 - Subject land
 - Existing environment
 - Road
 - - 330 kV transmission line
 - - 500 kV transmission line
 - - Named watercourse
 - Waterbody
 - NPWS reserve
 - Flora reserve
 - State forest
 - Local government area
 - Swift parrot important areas
 - Sensitive biodiversity area (flora)
 - Genoplesium insigne
 - Grevillea parviflora subsp. parviflora
 - Tetratheca juncea
 - Sensitive biodiversity area (amphibians)
 - Giant Barred Frog



0 0.25 0.5
Kilometres



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

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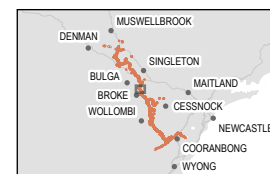
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Figure 14.22
Regent Honeyeater and Swift Parrot
important habitat assessments
Page 1 of 8

Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- Local government area
- Swift Parrot important habitat
- Regent Honeyeater important habitat



0 0.25 0.5
Kilometres



Coordinate system: GDA2020 MGA Zone 56

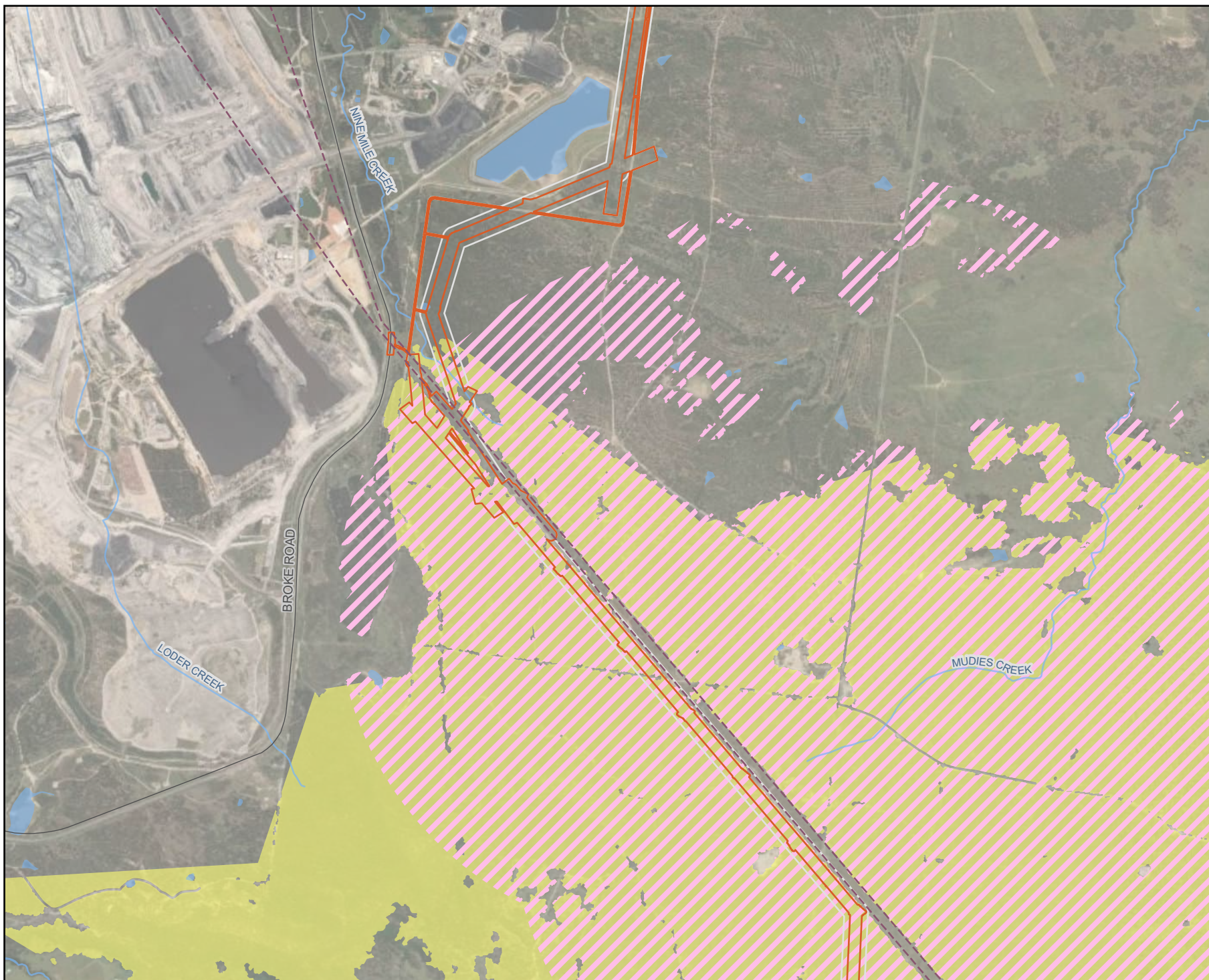
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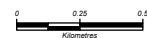
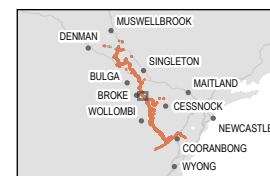
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- State forest
- Local government area
- Swift Parrot important habitat
- Regent Honeyeater important habitat



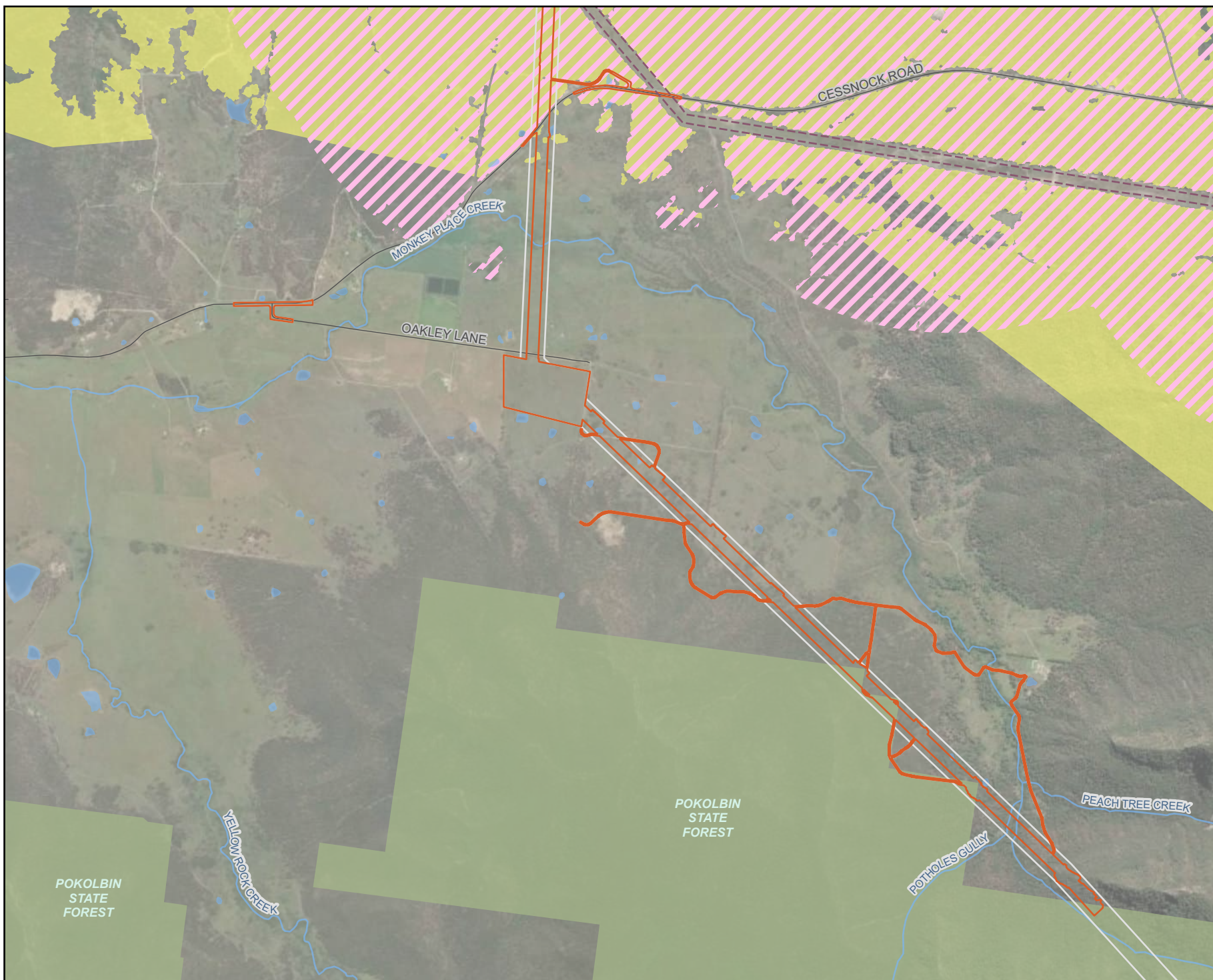
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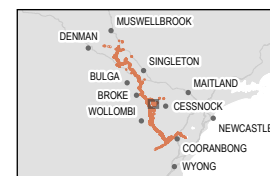
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- State forest
- Local government area
- Swift Parrot important habitat
- Regent Honeyeater important habitat



0 0.25 0.5
Kilometres



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



1:30,000 Date: 15/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW
State Government, WSP
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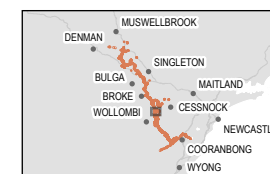
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Figure 14.22
Regent Honeyeater and Swift Parrot
important habitat assessments
Page 4 of 8

Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- Flora reserve
- State forest
- Local government area
- Regent Honeyeater important habitat



0 0.25 0.5
Kilometres



Coordinate system: GDA2020 MGA Zone 56

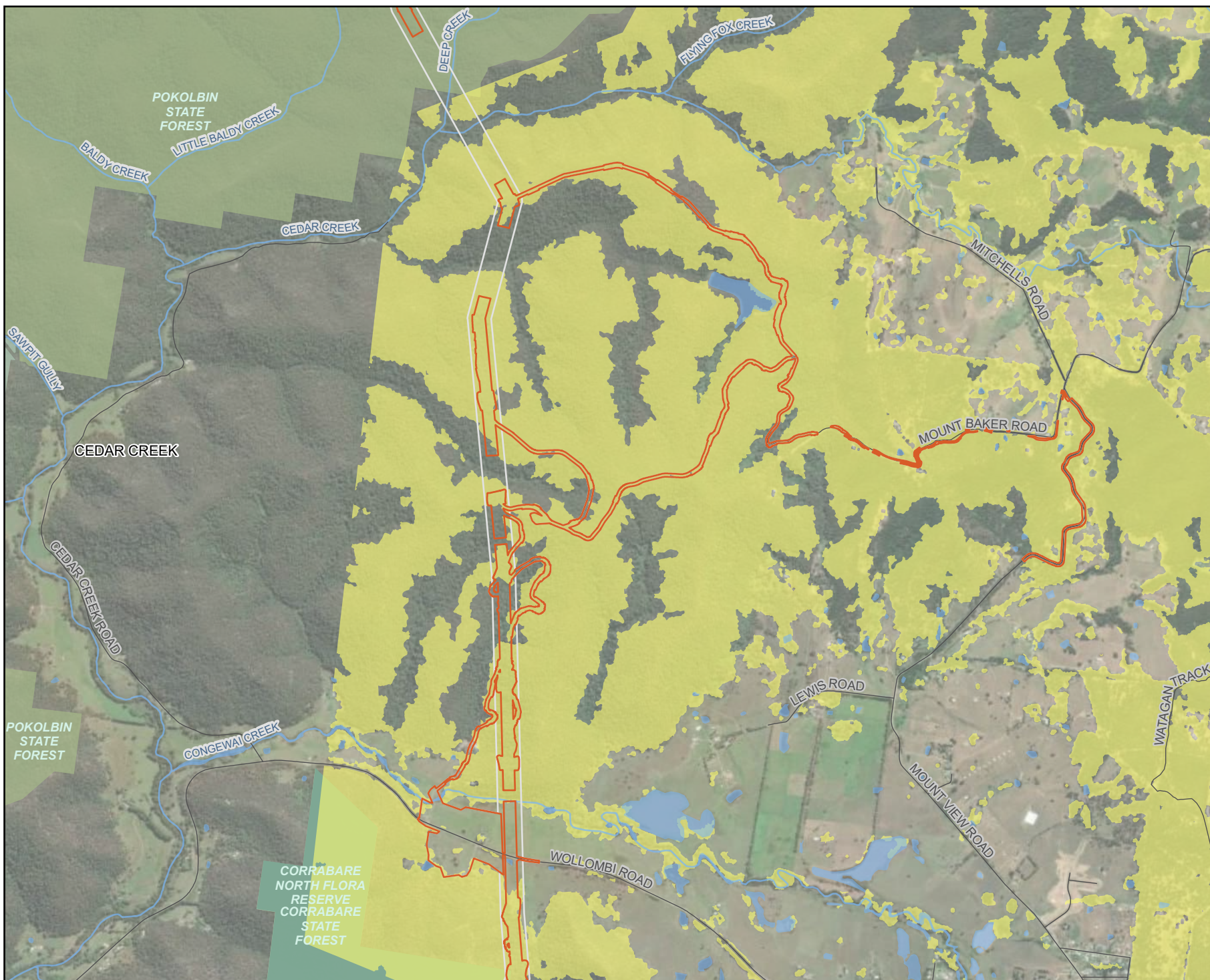
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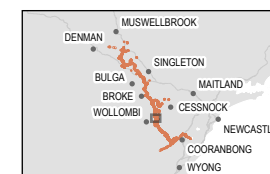
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- Flora reserve
- State forest
- Local government area
- Swift Parrot important habitat
- Regent Honeyeater important habitat



Coordinate system: GDA2020 MGA Zone 56

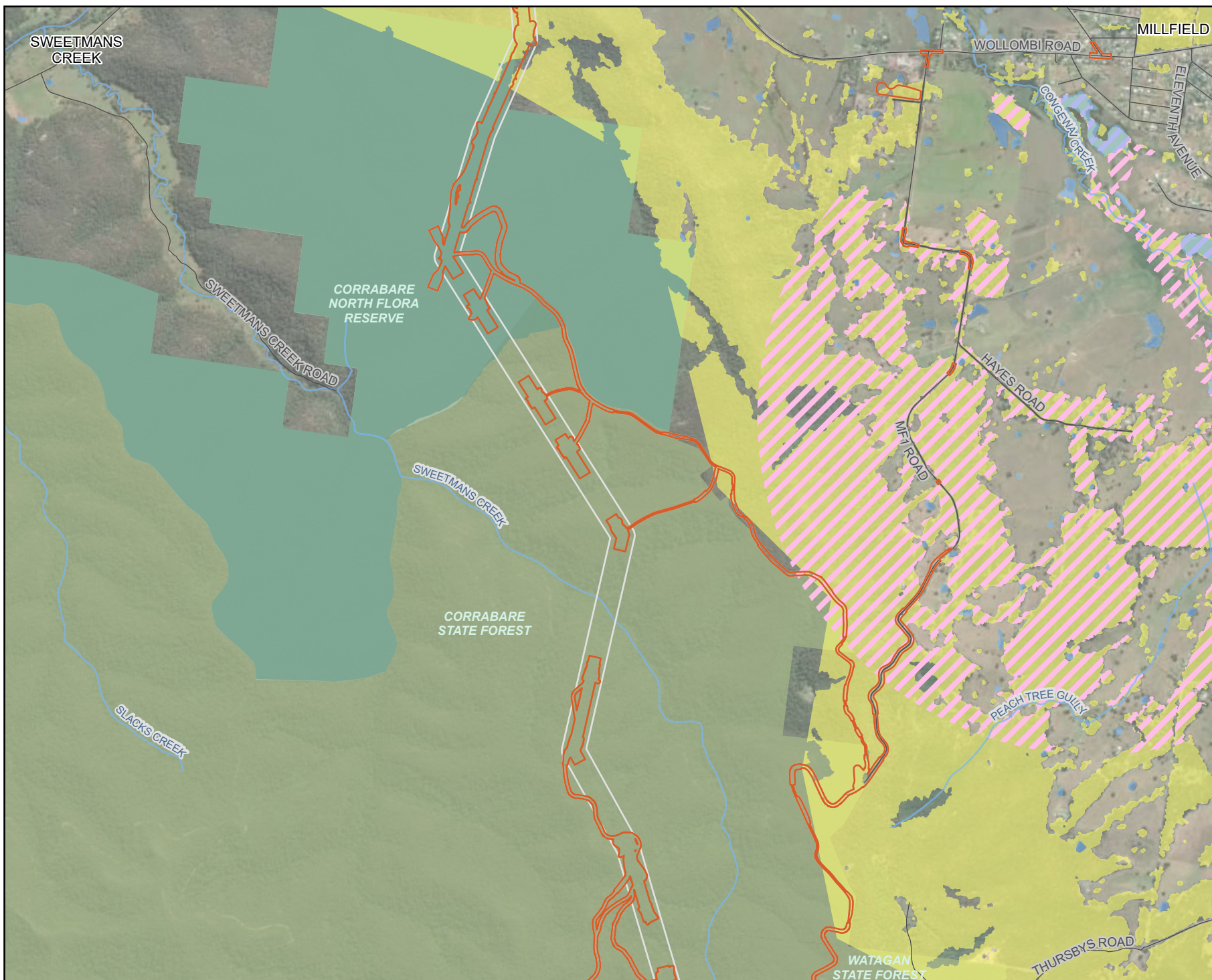
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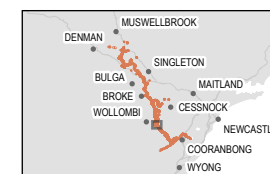
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- Flora reserve
- State forest
- Local government area
- Swift Parrot important habitat
- Regent Honeyeater important habitat



0 0.25 0.5
Kilometres



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



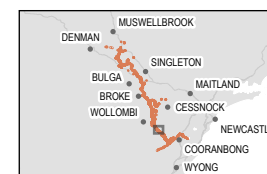
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- State forest
- Local government area
- Regent Honeyeater important habitat



Coordinate system: GDA2020 MGA Zone 56

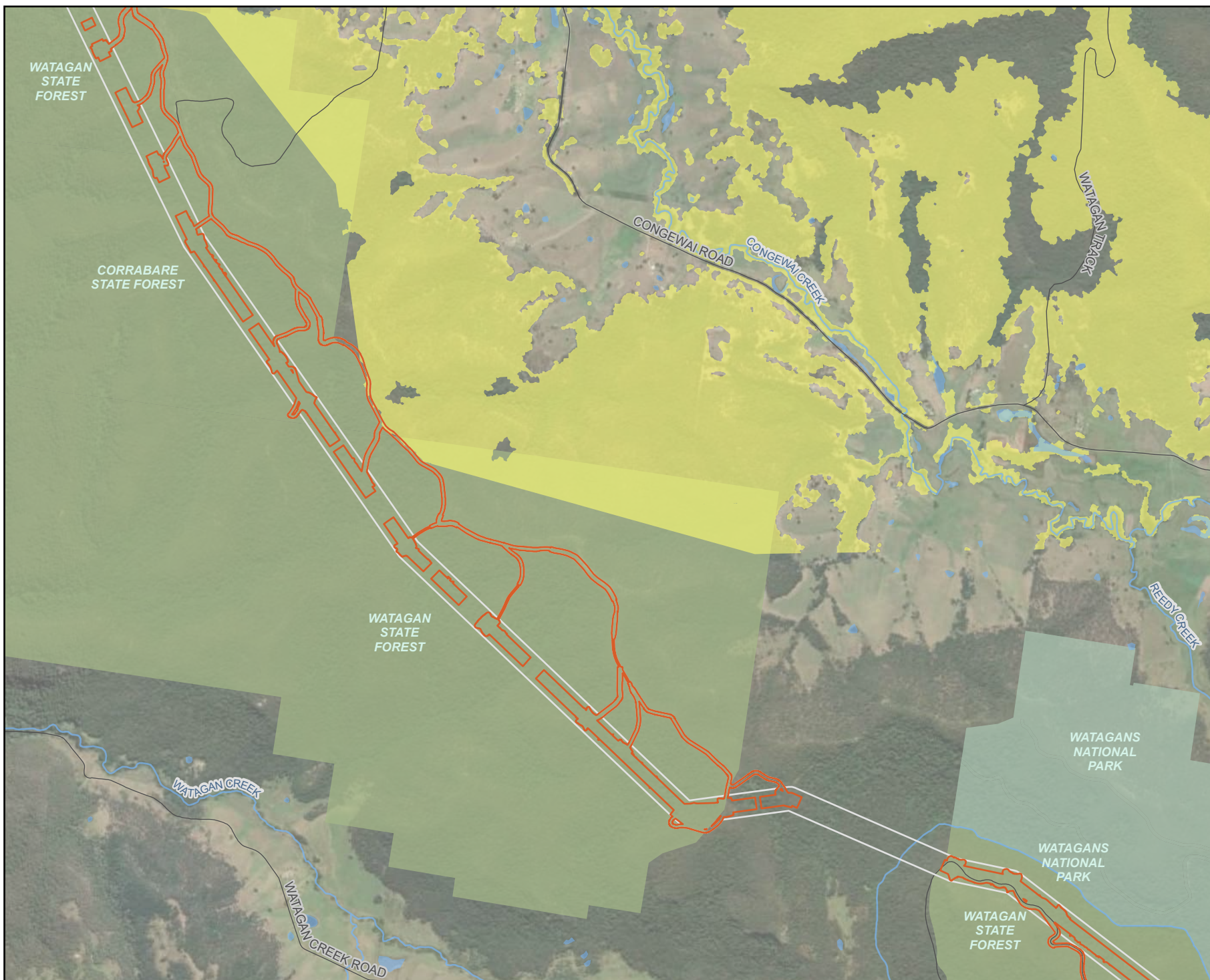
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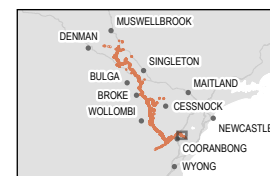
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Power station
- 330 kV transmission line
- 500 kV transmission line
- Named watercourse
- Waterbody
- State forest
- Local government area
- Swift Parrot important habitat



0 0.25 0.5
Kilometres



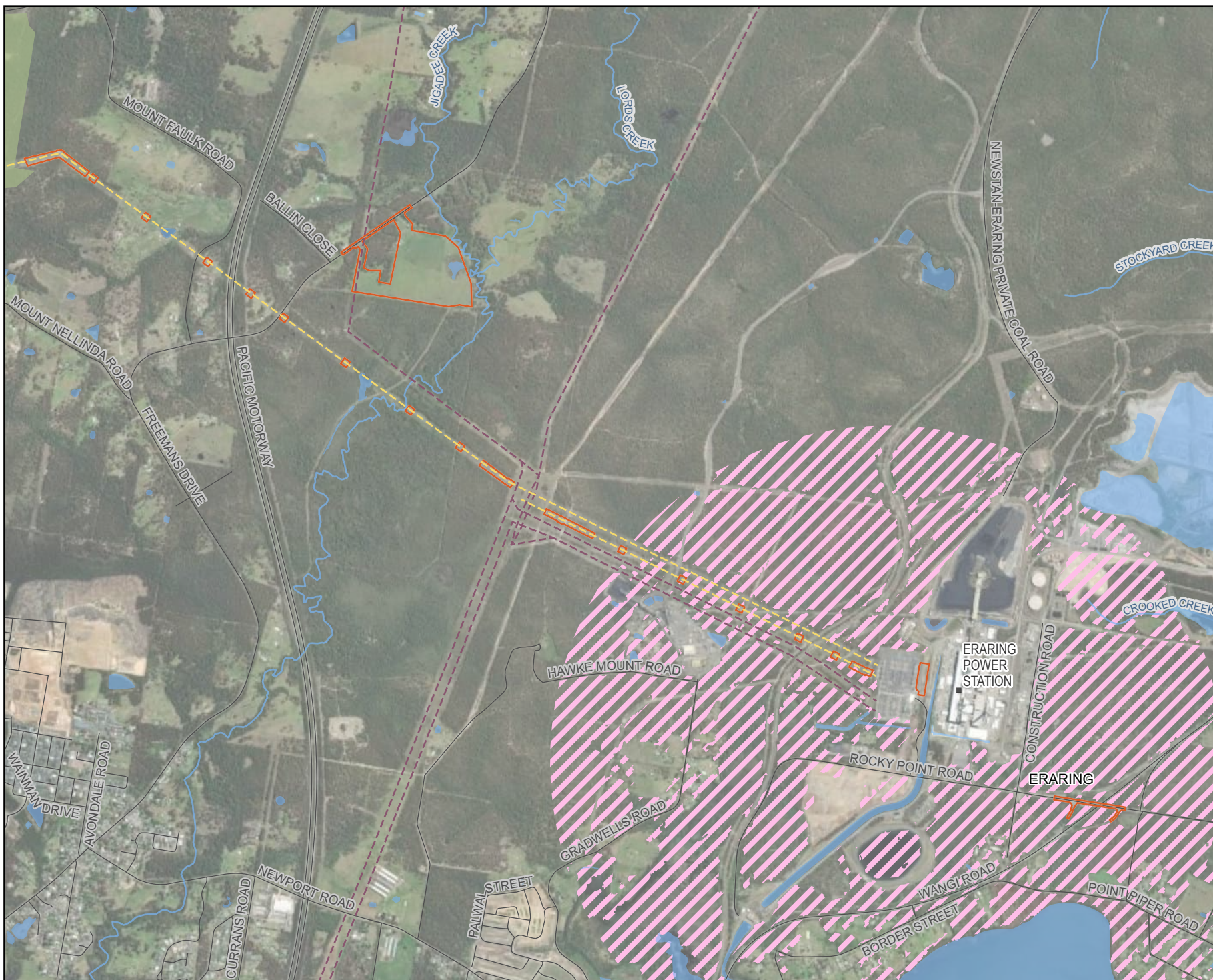
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Legend

Subject land

Site A Key areas of avoidance

Existing environment

— Road

⌋ Power station

--- 330 kV transmission line

--- 500 kV transmission line

— River

Waterbody

NPWS reserve

State conservation area

State forest

Previous alignment options

Project study area (22/05/2023)

Construction easement (19/10/2023)

Construction compound design (18/03/2024)

Disturbance footprint (02/04/2024)

Site A— Hunter Valley: minimising impacts on high-quality remnant Central Hunter Valley eucalypt forest by directing the project towards derived and disturbed grassland and low-quality vegetation areas.

Site B— Hunter Valley: minimising impacts on high-quality remnant Warkworth Sands Woodland.



Coordinate system: GDA2020 MGA Zone 56
Scale ratio correct when printed at A4



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Legend

Subject land

Site A Key areas of avoidance

Existing environment

— Road

--- 330 kV transmission line

— River

Waterbody

NPWS reserve

State conservation area

Flora reserve

State forest

Previous alignment options

Project study area (22/05/2023)

Construction easement (19/10/2023)

Construction compound design (18/03/2024)

Disturbance footprint (02/04/2024)

Site C— Singleton Military Area: avoiding further fragmentation through collocation with existing transmission lines in areas of important Regent Honeyeater and Swift Parrot habitat.

Site D— Pokolbin State Forest: realignment to avoid the significant Brush-tailed Rock-wallaby, Microbat and threatened flora populations.

Site E— Pokolbin State Forest: realignment to avoid the significant Brush-tailed Rock-wallaby, Microbat and threatened flora populations.

Site F— Corrabare State Forest: realignment to maximise no clearing zones and valley spanning.

Site G— Corrabare State Forest: realignment to avoid the SAI Sooty Owl Breeding location.



Coordinate system: GDA2020 MGA Zone 56
Scale ratio correct when printed at A4



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Legend

Subject land

Site A Key areas of avoidance

Existing environment

— Road

⌋ Power station

--- 330 kV transmission line

--- 500 kV transmission line

— River

Waterbody

NPWS reserve

State conservation area

Flora reserve

State forest

Previous alignment options

Project study area (22/05/2023)

Construction easement
(19/10/2023)

Construction compound design
(18/03/2024)

Disturbance footprint
(02/04/2024)

Proposed Watagan substation
option (16/02/2024)

Site H— Watagan State Forest:
realignment to avoid significant
Brush-tailed Rock-wallaby and
threatened frog breeding habitats,
Warrawolong Flora Reserve,
"Old growth" stands of
vegetation and rainforest.

Site I— Olney switching station
to TG 5A1/5A2 tie-ins: realignment
within Olney State Forest to minimise
extent of native vegetation clearing.

Site J— Olney 500kV switching station:
relocating the eastern switching station
from Eraring to Olney State Forest to
minimise vegetation clearing through
Olney State Forest, Jilliby State
Conservation Area, Martinsville and Eraring.



0 3 6
Kilometres

Coordinate system: GDA2020 MGA Zone 56
Scale ratio correct when printed at A4



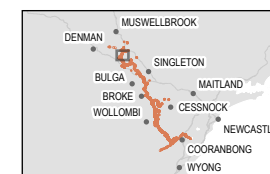
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- BC Act listed TECs
- Central Hunter Grey Box-Ironbark
- Woodland in the New South Wales
- North Coast and Sydney Basin
- Bioregions
- Hunter Floodplain Red Gum
- Woodland in the NSW North Coast
- and Sydney Basin Bioregions
- Previous alignment options
- Project study area (22/05/2023)
- Construction easement (19/10/2023)



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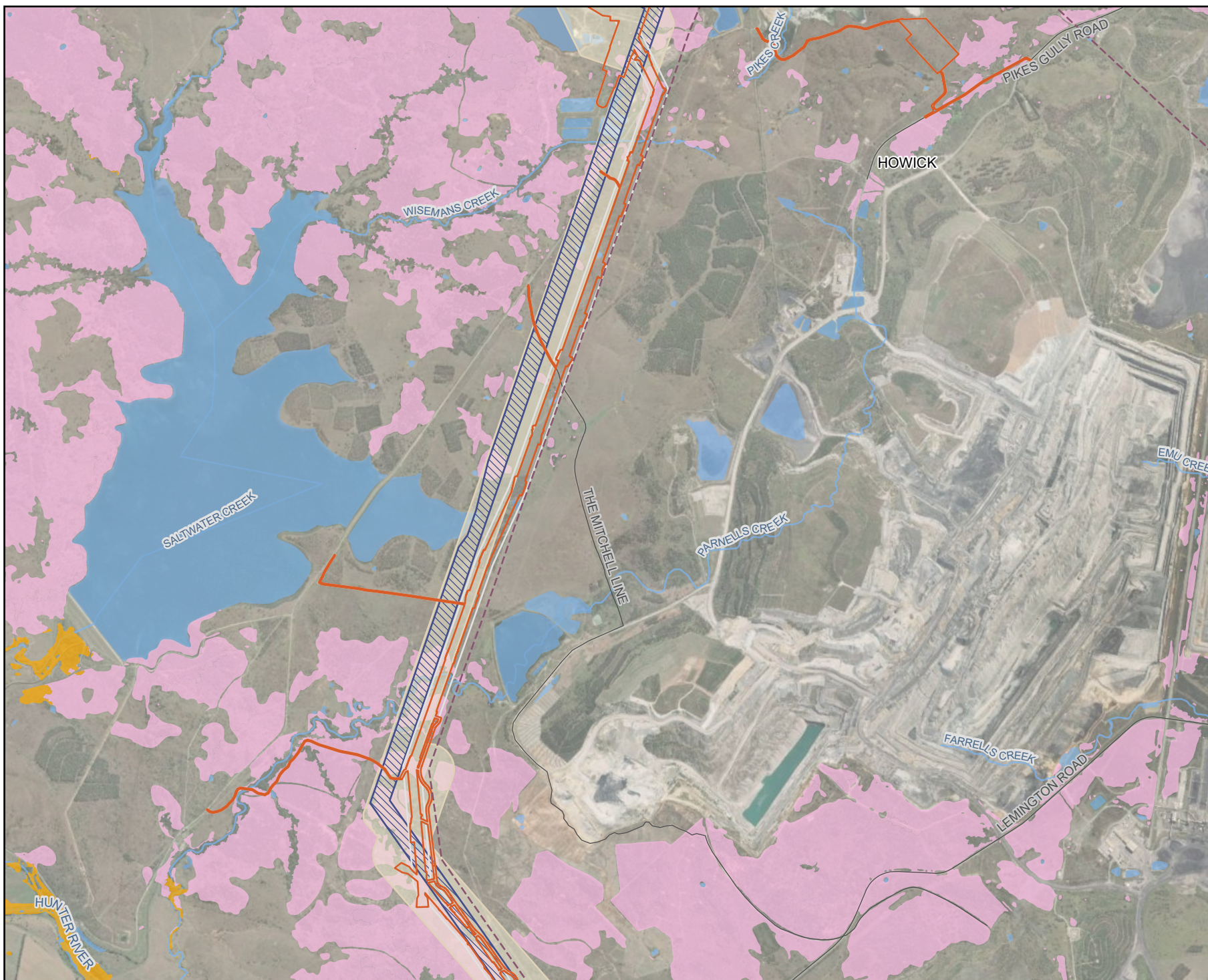
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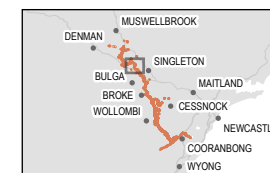
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- - - 330 kV transmission line
- Named watercourse
- Waterbody
- BC Act listed TECs
 - Central Hunter Grey Box-Ironbark
 - Woodland in the New South Wales
 - North Coast and Sydney Basin Bioregions
 - Central Hunter Ironbark-Spotted Gum-Grey Box Forest in the New South Wales North Coast and Sydney Basin Bioregions
 - Hunter Floodplain Red Gum
 - Woodland in the NSW North Coast and Sydney Basin Bioregions
 - Warkworth Sands Woodland in the Sydney Basin Bioregion
- Previous alignment options
 - Project study area (22/05/2023)
 - Construction easement (19/10/2023)



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

GDA 2020 1:60,000 Date: 16/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP

World Imagery: Earthstar Geographics

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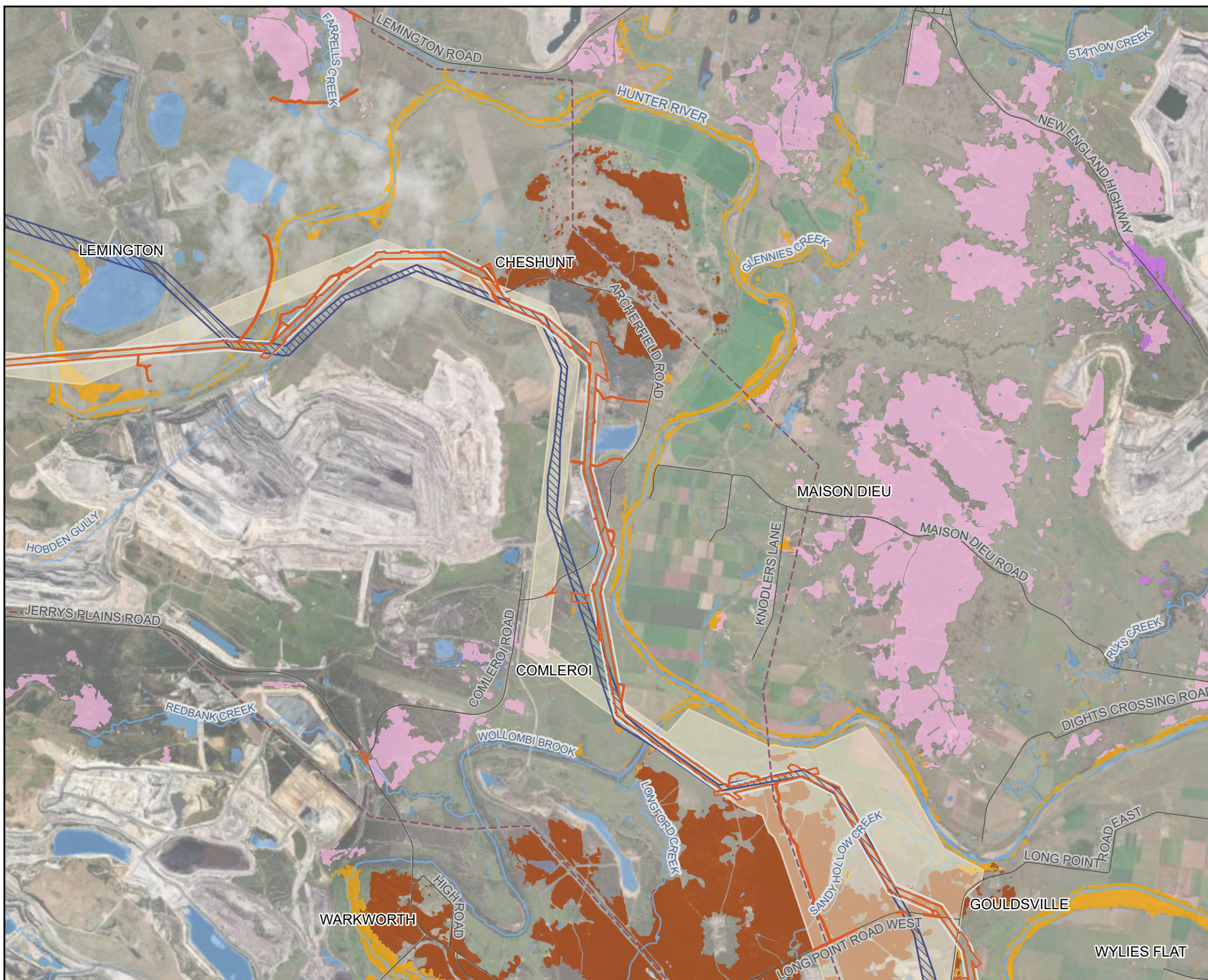
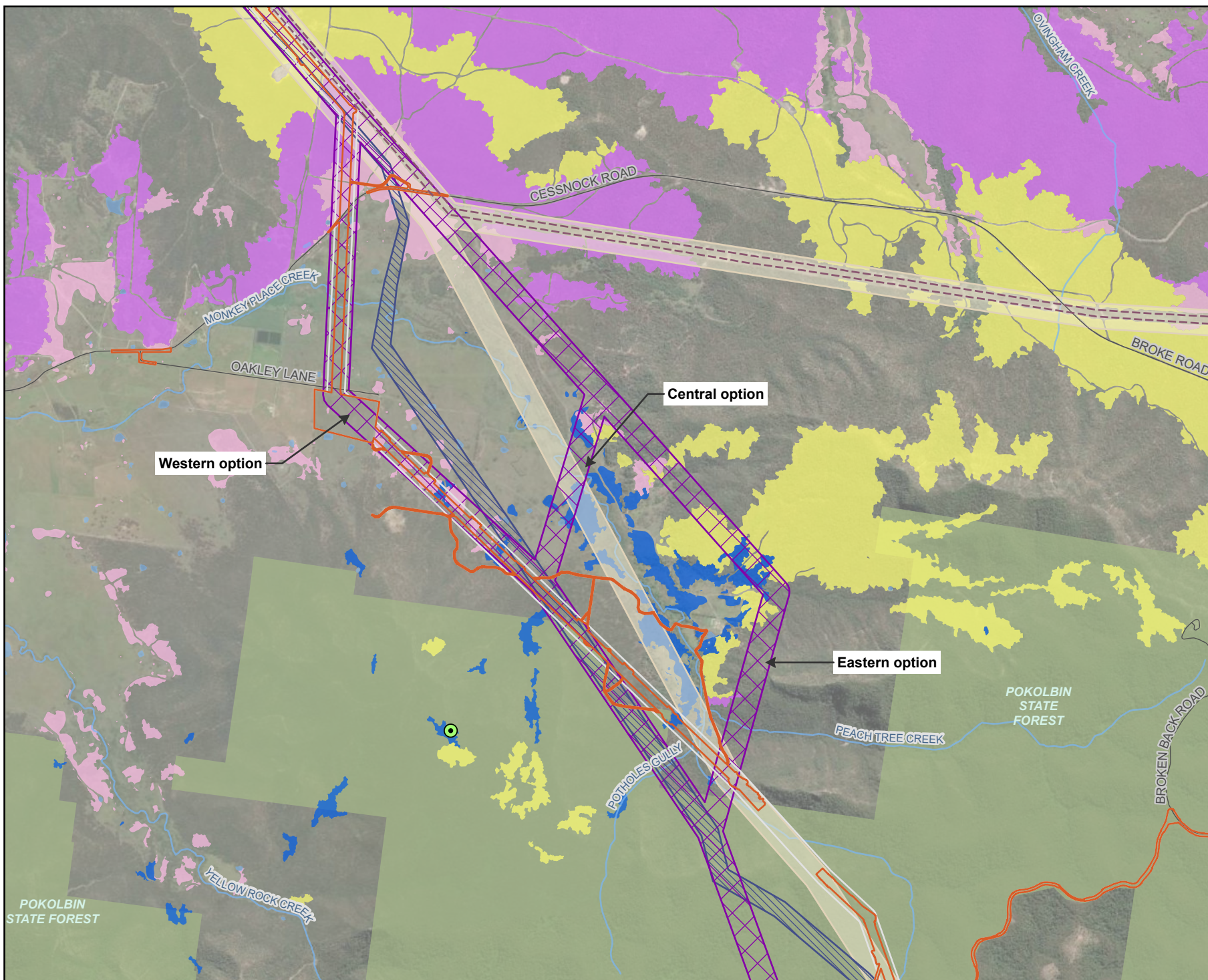
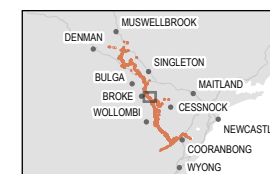


Figure 14.24
Impact avoidance detail
Site C



Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 330 kV transmission line
- Named watercourse
- Waterbody
- State forest
- Sooty Owl record (Bionet)
- BC Act listed TECs
 - Central Hunter Grey Box-Ironbark Woodland in the New South Wales North Coast and Sydney Basin Bioregions
 - Central Hunter Ironbark-Spotted Gum-Grey Box Forest in the New South Wales North Coast and Sydney Basin Bioregions
 - Lower Hunter Spotted Gum Ironbark Forest in the Sydney Basin and NSW North Coast Bioregions
 - River-Flat Eucalypt Forest on Coastal Floodplains of the New South Wales North Coast, Sydney Basin and South East Corner Bioregions
- Previous alignment options
 - Project study area (22/05/2023)
 - Disturbance footprint (02/04/2024)
 - Construction easement (19/10/2023)



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



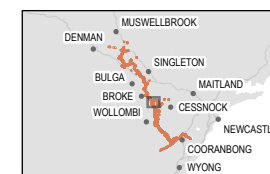
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Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
World Imagery: Earthstar Geographics

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- Flora reserve
- State forest
- Cliff lines/escarpments
- Brush-tailed Rock-wallaby record (Bionet)
- Brush-tailed Rock-wallaby record (WSP)
- Previous alignment options
- Project study area (22/05/2023)
- Disturbance footprint (02/04/2024)
- Construction easement (19/10/2023)



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

GDA 2020 1:40,000 Date: 15/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
World Imagery: Maxar

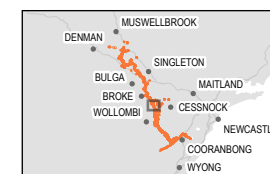
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Figure 14.24
Impact avoidance detail
Site E

Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- Flora reserve
- State forest
- Cliff lines/escarpments
- BC Act listed TECs
 - Lower Hunter Spotted Gum
 - Ironbark Forest in the Sydney Basin and NSW North Coast Bioregions
 - River-Flat Eucalypt Forest on Coastal Floodplains of the New South Wales North Coast, Sydney Basin and South East Corner Bioregions
- Previous alignment options
 - Project study area (22/05/2023)
 - Disturbance footprint (02/04/2024)
 - Construction easement (19/10/2023)



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

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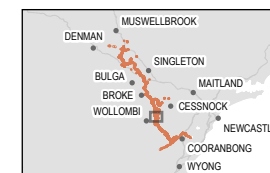
Data sources: EMM, Beca, Geoscience Australia, NSW State Government, WSP
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- Flora reserve
- State forest
- BC Act listed TECs
- Lower Hunter Spotted Gum
Ironbark Forest in the Sydney Basin
and NSW North Coast Bioregions
- River-Flat Eucalypt Forest on
Coastal Floodplains of the New
South Wales North Coast, Sydney
Basin and South East Corner
Bioregions
- Previous alignment options
- Project study area (22/05/2023)
- Disturbance footprint (02/04/2024)
- Construction easement
(19/10/2023)



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

GDA 2020 1:40,000 Date: 15/07/2025

Data sources: EMM, Beca, Geoscience Australia, NSW
State Government, WSP

World Imagery: Earthstar Geographics

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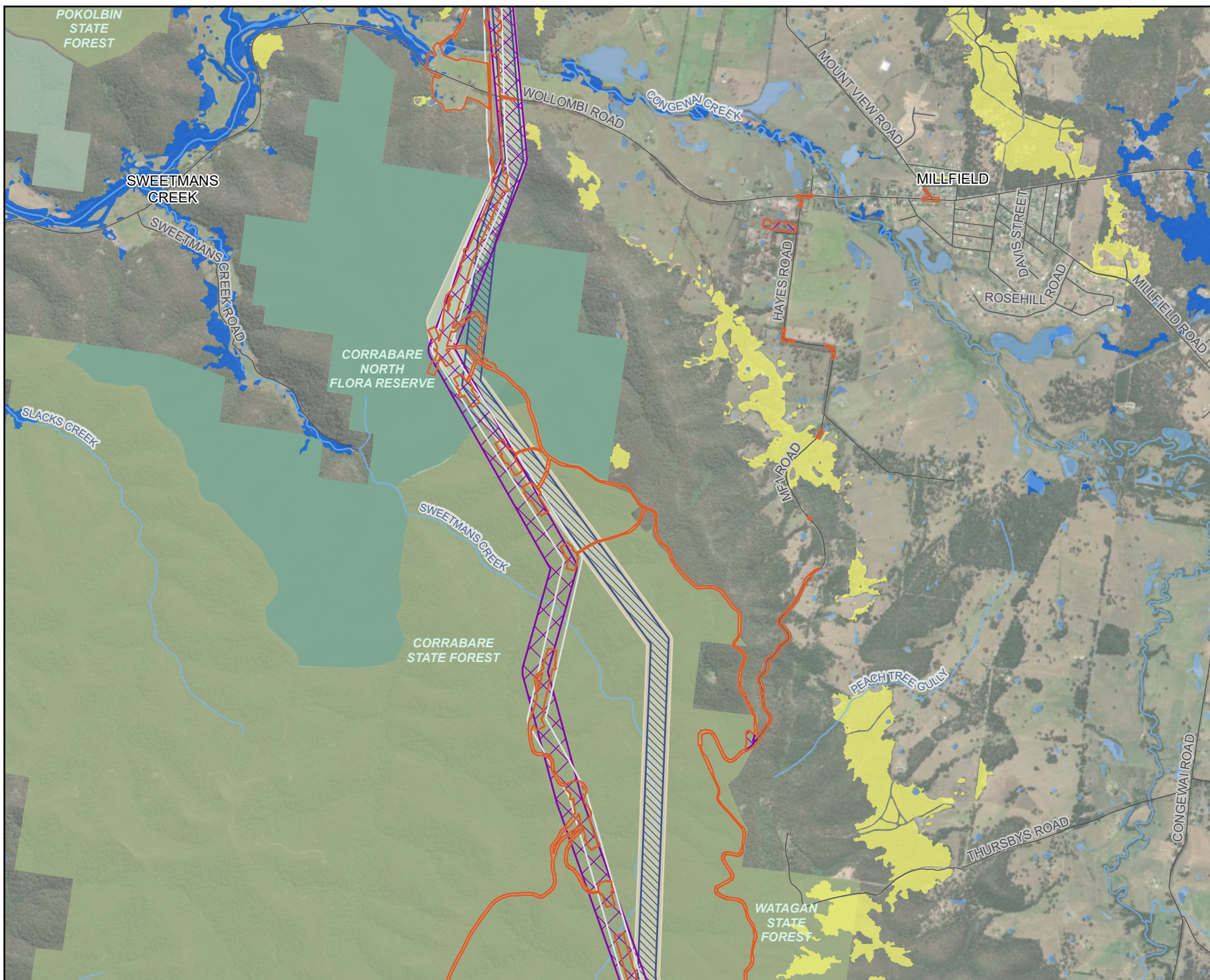
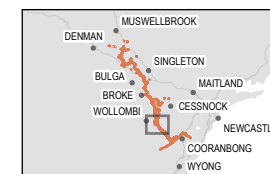


Figure 14.24
Impact avoidance detail
Site G

Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- Flora reserve
- State forest
- Sooty Owl record (Bionet)
- Sooty Owl record (WSP)
- Sooty Owl cave
- Likely Sooty Owl cave
- Previous alignment options
- Project study area (22/05/2023)
- Disturbance footprint (02/04/2024)
- Construction easement (19/10/2023)



0 0.75 1.5
Kilometres



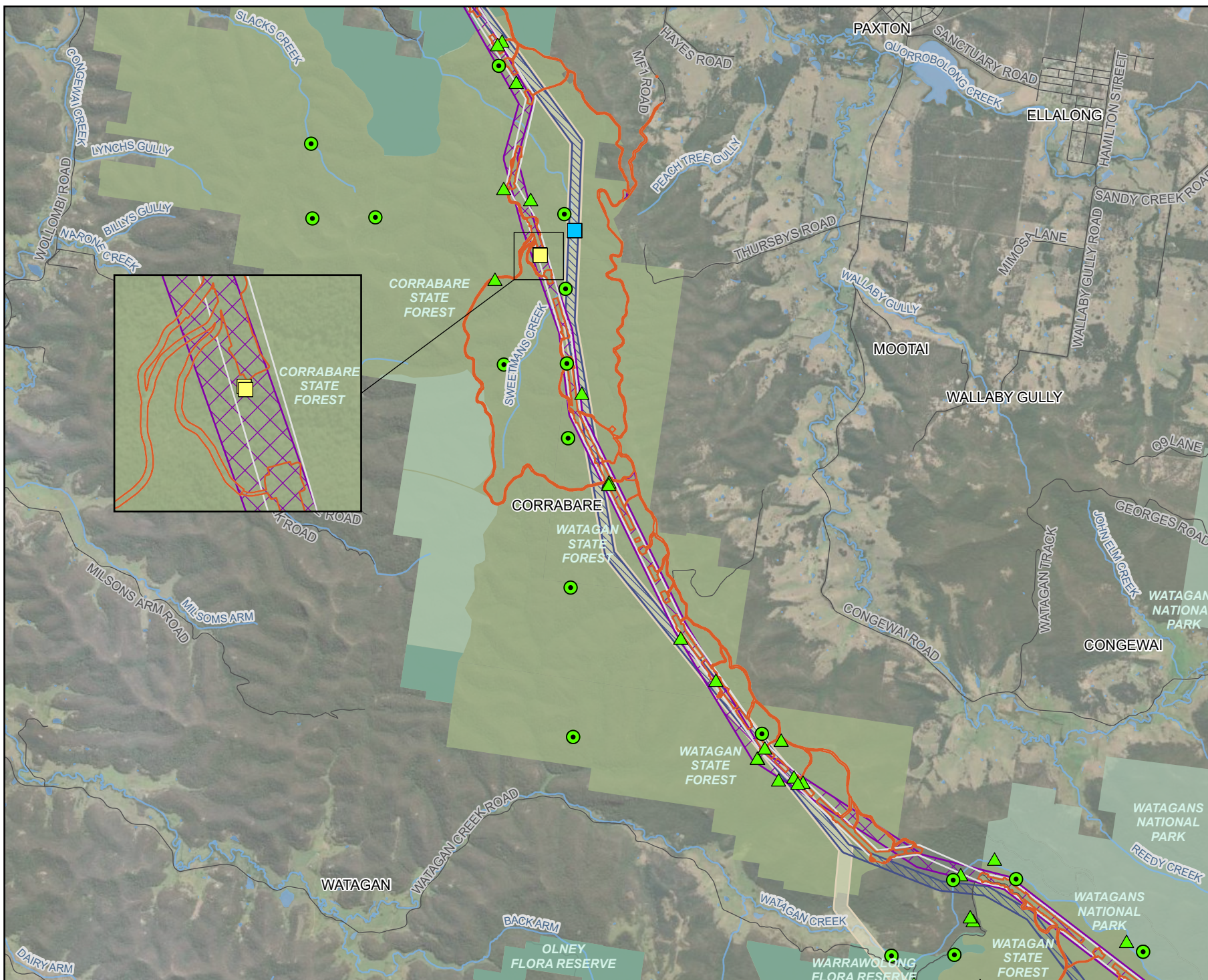
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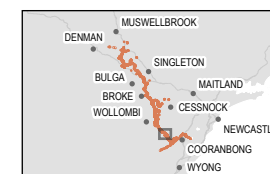
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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Named watercourse
- Waterbody
- NPWS reserve
- State conservation area
- Flora reserve
- State forest
- Cliff lines/escarpments
- Brush-tailed Rock-wallaby record (Bionet)
- Brush-tailed Rock-wallaby record (WSP)
- Previous alignment options
- Project study area (22/05/2023)
- Disturbance footprint (02/04/2024)
- Proposed Watagan substation option (16/02/2024)
- Construction easement (19/10/2023)



0 0.5 1
Kilometres



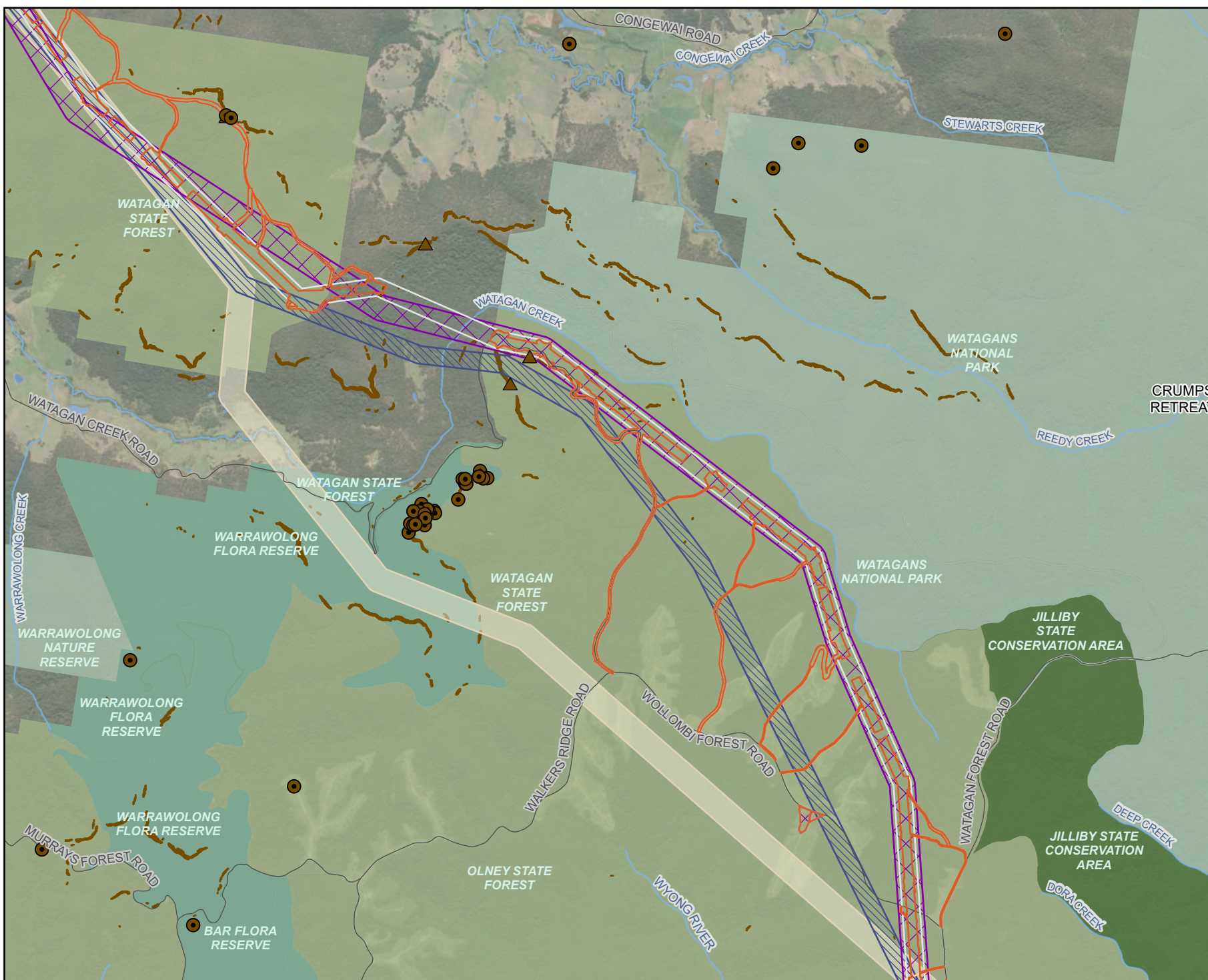
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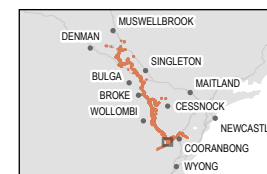
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World Imagery: Maxar

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Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- 500 kV transmission line
- Named watercourse
- Waterbody
- NPWS reserve
- State conservation area
- State forest
- Previous alignment options
- Project study area (22/05/2023)
- Disturbance footprint (02/04/2024)
- Proposed Watagan substation option (16/02/2024)
- Construction easement (19/10/2023)



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4



1:30,000 Date: 16/07/2025

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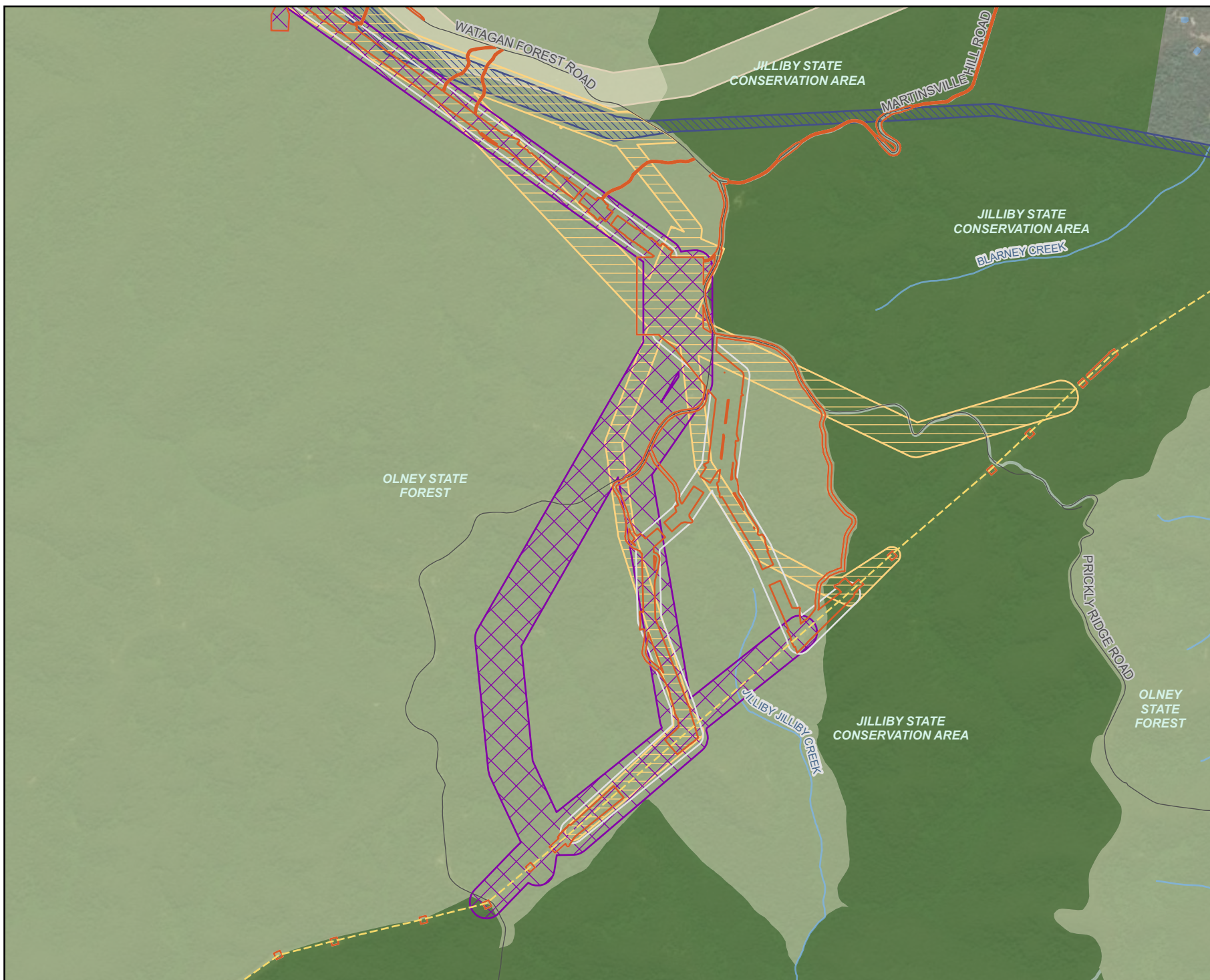
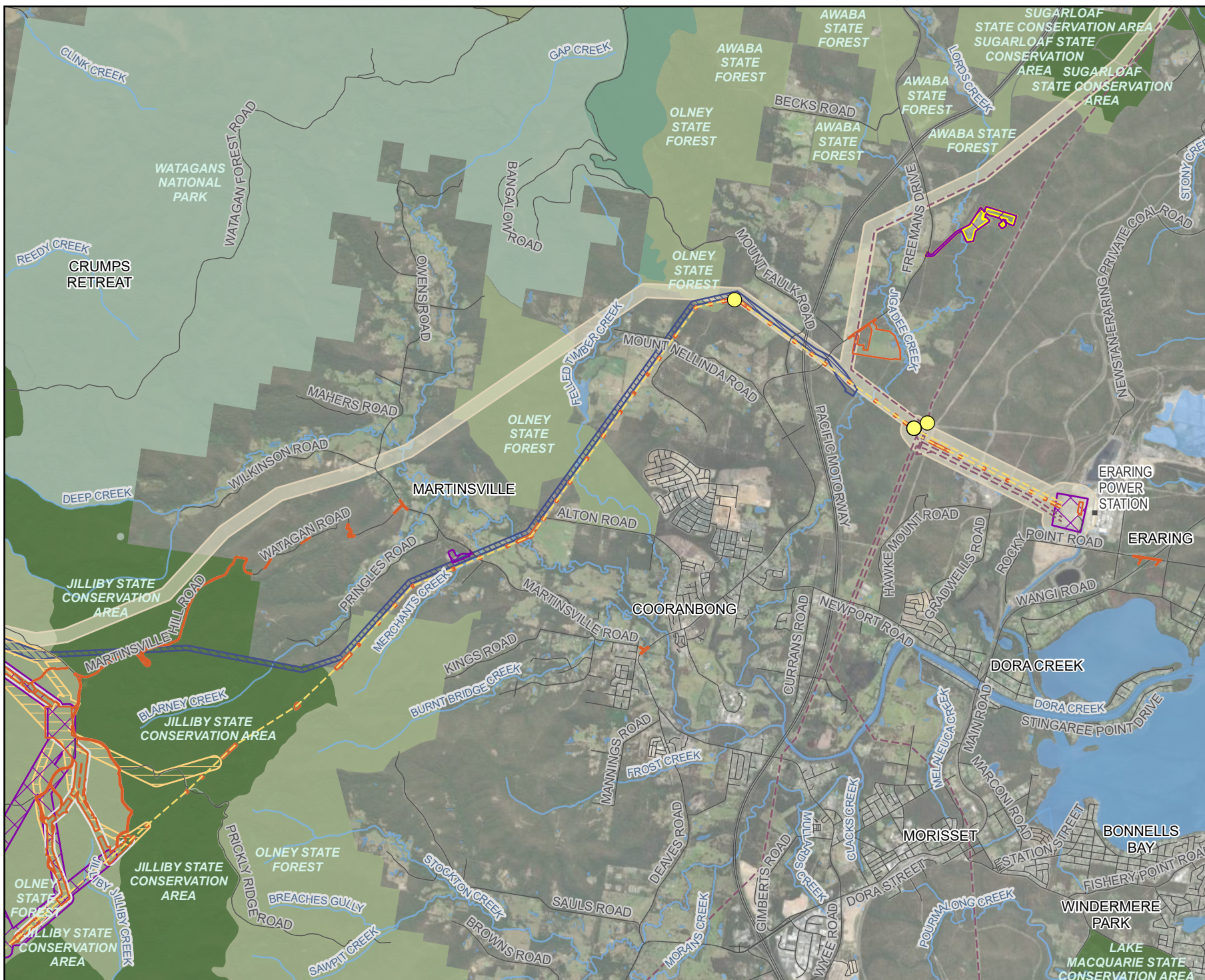
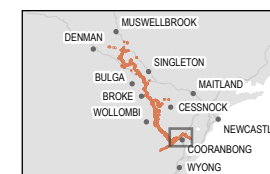


Figure 14.24
Impact avoidance detail
Site J



Legend

- Biodiversity study area
- Subject land
- Existing environment
- Road
- Power station
- - - 330 kV transmission line
- - - 500 kV transmission line
- Named watercourse
- Waterbody
- NPWS reserve
- State conservation area
- Flora reserve
- State forest
- *Genoplesium insigne* record (WSP)
- Previous alignment options
- Project study area (22/05/2023)
- Disturbance footprint (02/04/2024)
- Construction compound design (18/03/2024)
- Proposed Watagan substation option (16/02/2024)
- Construction easement (19/10/2023)



Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A4

GDA 2020 1:75,000 Date: 16/07/2025

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