Figure 21 - Key Environmental, Heritage and Land Use Values Ñ Kerang Proposed Tragowel Leaghur SP Terminal Station Minmindie +143m Wycheproof **Boort** Durham Ox Mysia Borung Hwy Charlton Borung Hay Borung +236m St Arnaud 370m Tottington Mount NCR Bolangum + Wimmera Hwy Bendigo Morri +304 m Navarre Kara NP Stawell menees Hwy Maryborough 20 Z Castlemaine 10 Bulgana Terminal

**LEGEND** 

Draft Corridor

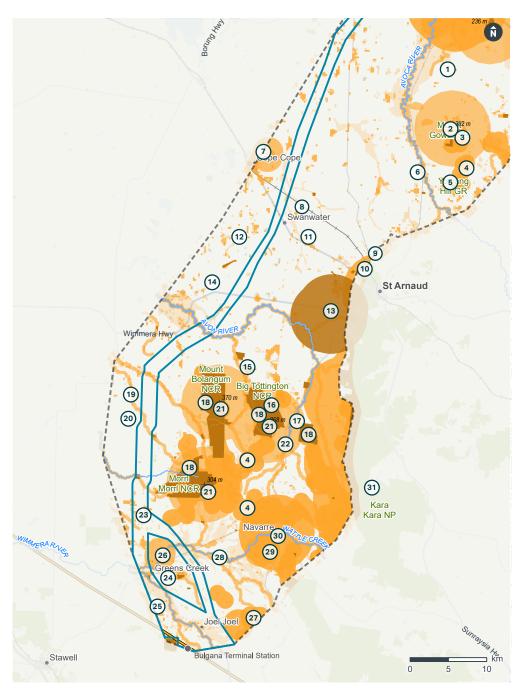
5A Area of Interest

- Bulgana Terminal Station
- + High Points

- Existing Transmission Lines
- Proposed Tragowel Terminal Station



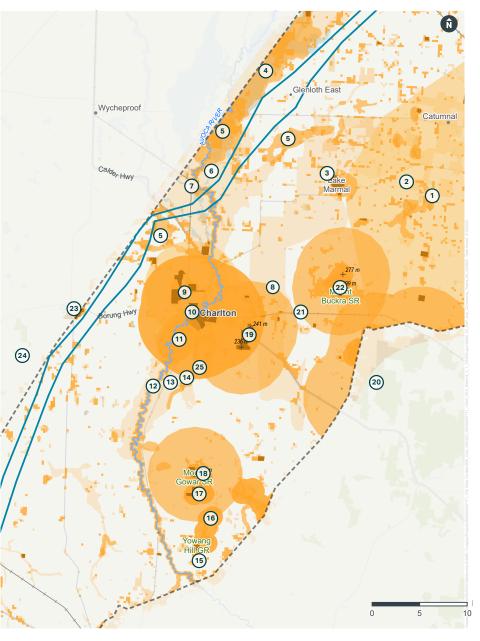
Figure 22 - Key Environmental, Heritage and Land Use Values in the Southern Section of the Area of Interest



- Flooding: Flood prone areas along the Avoca River
- 2 Visual Impact: Topographic high point at Mt Gowar
- 3 Land Use: Coonooer Bridge Wind Farm (operating)
- 4 Engineering: Steep topography in this area is incompatible with transmission line infrastructure
- 5 Land Use: Yawong Wind Farm (operating)
- 6 Ecology: Streamside reserves are home to remnant native vegetation
- **Aviation:** Buffer recommended from Cope Cope Airport
- 8 Infrastructure: Yelta freight railway line
- 9 Land Use: Land zoned as Rural Living Zone
- Land Use: St Arnaud township, 5km buffer recommended

- 11 Land Use: Swanwater Homestead Ruins Heritage Overlav
- 12 Ecology: Scattered areas of high Strategic Biodiversity Value present in this area
- 13 Aviation: CASA Certified St Arnaud Airport
- 14 Agriculture: Crop farming more likely in this general area as opposed to grazing
- 15 Land Use: Sand and gravel quarries (active extractive industry work authorities)
- 16 Ecology: EPBC Act listed Swift Parrot habitat
- 17 Flooding: Flood prone areas present along the Avon River
- (18) Ecology: Parks and reserves with high Strategic Biodiversity Values, home to native flora and fauna
- 19 Cultural Heritage: Registered sites of Aboriginal cultural heritage sensitivity are more likely within 200m of a waterway
- 20 Land Use: Wallaloo Golf Course
- 21 Visual Impact: Scenic high points present within parks and
- Historic Heritage: Victorian
  Heritage Register listed
  "the Woolshed, Tottington
- 23 Ecology: Scattered areas of high Strategic Biodiversity Value present in this area
- 24 Cultural Heritage: Registered areas of cultural heritage present surrounding Greens Creek
- Land Use: Proposed location for Watta Wella Renewable Energy Project
- **Aviation:** Buffer recommended from unnamed airfied
- 27 Property: High frequency of
- 28 Flooding: Wattle Creek/Heifer Station Creek and distributaries are flood prone
- Aviation: Buffer recommended from Navarre Airport
- 30 Land Use: Navarre township, 5km buffer recommended
- 31 Visual Impact: 5km buffer recommended from Karra Karra National Park

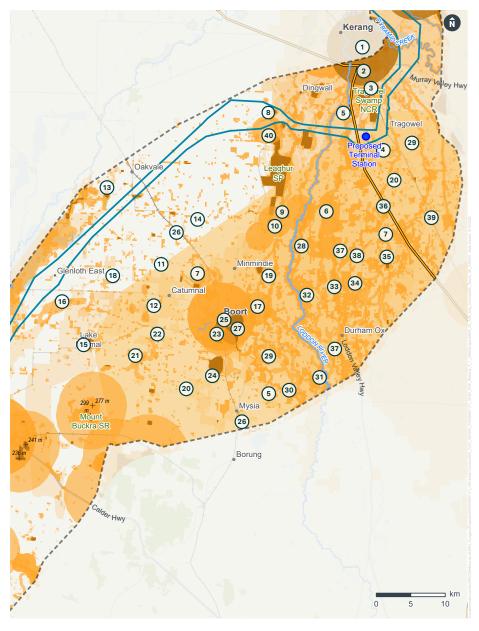
Figure 23 - Key Environmental, Heritage and Land Use Values in the South-Central Section of the Area of Interest



- Cultural Heritage: Registered sites of cultural heritage proximal to Lake Terrappee and scattered between Boort and Lake Marmal
- Agriculture: Boort olive growing area (irrigated perennial horticulture)
- 3 Cultural Heritage: Registered cultural heritage sensitivity encompassing Lake Marmal
- 4 Ecology: Ecologically sensitive wetlands
- 5 **Cultural Heritage:** Registered areas of Aboriginal Cultural Heritage
- 6 Flooding: Extensive Floodway Overlay and Land Subject to Inundation Overlay areas adjacent to the Avoca River

- 7 Ecology: High quality remnant native vegetation and high SBV along the Avoca River
- 8 **Ecology:** Areas of high SBV along the Avoca River
- 9 **Visual Impact:** Klunders Hill lookout. 5km buffer recommended
- 10 Land Use: Charlton township, 5km buffer recommended
- **Aviation:** Buffer recommended from Charlton Airport
- Cultural Heritage: Registered sites of Aboriginal cultural heritage sensitivity are more likely within 200m of a waterway.
- 13 Flooding: Extensive Floodway Overlay and Land Subject to Inundation Overlay areas adjacent to the Avoca River
- 14 Cultural Heritage: Registered areas of cultural heritage sensitivity located to the south of Charlton
- 15 Land Use: Yawong Wind Farm (operating)
- **Engineering:** Steep topography in this area is incompatible with transmission line infrastructure
- Land Use: Coonooer Bridge Wind Farm (operating)
- 18 Visual Impact: Topographic high point within Mount Gowar Scenic Reserve. 5km buffer recommended
- 19 Visual Impact: Topographic high points within Charlton East Bushland Reserve and Howells Hill Scenic Reserve. 5km buffer recommended
- Visual Impact: Topographic high point at Mt Kerang in Wychitella Nature Conservation Reserve. 5km buffer recommended
- 21 Infrastructure: Kulwin Railway Line
- Visual Impact: Topographic high point within Mount Buckra Scenic Reserve, 5km buffer recommended
- 23 Ecology: Wooroonook Lakes (Middle and East) Wildlife Reserve
- 24 Visual Impact: Mount Jeffcott
- Flooding: Flood prone areas adjacent to Yeungroon Creek

Figure 24 - Key Environmental, Heritage and Land Use Values in the North-Central Section of the Area of Interest



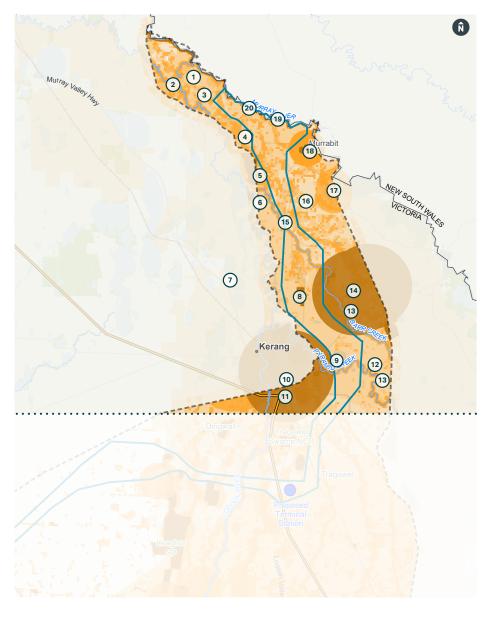
- 1 Land Use: CASA Certified Kerang Airport, 4.8km OLS buffer required
- 2 Engineering: Existing terminal station
- 3 Land Use: Cluster of approved Solar Farm properties
- 4 Land Use: Tragowel Solar Farm (approved not yet constructed)
- 5 Flooding: Extensive area of floodplains across the Loddon River catchment area. Affected area spans from Kerang to Mysia
- 6 Ecology: Network of ecologically sensitive wetlands along Bannagher Creek
- 7 Ecology: Scattered wetlands

- B Cultural Heritage: Cultural heritage sensitivity encompasses the Great Spectacle Lakes Complex
- 9 Ecology: Black Box wetland and woodland habitat
- Land Use: Cluster of private aerodromes
- 11 Ecology: Roadside reserves scattered throughout this area support remnant native vegetation
- 12 Agriculture: Irrigated grazing and cropping activities outside the GMID in this area
- 13 Ecology: High Strategic Biodiversity Values at Griffith Lagoon NCR
- 14 Land Use: Vegetation
  Protection Overlays exist in this

- Cultural Heritage: Registered cultural heritage sensitivity encompassing Lake Marmal
- 16 Cultural Heritage: Registered areas of Aboriginal Cultural Heritage
- 17 Aviation: Buffer recommended from Boort 3 (Wright Field)
  Airport
- 18 Ecology: Roadside reserves scattered throughout this area support remnant native yegetation
- Land Use: Comparatively smaller farming lots and a high frequency of residential homes are present surrounding Minmindie and to the east of Boort.
- 20 Agriculture: Higher GMW impact area

- 21 Cultural Heritage: Registered sites of cultural heritage proximal to Lake Terrappee and scattered between Boort and Lake Marmal
- 22 Agriculture: Boort Estate olive grove (irrigated perennial horticulture)
- Aviation: Boort 1 (Biggin Hill)
  Airport assumed OLS
- 24 Cultural Heritage: High frequency of registered cultural heritage sensitivity surrounding Woolshed Swamp
- Land Use: Boort town centre,
  5km buffer recommended
- 26 Infrastructure: Robinvale Railway Line
- Aboriginal Cultural
  Heritage: Significant levels
  of cultural heritage sensitivity
  encompassing Boort and
  surrounding areas
- 23 Cultural Heritage: Cultural heritage sensitivity associated with existing and historic waterways along the lower Loddon River catchment
- Agriculture: Goulburn Murray Irrigation District stretches from the NSW border to Boort, supporting hundreds of farms in the region
- **Cultural Heritage:**High frequency of registered Aboriginal cultural heritage places along Kinypanial Creek
- 1 Land Use: Avoid Public Conservation and Recreation Zoning, as defined under the Victorian Planning Scheme, along the Loddon River
- **Secology:** Large contiguous areas with Strategic Biodiversity Values over 95/100
- 33 Cultural Heritage: Cultural heritage sensitivity associated with existing and historic waterways along the lower Loddon River catchment
- 34 Ecology: Stream-side reserves and roadside reserves scattered throughout the AOI support remnant native vegetation
- **Ecology:** Areas with Strategic Biodiversity Values above 90/100 east of Loddon Vale
- 36 Engineering: Existing 200 kV
- 37 Engineering: Unfavourable soil conditions over the Loddon River flood plain
- Agriculture: This broader area houses intensive farming activities (including horticulture, irrigated pastures and irrigated expension)
- 39 Infrastructure: Piangil Railway Line
- 40 Aviation: Buffer recommended from private airstrip

Figure 25 - Key Environmental, Heritage and Land Use Values in the Northern Section of the Area of Interest



- 1 Agriculture: Goulburn Murray Irrigation District stretches from the NSW border to Boort, supporting hundreds of farms in the area
- 2 Aboriginal cultural heritage: Registered areas of Aboriginal cultural heritage sensitivity adjacent to the Little Murray River and at Pental Island
- 3 Flooding: Extended flooding event in 2011 and again in 2022, resulting in prolonged road closures
- 4 Flooding: Area subject to LSIO overlay
- **Ecology:** Area with Strategic Biodiversity Values over 95/100
- 6 Cultural Heritage: Registered areas of cultural heritage sensitivity adjacent to the Loddon River
- **7 Ecology:** RAMSAR listed Kerang Wetlands
- 8 Ecology: Plumptons Wildlife Reserve
- Flooding: Area prone to flooding and long periods of innundation
- **Land Use:** CASA Certified Kerang Airport, 4.8km OLS buffer required
- **Engineering:** Existing terminal station
- Cultural Heritage: Cultural heritage sensitivity adjacent to Pyramid Creek
- 13 Land use and planning: Avoid
  Public Conservation and Recreation
  Zoning, as defined under the Victorian
  Planning Scheme, over Pyramid
  Creek and Barr Creek
- **Aviation:** OLS protected area surrounding Robin's Aviation airstrip
- 15 **Cultural Heritage:** Registered areas of cultural heritage present adjacent to Barr Creek
- **Ecology:** High Strategic Biodiversity Values in this area
- **Aviation:** Buffer recommended from Koondrook (Riversdale) Airport
- 18 Land Use: Murrabit town centre
- 19 Land Use: High frequency of residences along the Murray Rive
- 20 **Ecology:** Streamside reserves along the Murray River support remnant native vegetation

Figure 26 - Ramsar Wetlands NEW SOUTH WALES Proposed Tragowel Terminal Station Leaghur SP Minmindie Wycheproof 143 m **Boort** Durham Ox +277 m +299 m Mysia Borung Hwy Charlton Borung Hwy Borung +236 m +<sup>302 m</sup> St Arnaud Wimmera Hwy 370 m Big Tottington NCR Wimmera Hwy Mount + 268 m Bolangum NCR MorrI + NCR 304 m Kara NP Navarre\*

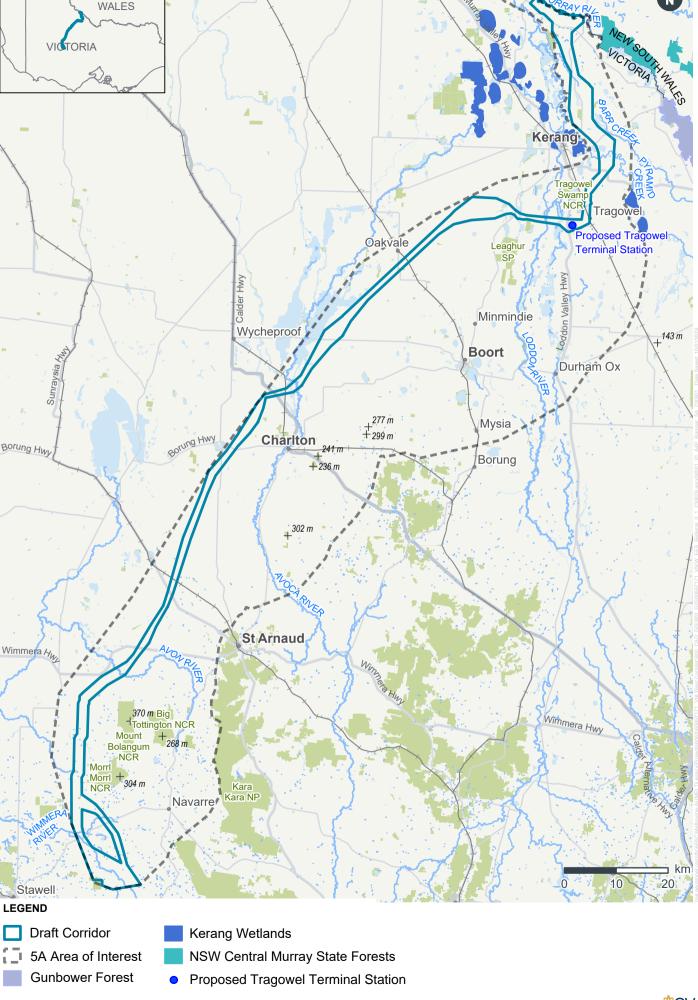




Figure 27 - Visual Impact

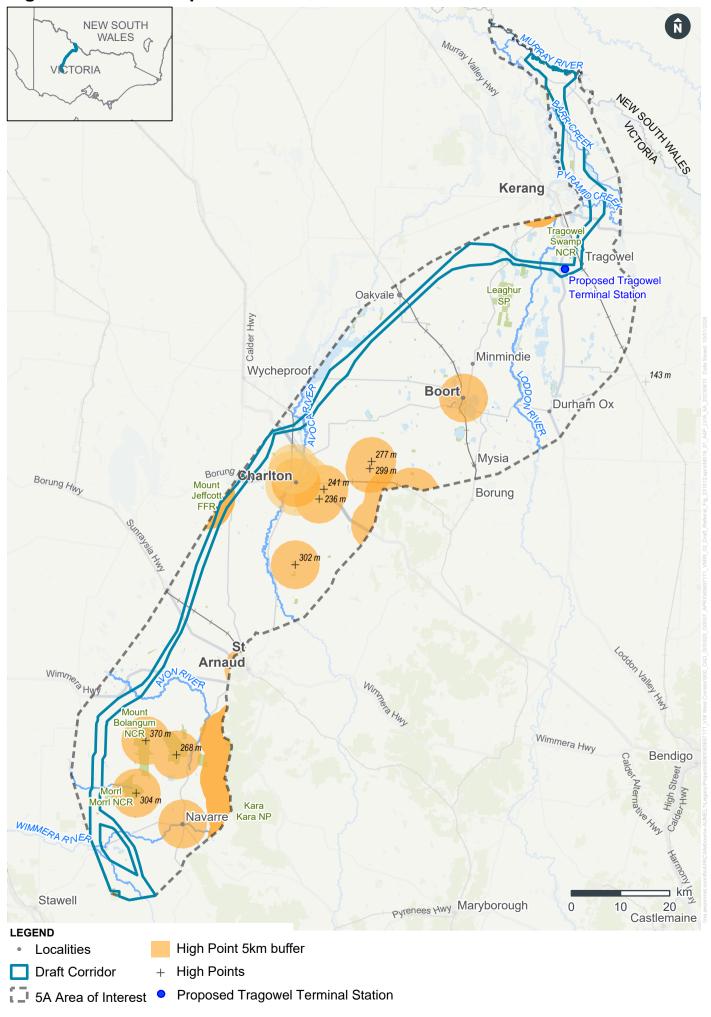


Figure 28 - Surface Water and Flooding

