



# Gundary Solar Farm

## AMENDMENT REPORT

June 2025



## **Gundry Solar Farm**

### **Amendment Report**

### **Final**

Prepared by Umwelt (Australia) Pty Ltd  
on behalf of Lightsource bp

Project Director: Malinda Facey  
Project Manager Marion O'Neil  
Report No.: 30192/R04  
Date: June 2025



This report was prepared using Umwelt's  
ISO 9001 certified Quality Management System

### **Acknowledgement of Country**

Umwelt would like to acknowledge the traditional custodians of the country on which we work and pay respect to their cultural heritage, beliefs, and continuing relationship with the land. We pay our respect to the Elders – past, present, and future.

### **Disclaimer**

This document has been prepared for the sole use of the authorised recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that for which it was supplied by Umwelt (Australia) Pty Ltd (Umwelt). No other party should rely on this document without the prior written consent of Umwelt.

Umwelt undertakes no duty, nor accepts any responsibility, to any third party who may rely upon or use this document. Umwelt assumes no liability to a third party for any inaccuracies in or omissions to that information. Where this document indicates that information has been provided by third parties, Umwelt has made no independent verification of this information except as expressly stated.

**©Umwelt (Australia) Pty Ltd**

### **Document Status**

Rev No.	Reviewer Name	Reviewer Date	Approved for Issue Name	Approved for Issue Date
Final	Malinda Facey	24/04/2025	Malinda Facey	28/04/2025



# Table of Contents

<b>1.0</b>	<b>Introduction</b>	<b>1</b>
1.1	Background	1
1.2	The Project as Described in the EIS	3
1.3	Project Amendments and Refinements	8
1.4	Report Structure	8
<b>2.0</b>	<b>Strategic Context</b>	<b>9</b>
<b>3.0</b>	<b>Description of the Amendments</b>	<b>10</b>
<b>4.0</b>	<b>Statutory Context</b>	<b>13</b>
4.1	NSW Assessment and Approval Process	13
4.2	Commonwealth Assessment and Approval Process	13
<b>5.0</b>	<b>Engagement</b>	<b>14</b>
<b>6.0</b>	<b>Assessment of Impacts</b>	<b>15</b>
<b>7.0</b>	<b>Updated Justification and Evaluation of the Project</b>	<b>16</b>
7.1	Environmental, Social and Economic Impacts	16
7.2	Ecologically Sustainable Development	17
7.3	Conclusion	18
<b>8.0</b>	<b>References</b>	<b>19</b>

## Figures

Figure 1.1	Location and Regional Context	2
Figure 1.2	Project Conceptual Layout	6
Figure 1.3	Project Area	7

## Tables

Table 1.1	Project Summary	3
Table 1.2	Structure of this Amendment Report	8
Table 3.1	EIS Figures	10
Table 3.2	BDAR Figures	11
Table 3.3	AHCAR Figures	12



## **Appendix No. Appendix Title**

Appendix 1	EIS Figures
Appendix 2	BDAR Figures
Appendix 3	ACHA Figures

# 1.0 Introduction

## 1.1 Background

Lightsource Development Services Australia Pty Ltd (Lightsource bp) is proposing to develop the Gundry Solar Farm (the Project) to generate solar renewable energy to supply New South Wales (NSW). The Project is located within the Goulburn Mulwaree Local Government Area (LGA) of NSW, approximately 10 km south-east of Goulburn. The Project's location and regional context is shown in **Figure 1.1**.

The Project, as described in the Environmental Impact Statement (EIS) (Umwelt, 2024), encompassed a Development Footprint of approximately 512 ha and included the construction, operation, maintenance and decommissioning of an approximate 400 Megawatt peak (MWp) (DC) solar photovoltaic (PV) generation facility with a Battery Energy Storage System (BESS) of up to 555 MWp and 1,570 Megawatt hour (MWh) capacity (the Project). The Project further included ancillary infrastructure, an onsite substation/switching station and connection to an existing 330 kilovolt (kV) transmission line (Yass to Marulan) as well as intersection works on Windellama Road to upgrade the Project access to accommodate heavy vehicles.

The Environmental Impact Statement (EIS) for the Gundry Solar Farm (Umwelt, 2024) was placed on public exhibition from 15 November to 12 December 2024. During public exhibition, a total of 174 submissions were made on the Project. This included 14 government submissions and 160 unique public submissions. Of the 160 unique submissions received from the public, the Project received 143 objecting submissions, 16 supporting submissions and one submission providing comment. A detailed response to the issues raised during the public exhibition period is provided in the Submissions Report (Umwelt, 2025).

Following public exhibition of the EIS, Lightsource bp has continued to consult with relevant government agencies, Council, landholders and the community more broadly. Consideration of submissions received, and ongoing consultation has led to some Project refinements, including increased community benefits and updated management and mitigation measures. These refinements are described within the Submissions Report. No changes are proposed to the Project as described in Section 3.0 of the EIS. However, the boundary of the Development Footprint as illustrated on some figures within the EIS, including the Biodiversity Development Application Report (BDAR) and Aboriginal Cultural Heritage Assessment Report (ACHAR), required an update. Following advice from DPHI, an Amendment Report (this Report) has been prepared separately to the Submissions Report to provide a consolidated set of updated figures for these reports.

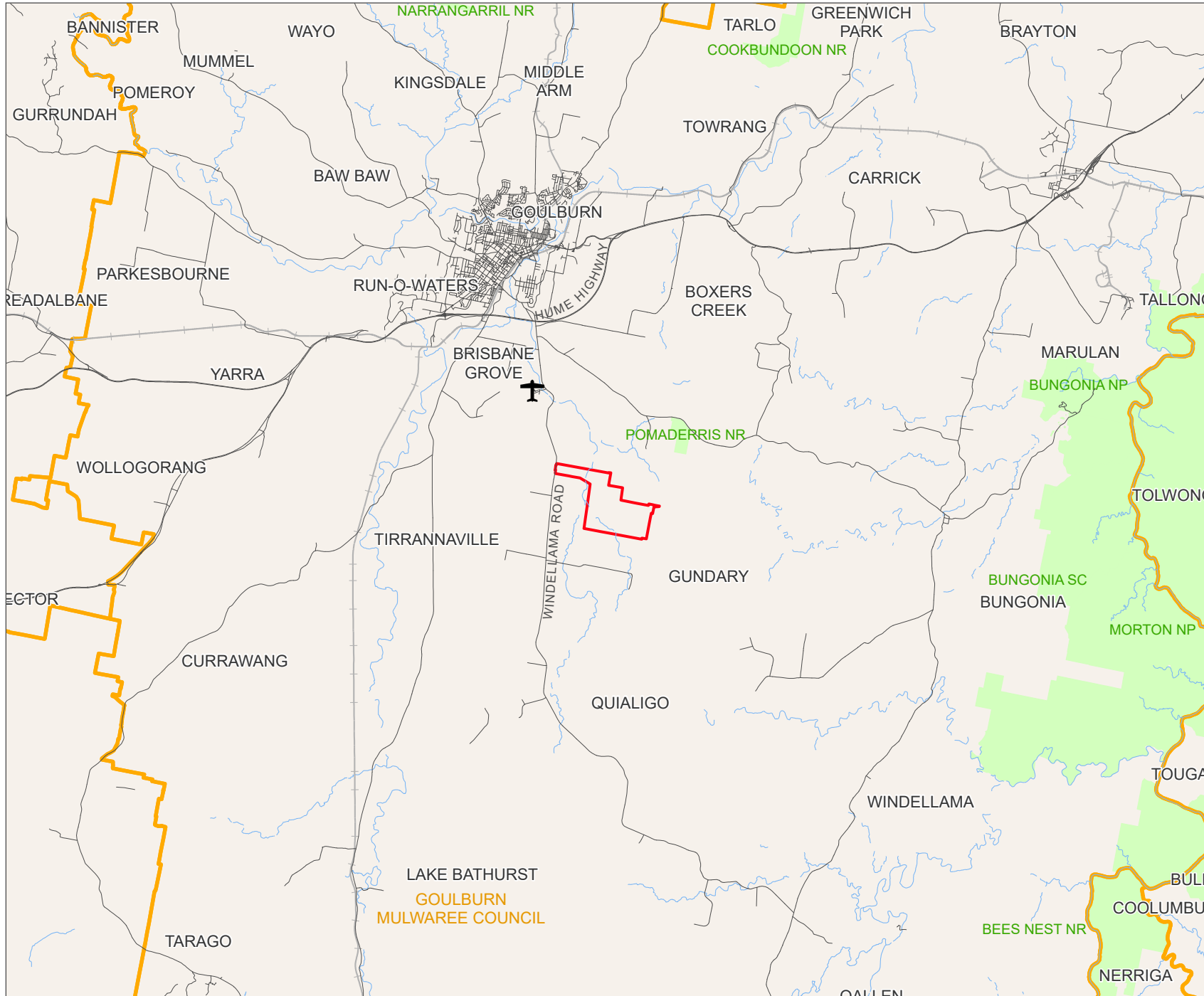
This Amendment Report therefore relates exclusively to the update of the Development Footprint boundary as illustrated on relevant figures within the EIS, BDAR and AHCAR. This Amendment Report has been prepared by Umwelt on behalf of Lightsource bp in accordance with the *State significant infrastructure guidelines – preparing an amendment report* (the Amendment Report Guidelines) (DPIE, 2022).

**FIGURE 1.1**

## Locality and Regional Context

### Legend

- Project Area
- ✈ Goulburn Airport
- ▬ Local Government Area
- NPWS Estate
- Roads
- Railway
- Watercourses



0 2.5 5  
Kilometers

Scale: 1:0 at A4  
GDA 1994 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt



## 1.2 The Project as Described in the EIS

The Project as described in Section 3.0 of the EIS (Umwelt, 2024) includes the construction, operation, maintenance and decommissioning of an approximate 400 MWp solar farm with a 325 MWp/650 MWh centralised BESS, a 230 MWp/ 920 MWh decentralised BESS or a combined centralised and decentralised BESS with a total capacity of 555 MWp/1,570 MWh and associated infrastructure in the Southern Tablelands region of NSW. Associated infrastructure would include internal access tracks and associated watercourse crossings (via culverts and bed level crossings), an operational and maintenance (O&M) facility, civil works (such as an intersection upgrade on Windellama Road) and onsite electrical infrastructure (including a substation/switching station) required to connect to the existing 330 kV transmission line (Yass to Marulan).

The conceptual layout for the Project (refer to **Figure 1.2**) has been designed to maximise solar efficiency whilst avoiding impacts on areas of high biodiversity value and minimising impacts to proximal landholders in regard to noise and visibility, surface water resources (including flooding) and cultural heritage constraints.

The Project Area covers approximately 702 ha and comprises five freehold lots (refer to **Figure 1.3**). The Project Area further includes a small section of Windellama Road (including the road reserve) at the Project's primary access point.

A summary of the Project, listing details of the proposed development for which approval is sought, is provided in **Table 1.1**.

**Table 1.1 Project Summary**

Project Element	Description
SSD Application Number	SSD-48225958
Solar generation capacity	Approximately 400 MWp (DC)
Project area footprint	Approximately 702 ha
Development Footprint	Approximately 512 ha
Subdivision	Subdivision of land is required as part of the Project
Exclusion zones and setback buffers	<p>Setbacks include:</p> <ul style="list-style-type: none"> <li>10 m Asset Protection Zone (APZ) around the perimeter of the Project</li> <li>5 m landscaping buffer, strategically located outside the APZ and the security fencing</li> <li>approximately 20 m to 40 m setbacks around second order and higher streams, including some farm dams.</li> </ul> <p>Exclusion zones include:</p> <ul style="list-style-type: none"> <li>Areas prone to flooding (1% AEP).</li> <li>Areas with TECs and habitat for threatened fauna and flora species.</li> </ul>
Solar arrays	<ul style="list-style-type: none"> <li><b>Panels</b> – approximately 660,000 bifacial flat plate solar photovoltaic (PV) modules.</li> <li><b>Panel dimensions and area</b> – approximately 2.38 m x 1.3 m totalling approximately 3 m<sup>2</sup> per panel.</li> </ul>

Project Element	Description
	<ul style="list-style-type: none"> <li>• <b>Row spacing</b> – up to 5 m.</li> <li>• <b>Maximum height</b> – 3 m at full tilt with an occasional height of up to 4 m (depending on topography).<sup>1</sup></li> </ul>
Battery Storage	<ul style="list-style-type: none"> <li>• <b>Capacity</b> – up to 555 MWp and 1,570 Megawatt hour (MWh) capacity.</li> <li>• <b>Configuration</b> – subject to detailed design, up to 89 battery stations will be housed in a series of outdoor containers, either distributed across the site (Option 1 – decentralised DC-coupled) and/or aggregated in one central location (Option 2 – centralised AC-coupled), as illustrated on <b>Figure 1.2</b>.</li> <li>• <b>Maximum height</b> – approximately 3 m.</li> </ul>
Electrical infrastructure	<ul style="list-style-type: none"> <li>• Substation/Switching station: <ul style="list-style-type: none"> <li>○ Onsite connection to the existing 330 kV overhead powerline via a proposed 33/330 kV substation and switching station including ancillary infrastructure to connect to the existing transmission line, which has a 60 m easement.</li> <li>○ Area – approximately 6.3 ha.</li> <li>○ Maximum height – approximately 3.5 m with taller ancillary components such as busbar at 14 m high, gantry and lightning arrestors up to 22 m high.</li> </ul> </li> <li>• <b>Power conversion station (PCS)</b> – consisting of up to 128 inverters as well as medium voltage transformers and requisite infrastructure.</li> </ul>
Project access	<ul style="list-style-type: none"> <li>• Transport via road from Port Botany in Sydney or Port Kembla south of Wollongong, to the Project Area via the public road network with two access route options proposed.</li> <li>• Project's primary access via the existing driveway on Windellama Road, with intersection works proposed to upgrade the Project access to accommodate heavy vehicles.</li> <li>• Alternate access via Kooringaroo Road for emergencies only.</li> </ul>
Internal access tracks	<ul style="list-style-type: none"> <li>• Approximately 4 m wide tracks with turning bays for emergency vehicles, consisting of compacted gravel, with a main access track of 6 m wide to the substation to allow for the safe delivery, unloading and installation of key components, including some watercourse crossings (via culverts and bed level crossings), as shown on <b>Figure 1.2</b>.</li> </ul>
Security fence, lighting and CCTV	<ul style="list-style-type: none"> <li>• Perimeter security fencing consisting of chain wire including three strings of barbed wire on top, to a height of approximately 2.3 m plus motion detecting security lighting.</li> </ul>
Operation and Maintenance (O&M) facilities	<ul style="list-style-type: none"> <li>• <b>Location</b> – two small O&amp;M facilities will be established, one within the construction compound area in the northwest corner of the Project Area and the other next to substation, as shown on <b>Figure 1.2</b>.</li> <li>• Facilities to include an office with staff amenities (kitchenette, toilets, showers), car park and workshop/shed.</li> </ul>

<sup>1</sup> The environmental assessment was based on a maximum 3 m high panel as the overall height of panels across the site will not exceed 3 m. The occasional panel height of 4 m will be typically limited to lower lying areas.

Project Element	Description
Temporary ancillary facilities	<ul style="list-style-type: none"> <li>• <b>Location</b> – proposed compacted gravel areas within the development footprint, as shown on <b>Figure 1.2</b>.</li> <li>• Main construction site compound to include office amenities, parking, storage, and associated facilities, with laydown areas suitable for storing plant and equipment, solar panels and cable drums, and areas to support waste management activities.</li> </ul>
Workforce	<ul style="list-style-type: none"> <li>• <b>Construction</b> – Approximately 400 full time equivalent (FTE) jobs with approximately 250 personnel on site during peak construction.</li> <li>• <b>Operation</b> – Up to four FTE jobs.</li> </ul>
Construction hours	<ul style="list-style-type: none"> <li>• Typical standard construction i.e.: <ul style="list-style-type: none"> <li>○ 7 am to 6 pm Monday to Friday</li> <li>○ 8 am to 1 pm on Saturdays</li> <li>○ No works on Sunday or public holidays.</li> </ul> </li> <li>• Lightsource bp proposes to carry out works outside of these hours which are inaudible at non-associated residences, emergency work, and deliveries and dispatches where requires by authorities for safety reasons.</li> </ul>
Construction timing	Approximately 18 to 24 months (commencing in Q4 2025/Q1 2026).
Commencement of operations	Anticipated Q1 2028.
Operation period lifespan	Approximately 40 years. Operating 24/7, 365 days a year.
Capital investment	Approximately \$650 million.

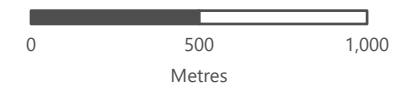


# FIGURE 1.2

## Project Conceptual Layout

### Legend

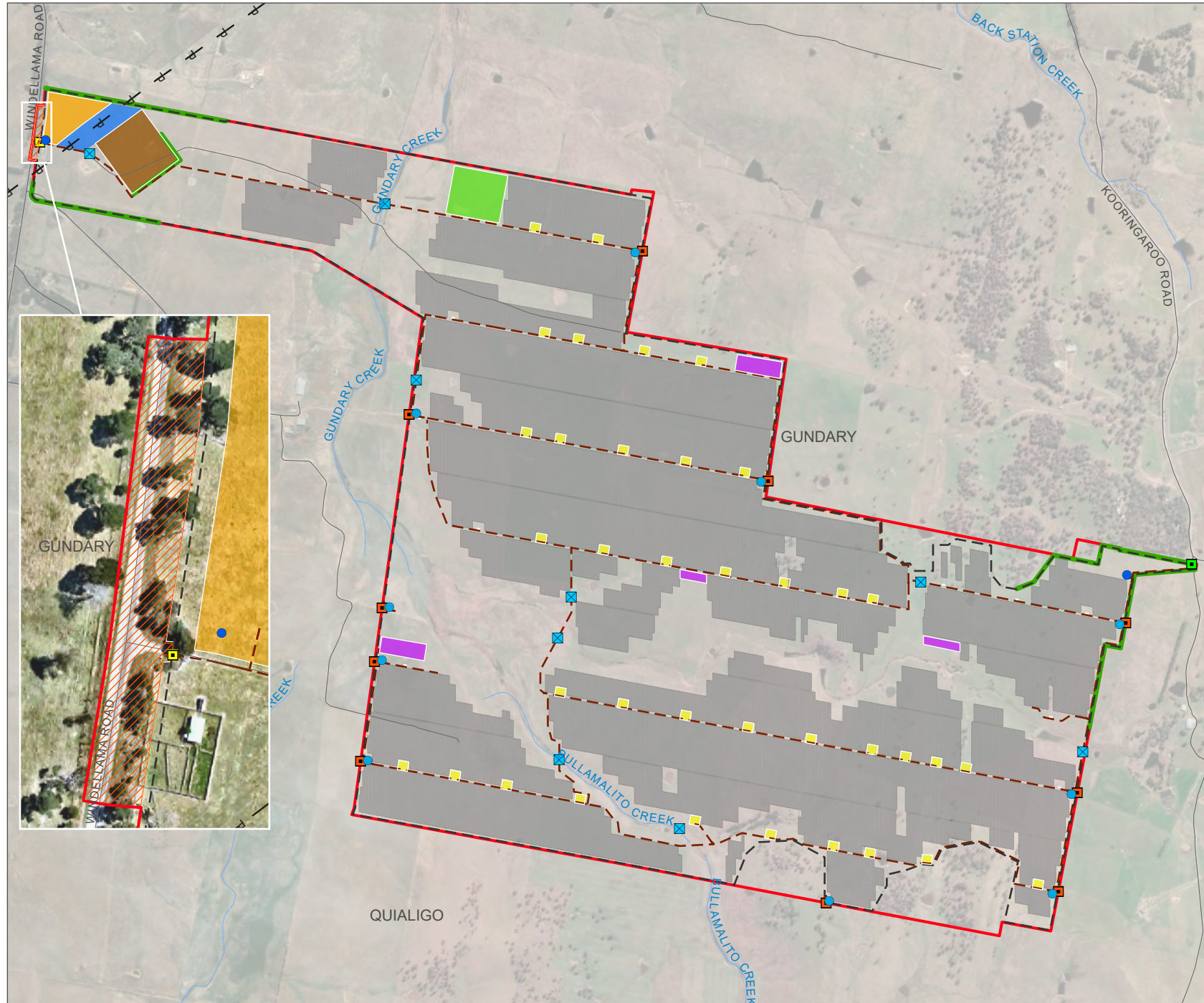
- Access Roads
- Security Fence
- Existing Transmission Line
- Roads
- Watercourses
- ☒ Watercourse / Bed Level Crossing
- Water Tank (40,000L)
- Water Tank (10,000L)
- Primary Access
- Emergency Access
- Emergency Gate
- ▭ Project Area
- ▨ Proposed Road Upgrade
- Solar Panels
- Landscaping Buffer (5m)
- Transgrid Line Works
- Centralised AC BESS
- Substation and O&M Facility Area
- Construction Compound Area
- Decentralised DC BESS
- Temporary Laydown Area



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt





# FIGURE 1.3

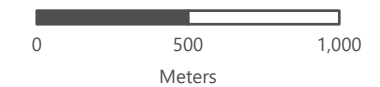
## Project Area

### Legend

- Project Area
- Cadastre Boundaries
- Roads
- Watercourses
- Existing Transmission Line
- Indicative Overhead Line Easement
- Crown Land

### Lots Identified within the Project Area

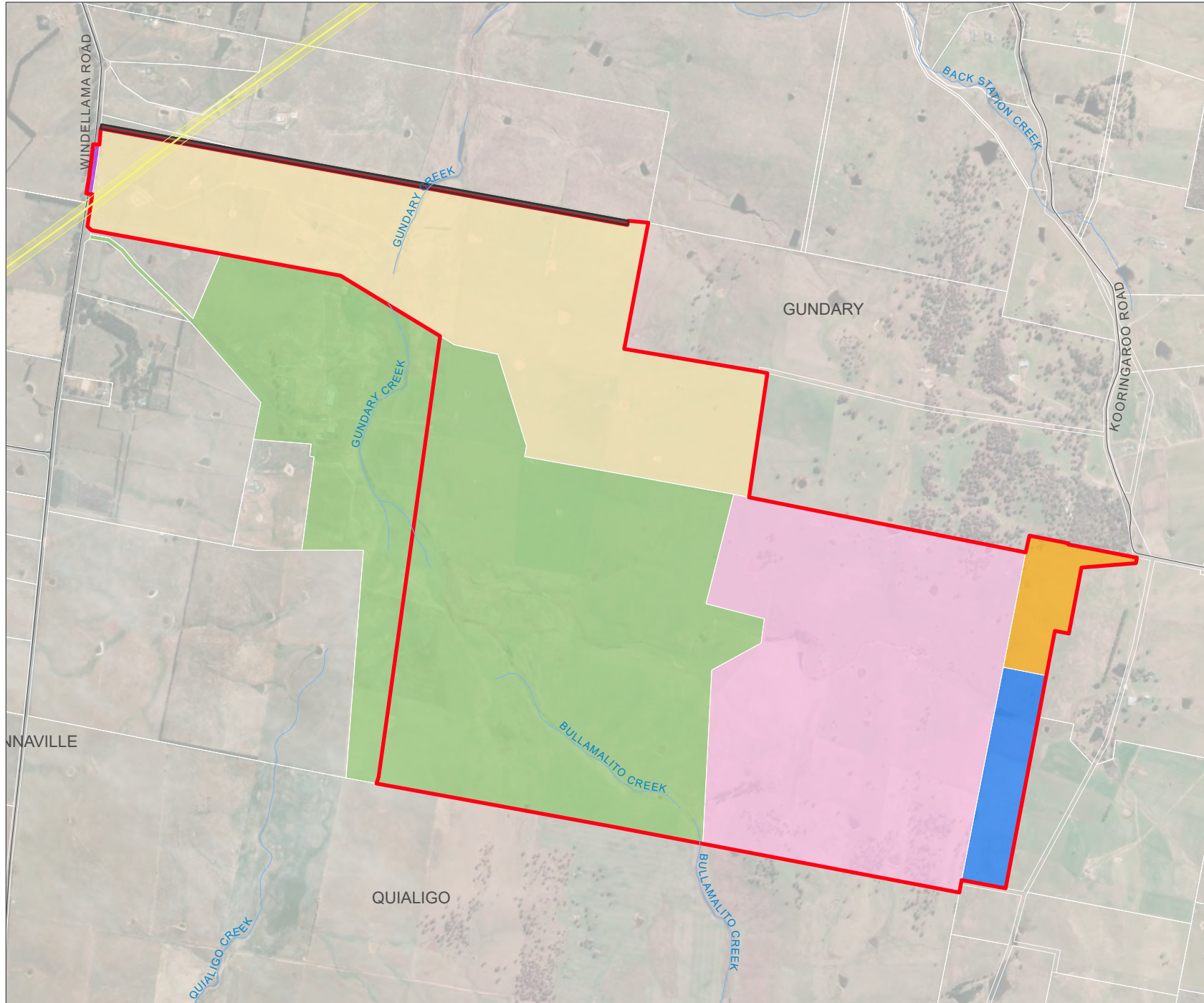
- 1/DP870101
- 12/DP1016332
- 2/DP1187724
- 80/DP750018
- Lot 3/DP1238347
- Project Area within Road Reserve



Scale: 1:0 at A4  
GDA 1994 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt



## 1.3 Project Amendments and Refinements

Following the exhibition of the EIS, Lightsource bp has continued to consult with relevant government agencies, Council, landholders and the community more broadly. Consideration of submissions received, and ongoing consultation has led to some Project refinements, including increased community benefits and updated management and mitigation measures. These are discussed in Section 3.2 of the Submissions Report due to their minor nature (i.e. not requiring any amendments to the Project as described in the EIS or needing any further environmental assessment) and resulting in a reduction of impacts.

No changes are proposed to the Project as described in Section 3.0 of the EIS. However, an update to the boundary of the Development Footprint, as presented on some figures within the EIS (including the BDAR and AHCAR) was required, as discussed in **Section 3.0** of this Amendment Report.

## 1.4 Report Structure

The structure of this Amendment Report is presented in **Table 1.2** below, in accordance with the Amendment Report Guideline (DPIE, 2022).

**Table 1.2 Structure of this Amendment Report**

Section	Heading	Description
<b>Section 1.0</b>	Introduction	Introduces the Project and provides context for the Amendment Report.
<b>Section 2.0</b>	Strategic Context	Identifies any changes to the strategic context relevant to the Project.
<b>Section 3.0</b>	Description of the Amendments	Describes the amendments relevant to the Project.
<b>Section 4.0</b>	Statutory Context	Identifies any changes to the statutory requirements as a result of the amendments to the Project.
<b>Section 5.0</b>	Engagement	Summarises the stakeholder engagement that has been undertaken during the development of the Project Amendments.
<b>Section 6.0</b>	Assessment of Impacts	Provides a detailed summary of any changes in impacts resulting from the proposed amendments to the Project.
<b>Section 7.0</b>	Updated Justification	Provides an updated justification of the Project.
<b>Section 8.0</b>	References	Provides a list of references used during the preparation of this report.
<b>Appendix 1</b>	Updated EIS Figures	Relevant EIS figures with updated Development Footprint.
<b>Appendix 2</b>	Updated BDAR Figures	Relevant BDAR figures with updated Development Footprint.
<b>Appendix 3</b>	Updated AHCAR Figure	Relevant ACHAR figures with updated Development Footprint.



## 2.0 Strategic Context

The strategic context for the Project is described in Section 2.0 of the EIS. The strategic context and need for the Project remains unchanged from that described in the EIS and is therefore still relevant.

In summary, the Project is aligned with the NSW and Commonwealth governments' energy and climate policies and will make a meaningful contribution to achieving the goal of net zero emissions by 2050.

## 3.0 Description of the Amendments

The Project as described in Section 3.0 of the EIS remains unchanged and relevant. However, as noted earlier, an update to the boundary of the Development Footprint, as presented on some figures within the EIS (including the BDAR and AHCAR) is required as a superseded version of the Development Footprint was shown in these reports.

Whilst a marginally smaller Development Footprint (being 460 ha) was shown on some figures, the Development Footprint as referenced and assessed in the EIS (being 512 ha) is accurate and remains relevant to the Project. No changes are required to the description of the Development Footprint provided within the body of the EIS, the BDAR and the ACHAR. As such, no updates are required to the body of these reports nor any of the environmental assessments, other than the figures.

**Table 3.1, Table 3.2** and **Table 3.3** outline the required figure updates for the EIS, BDAR and ACHAR respectively and where these are provided in this report.

**Table 3.1 EIS Figures**

EIS Figure Number and Title	Update Required (Yes / No)	Where Provided in this Report
Figure ES.1 Project Location and Regional Context	No	N/A
Figure ES.2 Project Conceptual Layout	No	N/A
Figure 1.1 Project Location and Regional Context	No	N/A
Figure 1.2 Constraints Map	Yes	<b>Appendix 1</b>
Figure 2.1 Average Daily Solar Exposure	No	N/A
Figure 2.2 Regional Cities Map	No	N/A
Figure 2.3 Land Tenure	No	N/A
Figure 2.4 Receivers	No	N/A
Figure 2.5 Project Refinements Following the Scoping Report	No	N/A
Figure 3.1 Project Conceptual Layout	No	N/A
Figure 3.2 Project Area	No	N/A
Figure 3.3 Indicative Subdivision of Land	No	N/A
Figure 3.4 Access and Transport Route	No	N/A
Figure 4.1 LEP Zoning Map	No	N/A
Figure 5.1 Key Stakeholders	No	N/A
Figure 5.2 Perceived Positive Community Views – Frequency by Stakeholder Group	No	N/A
Figure 5.3 Perceived Negative Community Views – Frequency by Stakeholder Group	No	N/A
Figure 6.1 Urban and Fringe Precincts of Goulburn	No	N/A
Figure 6.2 Regional Cities Visual Analysis	No	N/A
Figure 6.3 Goulburn Development Opportunities	No	N/A
Figure 6.4 Plant Community Types and Vegetation Zones	Yes	<b>Appendix 1</b>
Figure 6.5 Threatened Ecological Communities	Yes	<b>Appendix 1</b>

EIS Figure Number and Title	Update Required (Yes / No)	Where Provided in this Report
Figure 6.6 Archaeological Sites within the Project Area	Yes	<b>Appendix 1</b>
Figure 6.7 Soil Sampling Locations and Soil Mapping Units	No	N/A
Figure 6.8 Verified Land and Soil Capability	No	N/A
Figure 6.9 Developable Areas Within Lot 7 and Lot 12	No	N/A
Figure 6.10 Preliminary Assessment Results – Receivers Within Viewshed	No	N/A
Figure 6.11 Detailed Assessment Results – Visual Impacts Prior to Mitigation	No	N/A
Figure 6.12 Residual Visual Impact	No	N/A
Figure 6.13 Draft Landscape Plan	No	N/A
Figure 6.14 Sensitive Receivers, Noise Catchment Areas and Background Noise Monitoring Locations	No	N/A
Figure 6.15 Construction Scenario 1 and 7 – Predicted Noise Levels, LAeq (15min) dB(A)	No	N/A
Figure 6.16 Predicted Operational Noise Levels, LAeq(15 min) dB(A)	No	N/A
Figure 6.17 Hydrological Context	Yes	<b>Appendix 1</b>
Figure 6.18 Groundwater Dependant Ecosystems and Groundwater Bores	Yes	<b>Appendix 1</b>
Figure 6.19 Bushfire Prone Land	No	N/A
Figure 6.20 SIA Program Phases	No	N/A
Figure 6.21 NSW EPA Waste Hierarchy (EPA, 2014a)	No	N/A
Figure 6.22 Nearby Projects for Cumulative Impact Assessment	No	N/A

**Table 3.2 BDAR Figures**

BDAR Figure Number and Title	Update Required (Yes/ No)	Where Provided in this Report
Figure E.1 Summary of Avoidance	Yes	<b>Appendix 2</b>
Figure 1.1 Site Map	Yes	<b>Appendix 2</b>
Figure 1.2 Development Footprint	Yes	<b>Appendix 2</b>
Figure 1.3 Project Layout	Yes	<b>Appendix 2</b>
Figure 1.4 Biodiversity Values	Yes	<b>Appendix 2</b>
Figure 1.5 Excluded Impacts	Yes	<b>Appendix 2</b>
Figure 2.1 Vegetation Integrity Survey Plots	Yes	<b>Appendix 2</b>
Figure 2.2 Targeted Threatened Flora Survey Effort	Yes	<b>Appendix 2</b>
Figure 2.3 Targeted Threatened Fauna Survey Effort	Yes	<b>Appendix 2</b>
Figure 4.1 Native Vegetation Extent	Yes	<b>Appendix 2</b>
Figure 4.2 Plant Community Types and Vegetation Zones	Yes	<b>Appendix 2</b>
Figure 4.3 Threatened Ecological Communities	Yes	<b>Appendix 2</b>
Figure 5.1 Candidate Species-Credit Species Records in Project (Outside Subject Land)	Yes	<b>Appendix 2</b>
Figure 5.2 Ecosystem Species-Credit Species Records in Subject Land	Yes	<b>Appendix 2</b>



BDAR Figure Number and Title	Update Required (Yes/ No)	Where Provided in this Report
Figure 7.1 Constraints Mapping	No	N/A
Figure 7.2 Alternative Footprints Considered	Yes	<b>Appendix 2</b>
Figure 8.1 Final Impacts Likely to Occur on Subject Land	Yes	<b>Appendix 2</b>
Figure 9.1 White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC Impact Avoidance	Yes	<b>Appendix 2</b>
Figure 9.2 White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC NSW Extent	No	N/A
Figure 10.1 Thresholds for Assessing Offsetting Impacts	Yes	<b>Appendix 2</b>

**Table 3.3 AHCAR Figures**

ACHAR Figure Number and Title	Update Required (Yes/ No)	Where Provided in this Report
Figure 1.1 Locality and Regional Context	No	N/A
Figure 1.2 Project Conceptual Layout	No	N/A
Figure 3.1 Landscape Context	No	N/A
Figure 3.2 Geological Context	No	N/A
Figure 3.3 Excerpt from the 1843–1846 Bakers Map of the County of Argyle, showing early land grants in the region (the Project Area is circled in red)	No	N/A
Figure 3.4 Project Area in 1975	No	N/A
Figure 4.1 Three women mourning at a grave near Mount Wayo	No	N/A
Figure 4.2 Aboriginal weapons drawn by Govett in 1836-1837	No	N/A
Figure 4.3 AHIMS Search Results	No	N/A
Figure 4.4 Designated Landform Units Across the Project Area	No	N/A
Figure 5.1 Survey Results	No	N/A
Figure 5.2 Proposed Test Excavation Locations	No	N/A
Figure 5.3 An Overview of Test Unit Locations	No	N/A
Figure 5.4 Area A Test Excavation Location and Artefact Density	No	N/A
Figure 5.5 Area B Test Excavation Location and Artefact Density	No	N/A
Figure 5.6 Area C Test Excavation Location and Artefact Density	No	N/A
Figure 5.7 Area D Test Excavation Location and Artefact Density	No	N/A
Figure 5.8 Area E Test Excavation Location and Artefact Density	No	N/A
Figure 5.9 All Archaeological Sites in Project Area	No	N/A
Figure 6.1 Aboriginal Cultural Heritage Values	No	N/A
Figure 7.1 Development Footprint and Known Aboriginal Sites	Yes	<b>Appendix 3</b>
Figure 8.1 Archaeological Management Zones	No	N/A

## 4.0 Statutory Context

Since exhibition of the EIS, there has not been any significant changes to the statutory context for the Project. A summary of the status of the NSW and Commonwealth approvals processes is provided below.

### 4.1 NSW Assessment and Approval Process

The statutory context has not changed from the original application, as documented in the EIS. The EIS is yet to be determined.

Following submission of the EIS to DPHI, it was placed on public exhibition from 15 November to 12 December 2024. A Submissions Report has been prepared to address submissions received during public exhibition. Additionally, this Amendment Report has been prepared in accordance with clause 113 of the Environmental Planning and Assessment Regulation 2021 which states that an application may, with the approval of the Planning Secretary, be amended at any time before the application is determined.

The Planning Secretary has been advised of Lightsource bp's intention to amend the Project with this Amendment Report.

### 4.2 Commonwealth Assessment and Approval Process

As noted in Section 4.0 of the EIS, a referral for the Project under the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) was submitted to the Department of Climate Change, Energy, the Environment and Water (DCCEEW) on 13 March 2023. On 13 September 2023, the DCCEEW issued the EPBC Referral decision that the Project is Not a Controlled Action.

## 5.0 Engagement

As noted in **Section 1.1**, Lightsource bp has continued to consult with relevant government agencies, Council, landholders and the community following the exhibition of the EIS to resolve any matters raised in the submissions, and where appropriate, confirm project refinements and additional management and mitigation measures. Details of the ongoing consultation following the EIS exhibition are provided in Section 3.0 of the Submissions Report.

## 6.0 Assessment of Impacts

As discussed in **Section 3.0**, no updates to the environmental assessments undertaken as part of the EIS were required as part of the preparation of this Amendment Report.

## 7.0 Updated Justification and Evaluation of the Project

This Amendment Report has been prepared to provide updated figures relevant to the Project EIS.

Following the exhibition of the EIS, Lightsource bp has continued to consult with relevant government agencies, Council, landholders and the community more broadly. Consideration of submissions received, and ongoing consultation has led to some Project refinements. These are:

- Increased community benefits via the Community Benefit Sharing Strategy developed for the Project.
- Additional management and mitigation measures.

Whilst no changes are proposed to the Project as described in Section 3.0 of the EIS, an update to the boundary of the Development Footprint, as presented on some figures within the EIS (including the BDAR and AHCAR) was required which are provided in this Amendment Report. The justification and evaluation of the Project as described in Section 8.0 of the EIS remains relevant and appropriate for the Project. This section provides a summary of the project justification and evaluation as presented in the EIS.

### 7.1 Environmental, Social and Economic Impacts

As discussed in the EIS, the Project has been designed using an iterative approach, commencing with landholder discussion and preliminary constraints analysis, as detailed in the Scoping Report (Umwelt, 2022) to confirm the suitability of the site for a solar farm development. Since then, the layout of the Project including the solar arrays, BESS, electrical reticulation infrastructure, internal access tracks and other supporting infrastructure has been subject to ongoing refinement with the aim of minimising associated environmental and social impacts and addressing feedback from the local community and key stakeholders. The environmental, social and economic impacts of the Project have been identified and subject to a detailed assessment based on:

- Assessment of the site characteristics (existing environment).
- Consultation with relevant government agencies.
- Engagement with local community and other stakeholders.
- Environmental and social risk analysis.
- Application of the principles of Ecologically Sustainable Development (ESD), including the precautionary principle, inter-generational equity and conservation of biological diversity and ecological integrity.
- Expert technical assessment.



The key issues identified were subject to comprehensive specialist assessment to identify the potential impacts of the Project on the existing environment. These assessments are detailed in Section 6.0 of the EIS (including appendices), with further assessment also considered in Section 3.3 of the Submissions Report. Lightsource bp has made further refinements to the Project based on feedback received from the local community and key stakeholders throughout its development. Lightsource bp has considered a range of alternatives in planning the Project and in determining the concept layout throughout the process (refer to Section 2.9 of the EIS). The Project layout and design was subject to a number of iterations, responding to both environmental constraints and community concerns through refinement of the layout and the overall Project approach. Through the implementation of best practice management, the potential environmental and cultural heritage impacts associated with the Project can be appropriately avoided or managed, which will also address the community concerns and associated social impacts identified during the stakeholder engagement process.

The Project will also contribute significant capital investment within the Goulburn Mulwaree region, generate jobs during the construction and operational phases, provide indirect benefits to local services throughout the life of the Project (e.g. indirect employment creation in local and regional economies would include jobs supported through transportation, trade supplies, services, accommodation, catering, retail services, etc.), deliver additional income to host and other associated landowners, and provide benefits to the local community through the implementation of the proposed VPA with Goulburn Mulwaree Council.

## 7.2 Ecologically Sustainable Development

An objective of the NSW *Environmental Planning and Assessment Act 1979* is to encourage ESD within NSW. To justify the Project with regard to the principles of ESD, the benefits of the Project in an environmental and socio-economic context should outweigh any negative impacts. The principles of ESD encompass the following:

- the precautionary principle
- inter-generational equity
- conservation of biological diversity
- valuation and pricing of resources.

Essentially, ESD requires that current and future generations should live in an environment that is of the same or improved quality than the one that is inherited. A full analysis of the Project against the principles of ESD is provided in Section 8.3 of the EIS. As detailed in the EIS, the Project is considered to be consistent with the principles of ESD. Lightsource bp has made minor refinements to the Project since the EIS as outlined in Section 3.2 of the Submissions Report. It is considered that the Project continues to be consistent with the principles of ESD. Extensive management and mitigation measures will be implemented, including monitoring programs to measure predicted against actual impacts of the Project (refer to Appendix 2 of the Submissions Report).

## 7.3 Conclusion

As discussed in the EIS, the Project is a direct response to the NSW and Commonwealth's Government's commitments to transition to renewable electricity generation in NSW. The NEM needs to rapidly transition to renewable energy to support the NSW Climate Change Policy Framework, as well as the Commonwealth Government's commitments under the Paris Agreement. At present, additional renewable energy capacity is being added to the NEM at a lower rate than what the AEMO has identified as required to achieve the transition to renewable energy (Parkinson, 2023), and the NSW government is looking to streamline renewable energy development approvals in the planning system to deliver the transition to renewables under the Energy Roadmap (NSW Government, 2023).

The Project will materially assist in addressing this shortfall by delivering renewable energy capacity to the NEM to help reduce the need to keep coal fired power stations like Eraring Power Station online beyond their current committed retirement date (AFR, 2023). The Project will also support the firming and storage of renewable energy in NSW through the development of a BESS within the Project Area.

The Project represents an essential part of the energy transition with a fully optimised constructible design. The Project EIS confirms that, while there will be some unavoidable impacts, the extent of these impacts has been minimised through the design process to the extent practicable and appropriate management and mitigation measures have been committed to address the residual impacts. Given the commitment from Lightsource bp to appropriately manage the potential environmental impacts associated with the Project, it is considered the Project would result in a net benefit to the region and broader NSW community. The Project aligns with the principals of ESD and is considered to be satisfied, due to the social, economic and environmental benefits.

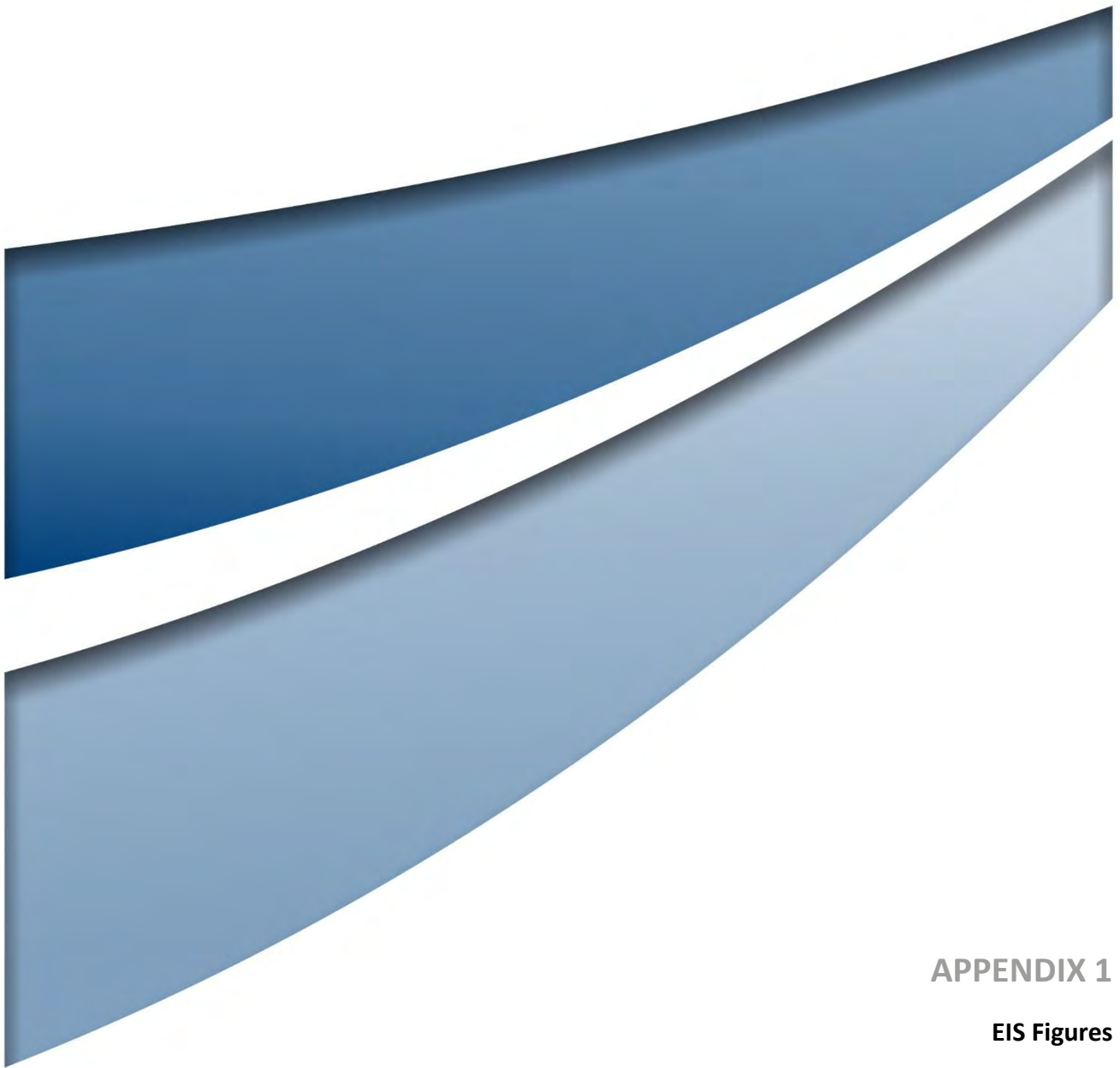
## 8.0 References

Department of Planning, Housing and Infrastructure (DPHI), 2022. Large-Scale Solar Energy Guideline. Reference number: DOC24/867426.

Department of Planning, Infrastructure and Environment (DPIE), 2022. State Significant Infrastructure Guidelines – Preparing an Amendment Report.

Umwelt, 2024. Gundry Solar Farm Environmental Impact Statement. Prepared for Lightsource bp.

Umwelt, 2025. Gundry Solar Farm Submissions Report. Prepared for Lightsource bp.

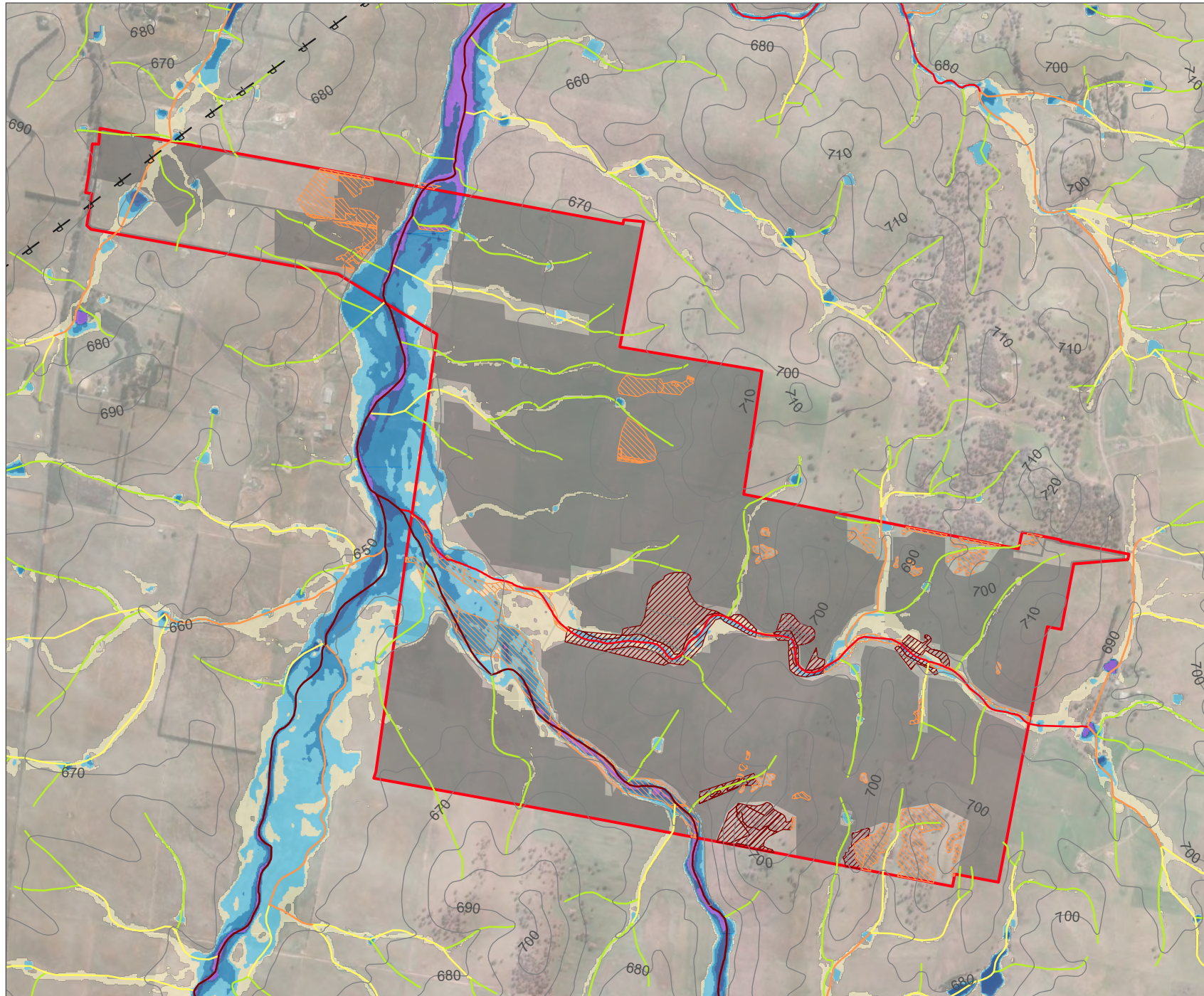


## APPENDIX 1

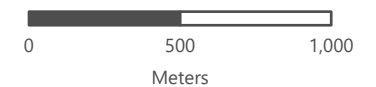
### EIS Figures



**FIGURE 1.2**  
Constraints Map



- Legend**
- Project Area
  - Development Footprint
  - 10 m Contours
  - P Existing Transmission Line
- Strahler Stream Ordering**
- 1
  - 2
  - 3
  - 4
  - ≥ 5
- Ecological Constraint**
- High
  - Moderate
- Depth of Predicted Flood Water (m) (1% AEP)**
- < 0.5
  - 0.5 - 1.0
  - 1.0 - 1.5
  - 1.5 - 2.0
  - > 2.0



Scale: 1:0 at A4  
GDA 1994 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt

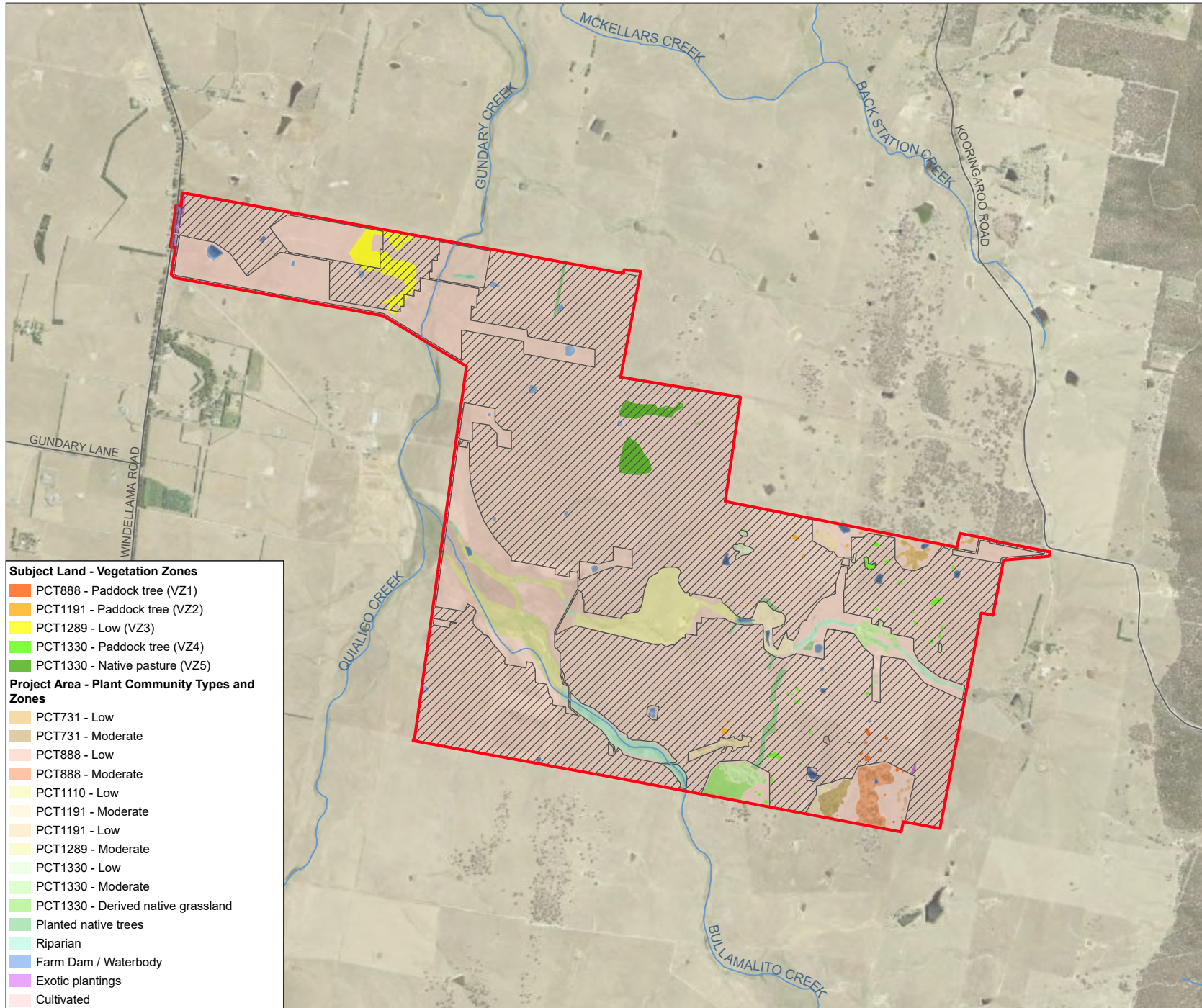


**FIGURE 6.4**

## Plant Community Types and Vegetation Zones

**Legend**

- Project Area
- ▨ Development Footprint
- Road
- Watercourse



0 500 1,000  
Metres

Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt



**FIGURE 6.5**

## Threatened Ecological Communities

### Legend

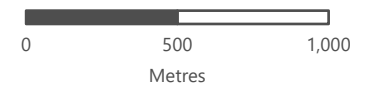
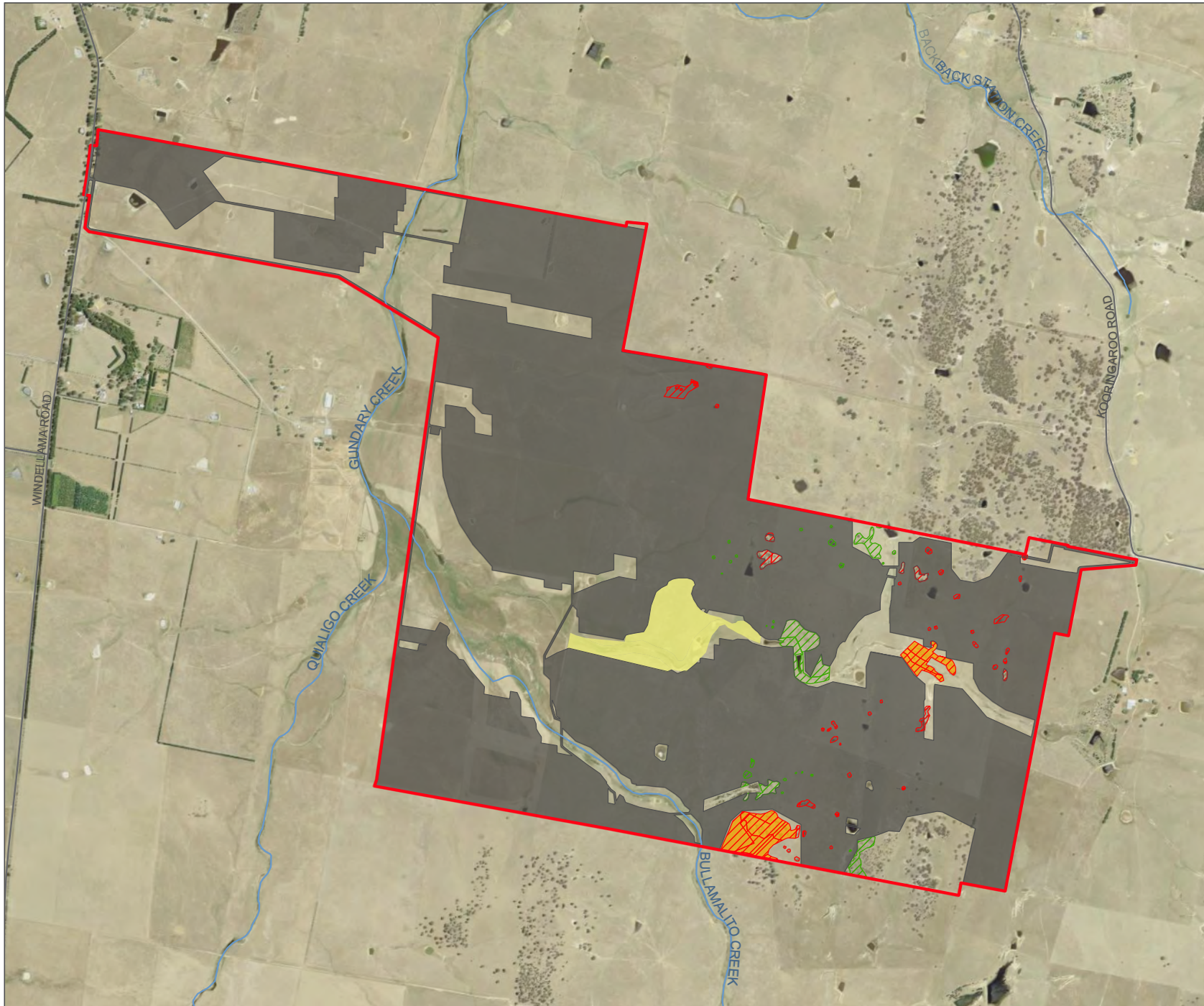
- Project Area
- Subject Land
- Road
- Watercourse

### Threatened Ecological Community - NSW

- Werriwa Tablelands Cool Temperate Grassy Woodland in the South Eastern Highlands and South East Corner Bioregions (1191)
- White Box – Yellow Box – Blakely's Red Gum Grassy Woodland and Derived Native Grassland (1330)

### Threatened Ecological Community - Commonwealth

- Natural Temperate Grassland of the South Eastern Highlands (1289)
- White Box – Yellow Box – Blakely's Red Gum Grassy Woodland and Derived Native Grassland (1330)



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt

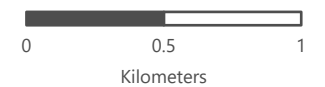
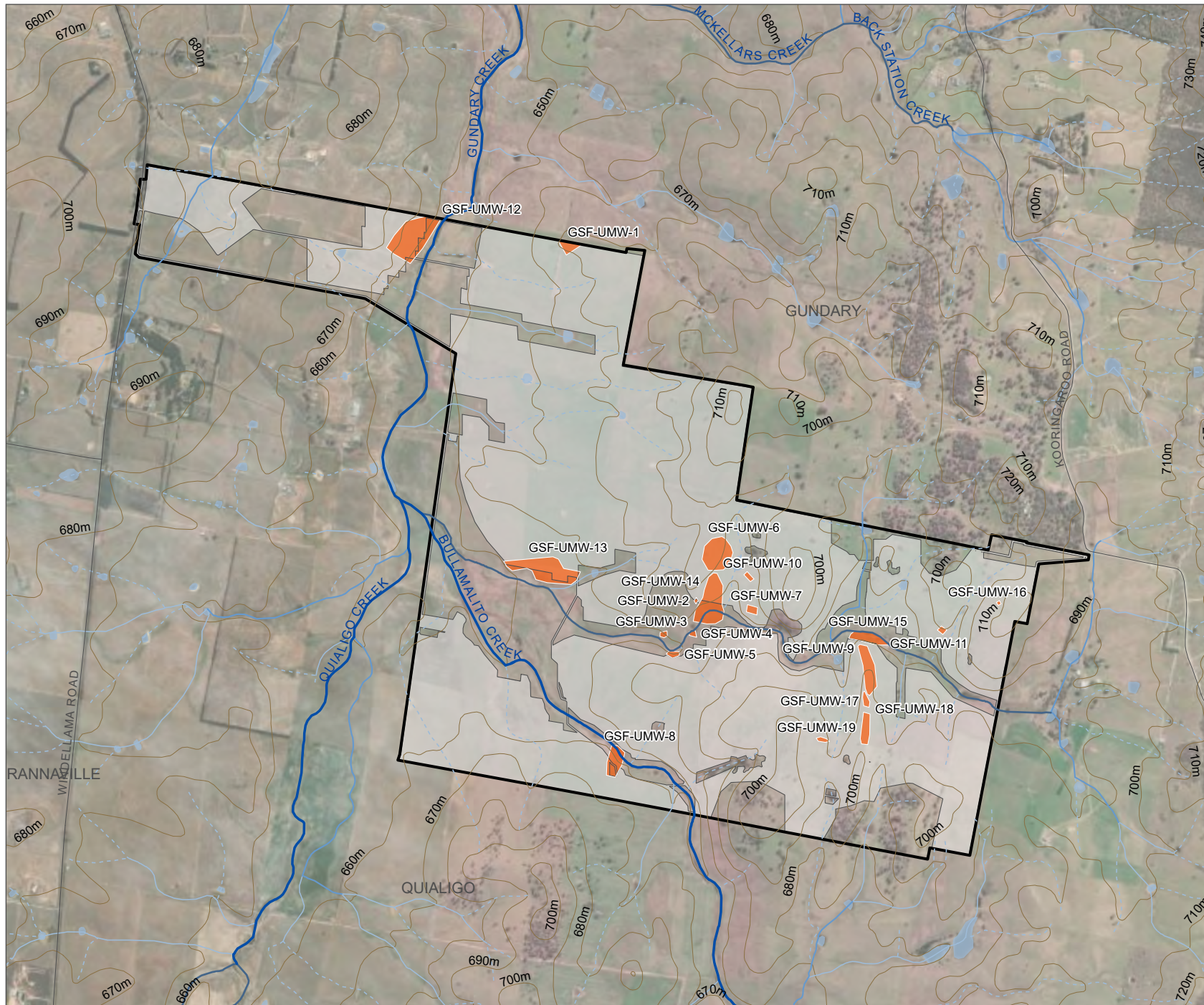


**FIGURE 6.6**

## Development Footprint and Known Archaeological Sites

### Legend

- Road
  - Contours (10m)
  - ▭ Project Area
  - Waterbody
  - All Archaeological Sites in Project Area
  - Development Footprint
- Strahler Stream Order**
- 1st Order Stream
  - 2nd Order Stream
  - 3rd Order Stream
  - 4th Order Stream
  - 5th Order Stream or Higher



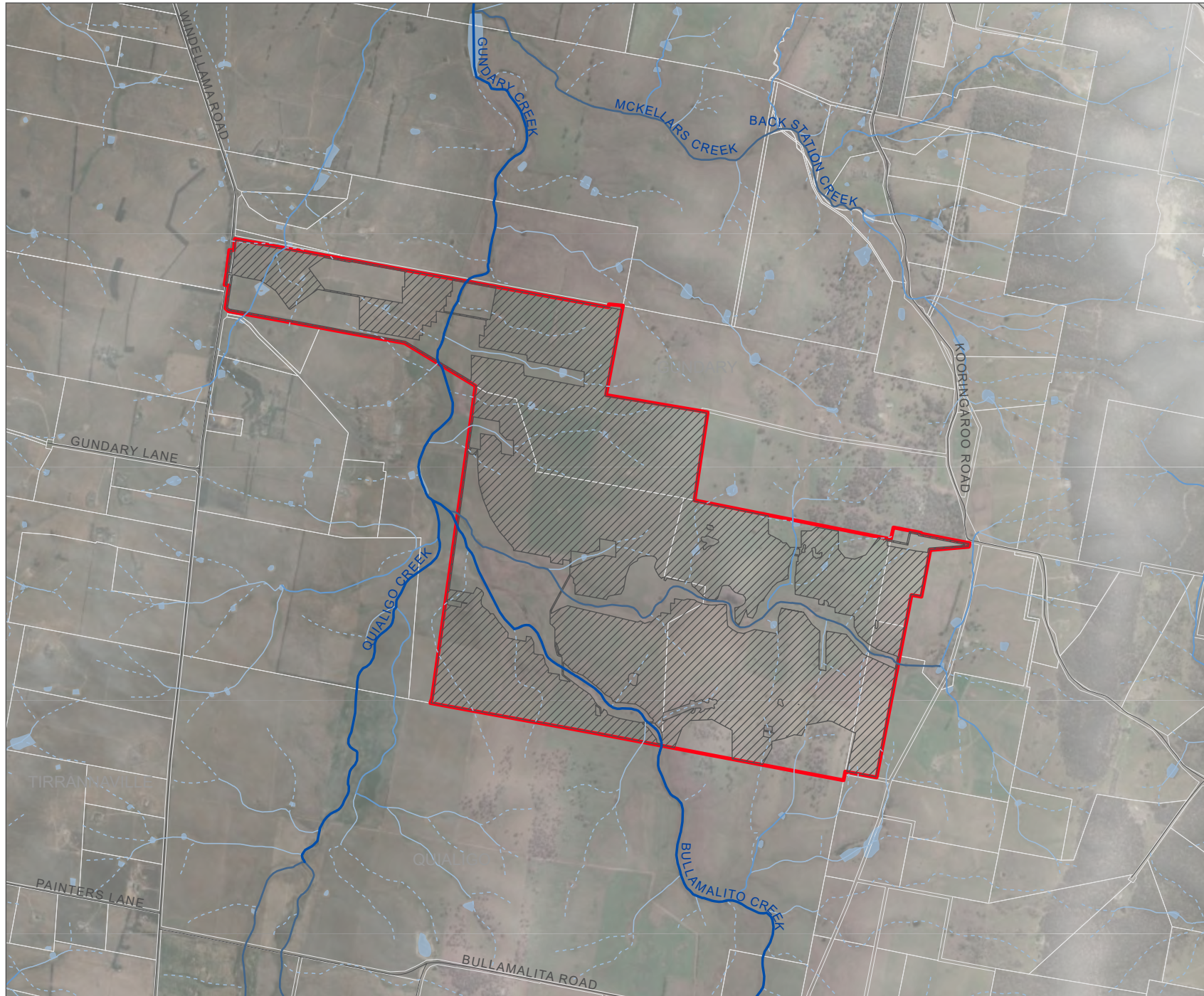
Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt



**FIGURE 6.17**  
Hydrological Context



- Legend**
- Project Area
  - ▨ Development Footprint
  - Cadastre Boundaries
  - Waterbody
  - Roads
  - Strahler Stream Order**
    - 1st Order Stream
    - 2nd Order Stream
    - 3rd Order Stream
    - 4th Order Stream
    - 5th Order Stream or Higher



0 500 1,000  
Meters

Scale: 1:0 at A4  
GDA 1994 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt



**FIGURE 6.18**

## Groundwater Dependent Ecosystems and Groundwater Bores

### Legend

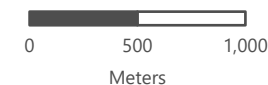
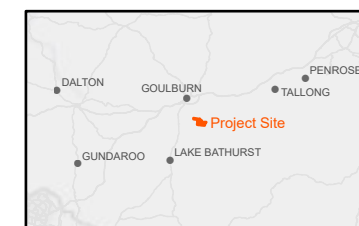
- Project Area
- Development Footprint
- Cadastre Boundaries
- Waterbody
- Watercourse (Perennial)
- Watercourse (Non-perennial)
- Roads
- Groundwater Borehole

### Groundwater Dependent Ecosystem - Aquatic

- High potential GDE - from national assessment
- Moderate potential GDE - from national assessment

### Groundwater Dependent Ecosystem - Terrestrial

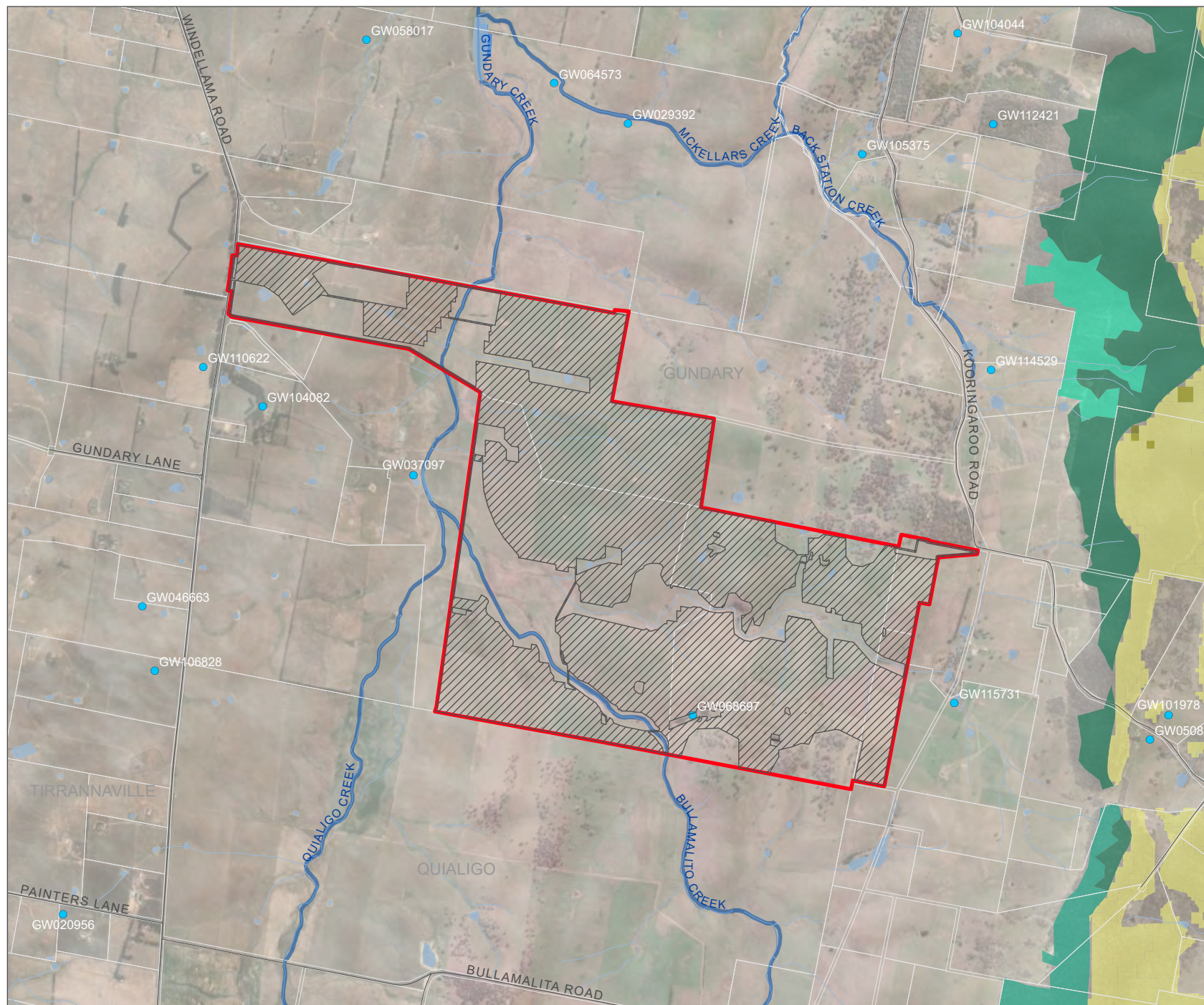
- High potential GDE - from national assessment
- Moderate potential GDE - from national assessment
- Low potential GDE - from national assessment
- High potential GDE - from regional studies
- Moderate potential GDE - from regional studies
- Low potential GDE - from regional studies

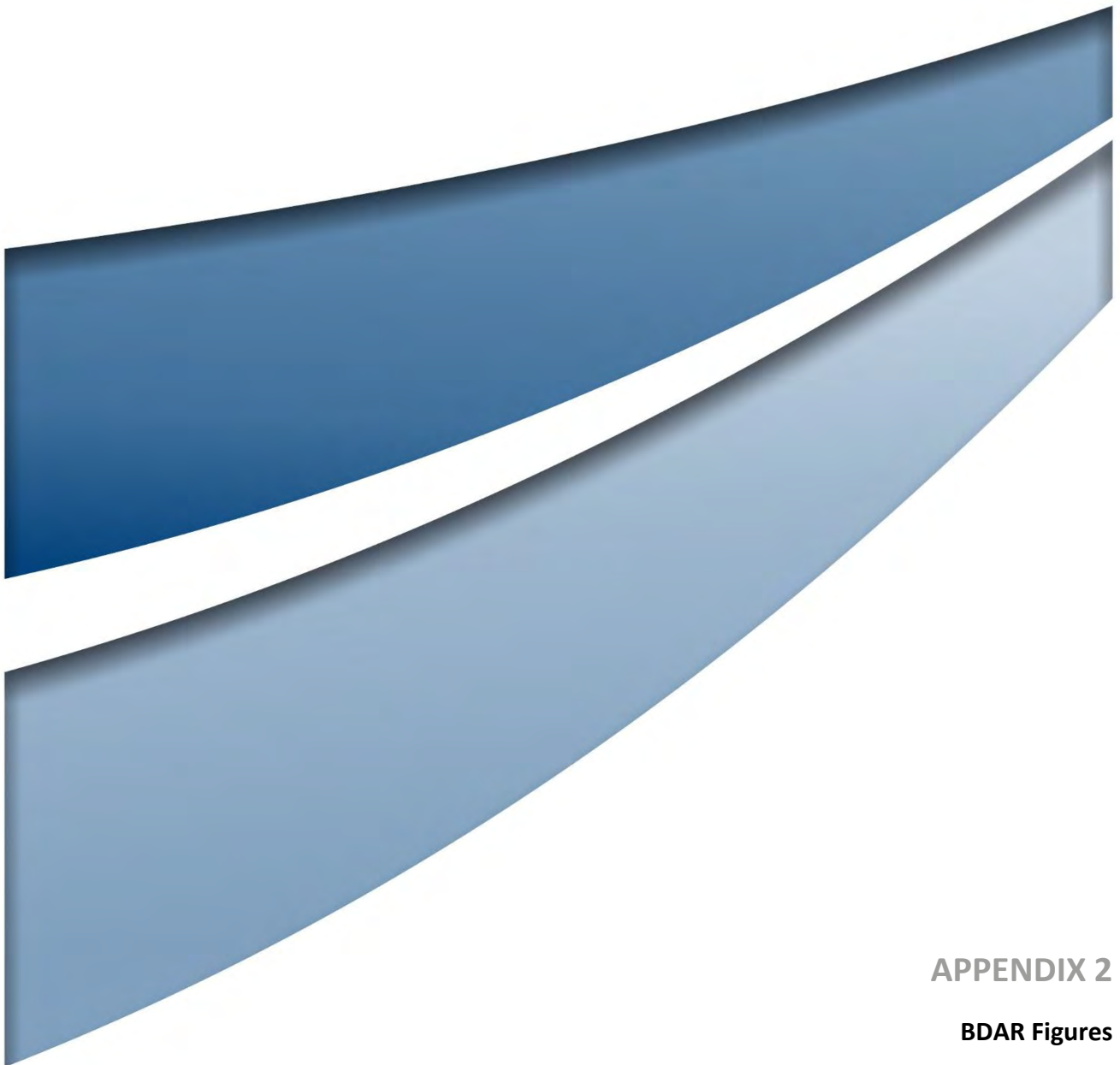


Scale: 1:0 at A4  
GDA 1994 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document or the information.

APPROVED FOR AND ON BEHALF OF Umwelt



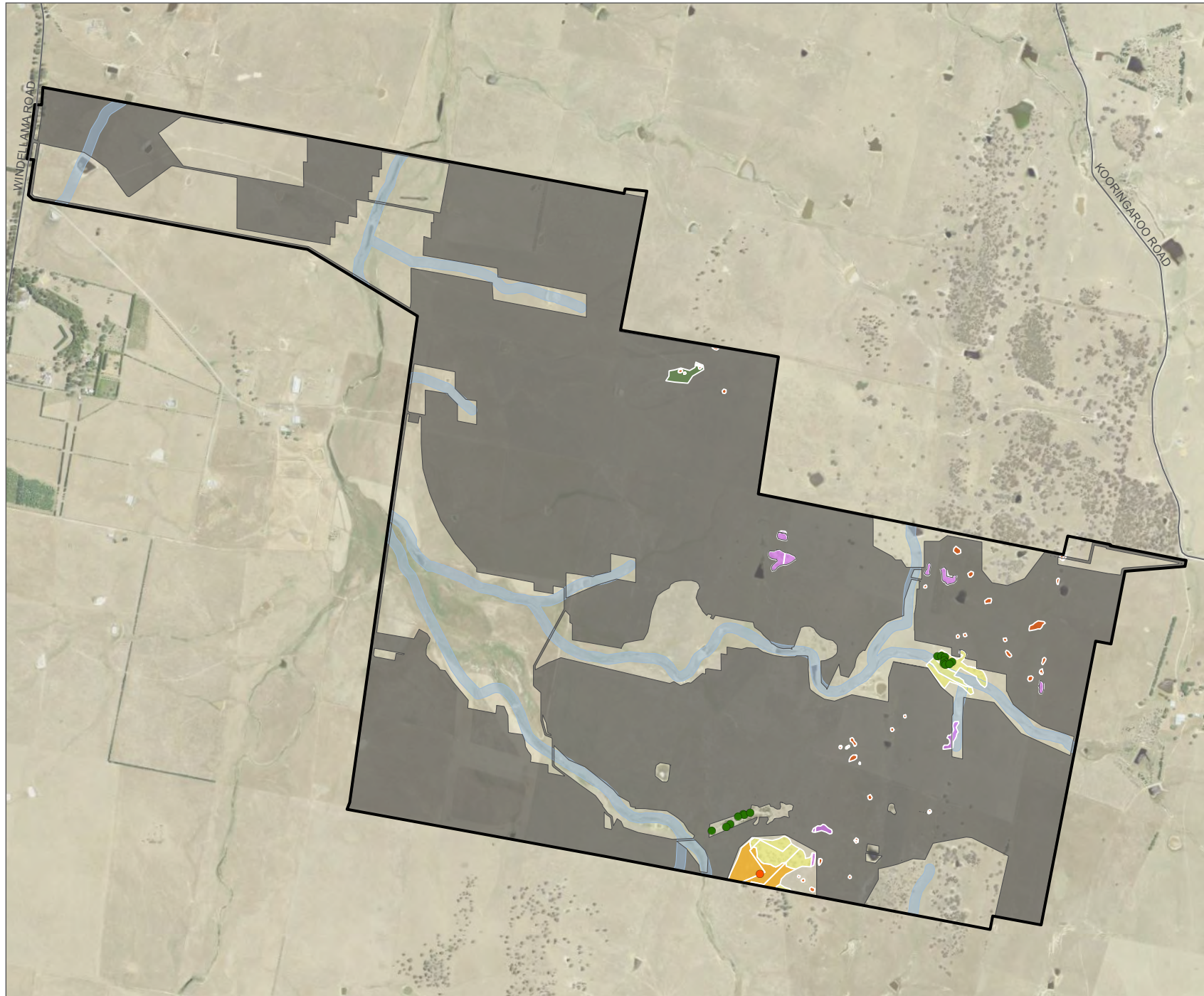


## APPENDIX 2

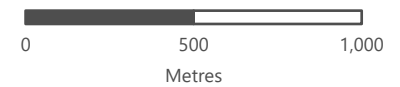
**BDAR Figures**



**FIGURE E.1**  
Summary of Avoidance



- Legend**
- Road
  - ▬ Project Area
  - Subject Land
  - 20m Watercourse Buffer
- Avoided Threatened Species**
- *Eucalyptus macarthurii*
  - Keys Matchstick Grasshopper
- Box Gum Woodland CEEC**
- Low
  - Moderate
  - Derived Native Grassland
  - Paddock Trees
  - Native Pasture



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document or the information.

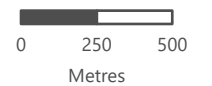
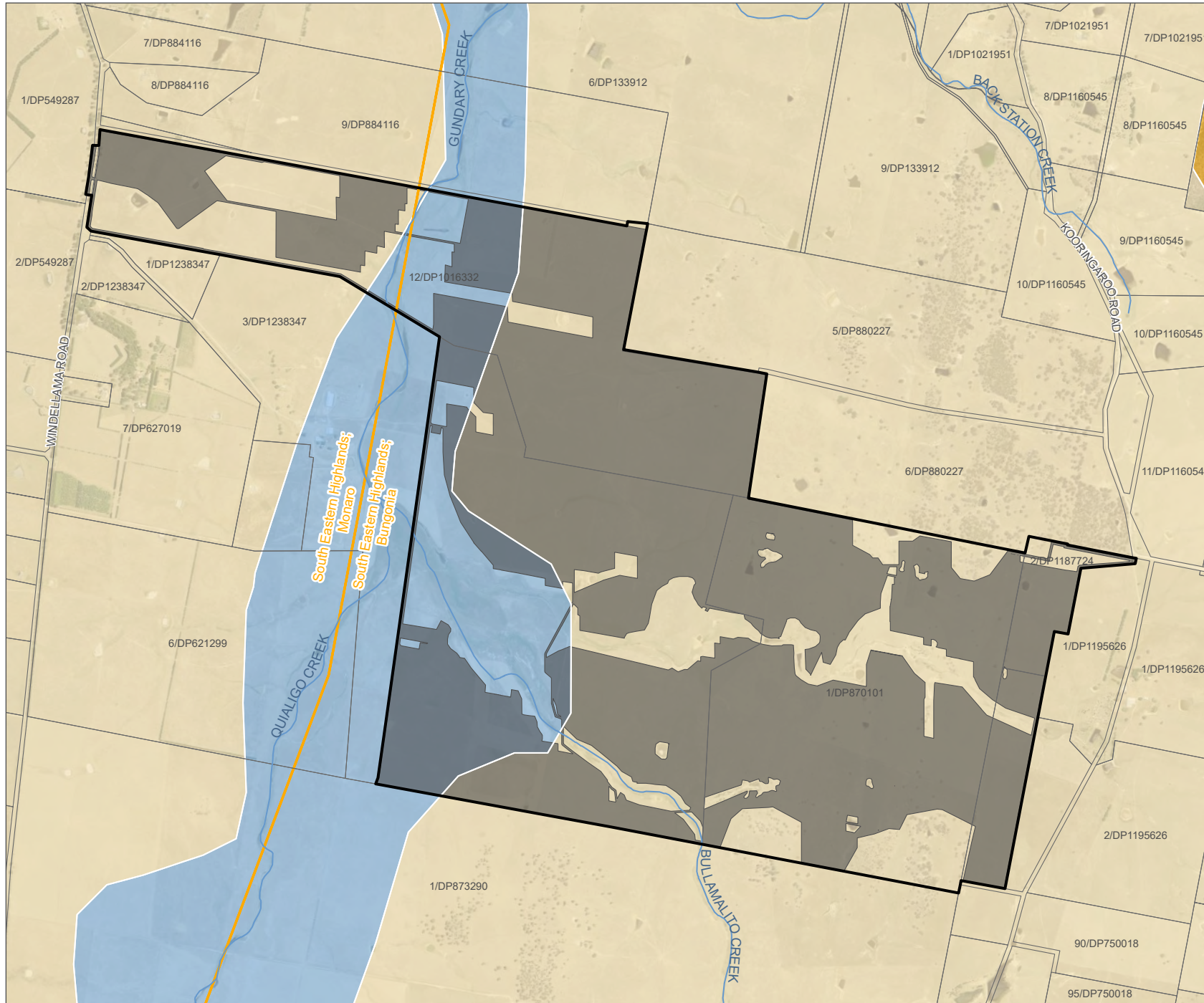
APPROVED FOR AND ON BEHALF OF Umwelt



**FIGURE 1.1**

## Site Map

- Legend**
- Watercourse
  - Lot Boundary
  - Project Area
  - Subject Land
  - IBRA Sub-regions
  - Mitchell Landscapes**
    - Breadabane Swamps and Lagoons
    - Gundary Plains
    - Towrang Ranges



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

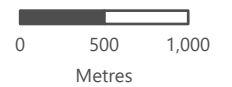
APPROVED FOR AND ON BEHALF OF Umwelt



# FIGURE 1.2

## Location Map

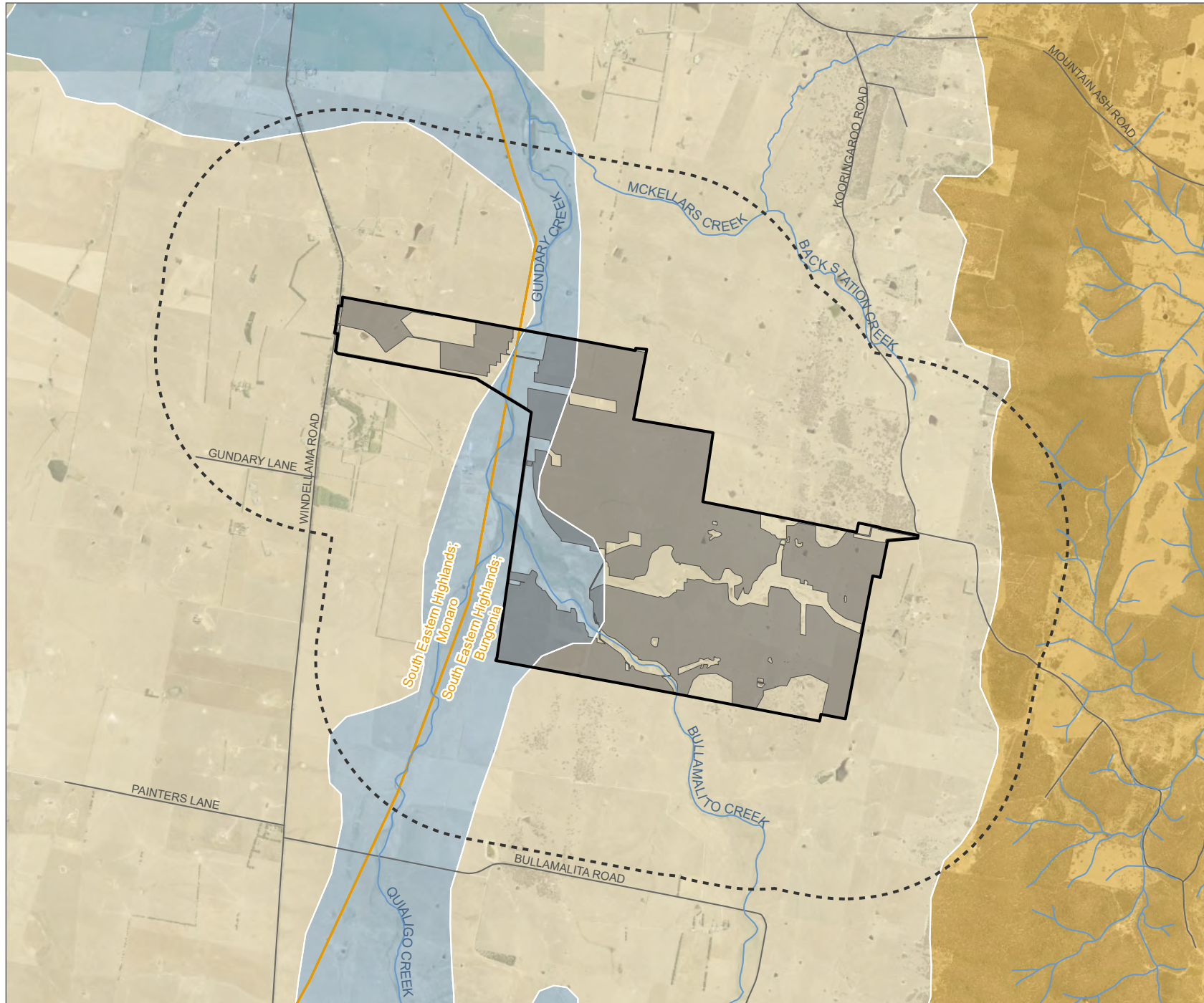
- Legend**
- Road
  - Watercourse
  - Lot Boundary
  - ▭ Project Area
  - ▭ Subject Land
  - ▭ Assessment Area
  - ▭ IBRA Sub-regions
  - Mitchell Landscapes**
    - Breadalbane Swamps and Lagoons
    - Gundary Plains
    - Towrang Ranges



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

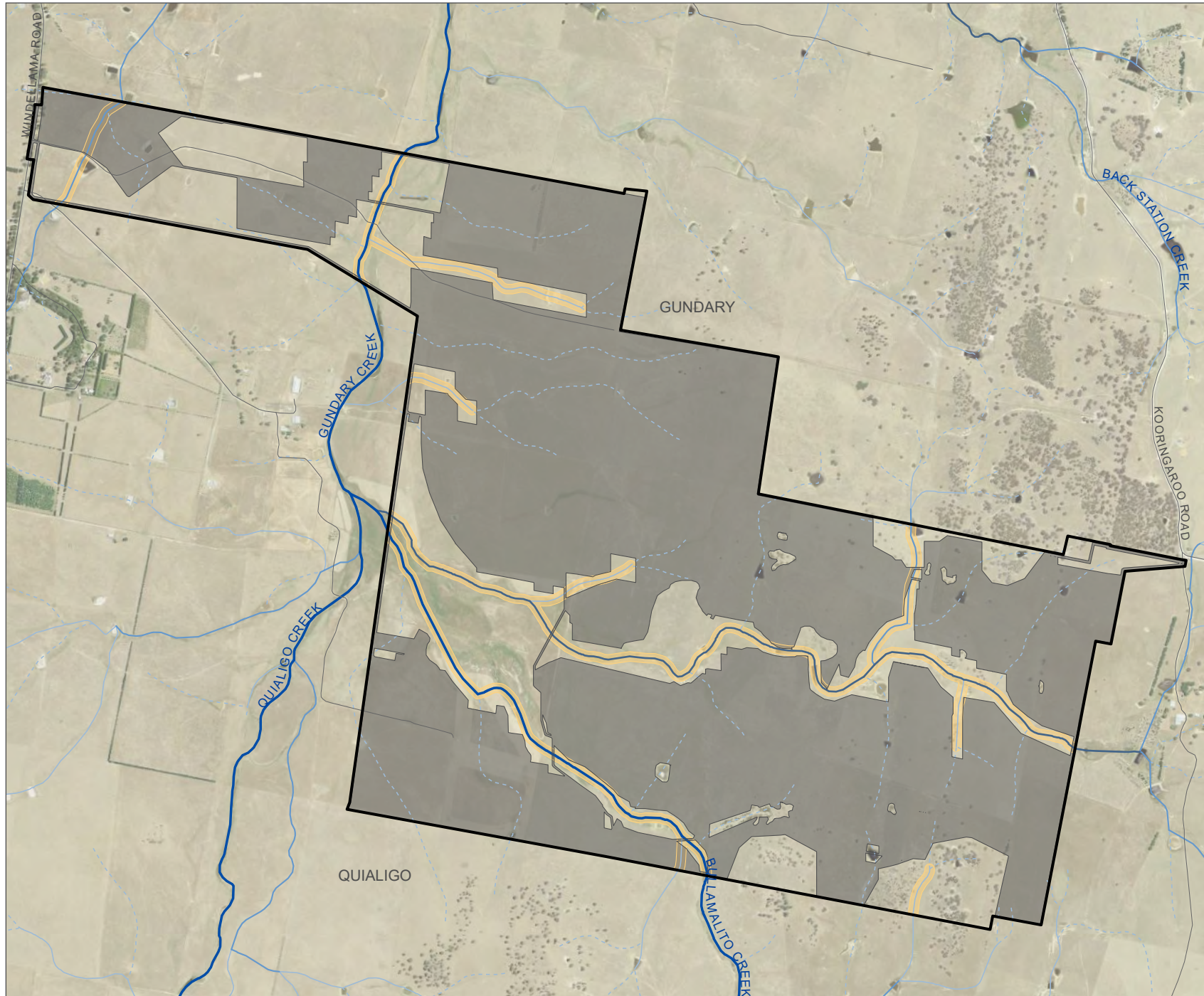
This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt





**FIGURE 1.3**  
**Development Footprint**



- Legend**
- Roads
  - Project Area
  - Subject Land
  - 20m Watercourse Buffer
  - Strahler Stream Order**
  - 1st Order Stream
  - 2nd Order Stream
  - 3rd Order Stream
  - 4th Order Stream
  - 5th Order Stream or Higher



0 500 1,000  
Metres

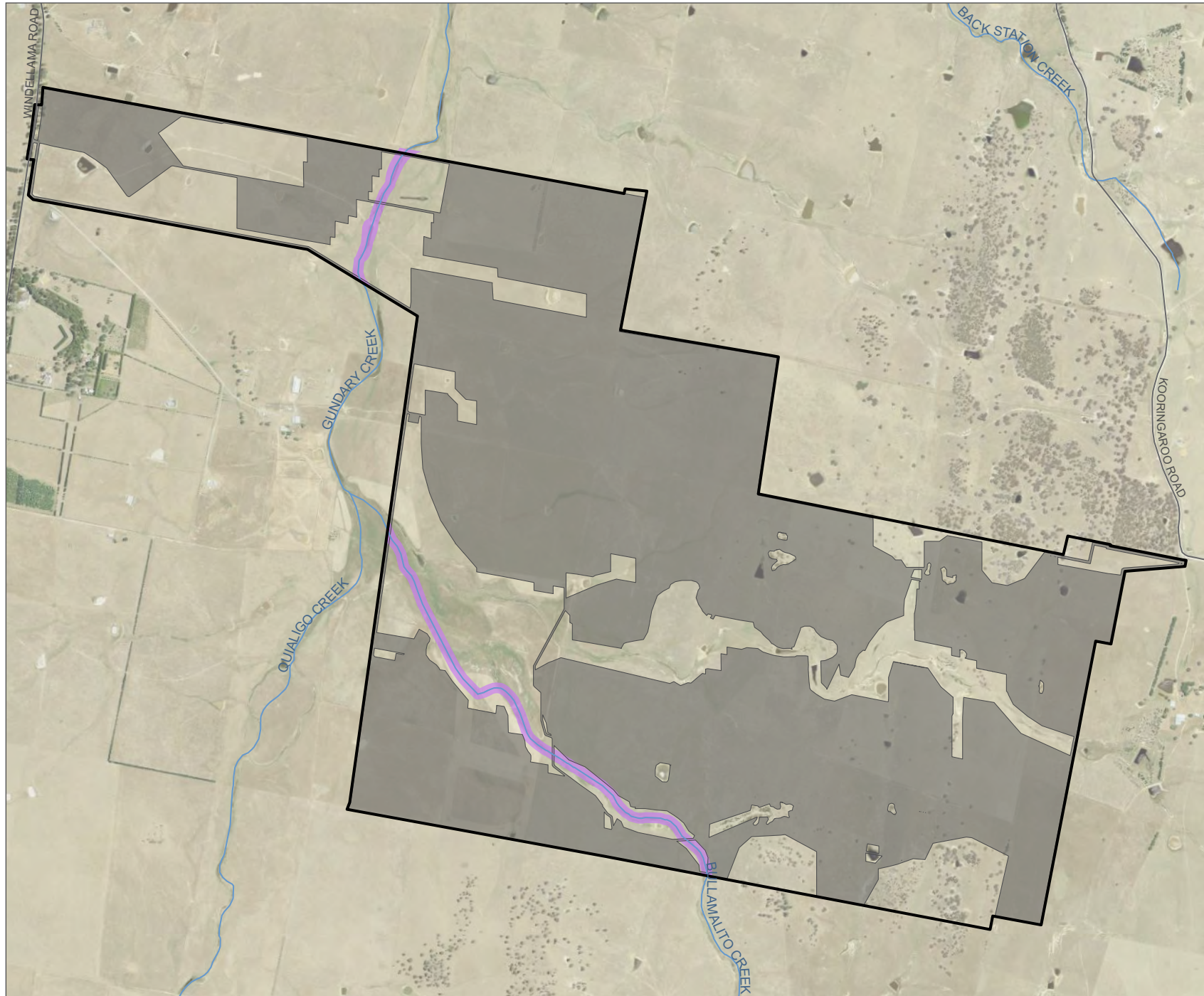
Scale: 1:0 at A4  
GDA 1994 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document or the information.

APPROVED FOR AND ON BEHALF OF Umwelt

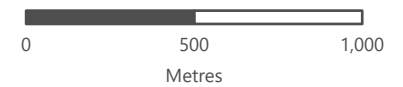


**FIGURE 1.4**  
Biodiversity Values



**Legend**

- Road
- Watercourse
- ▬ Project Area
- Subject Land
- Biodiversity Values



Scale: 1:0 at A4  
GDA 1994 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document or the information.

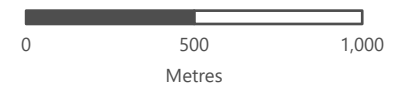
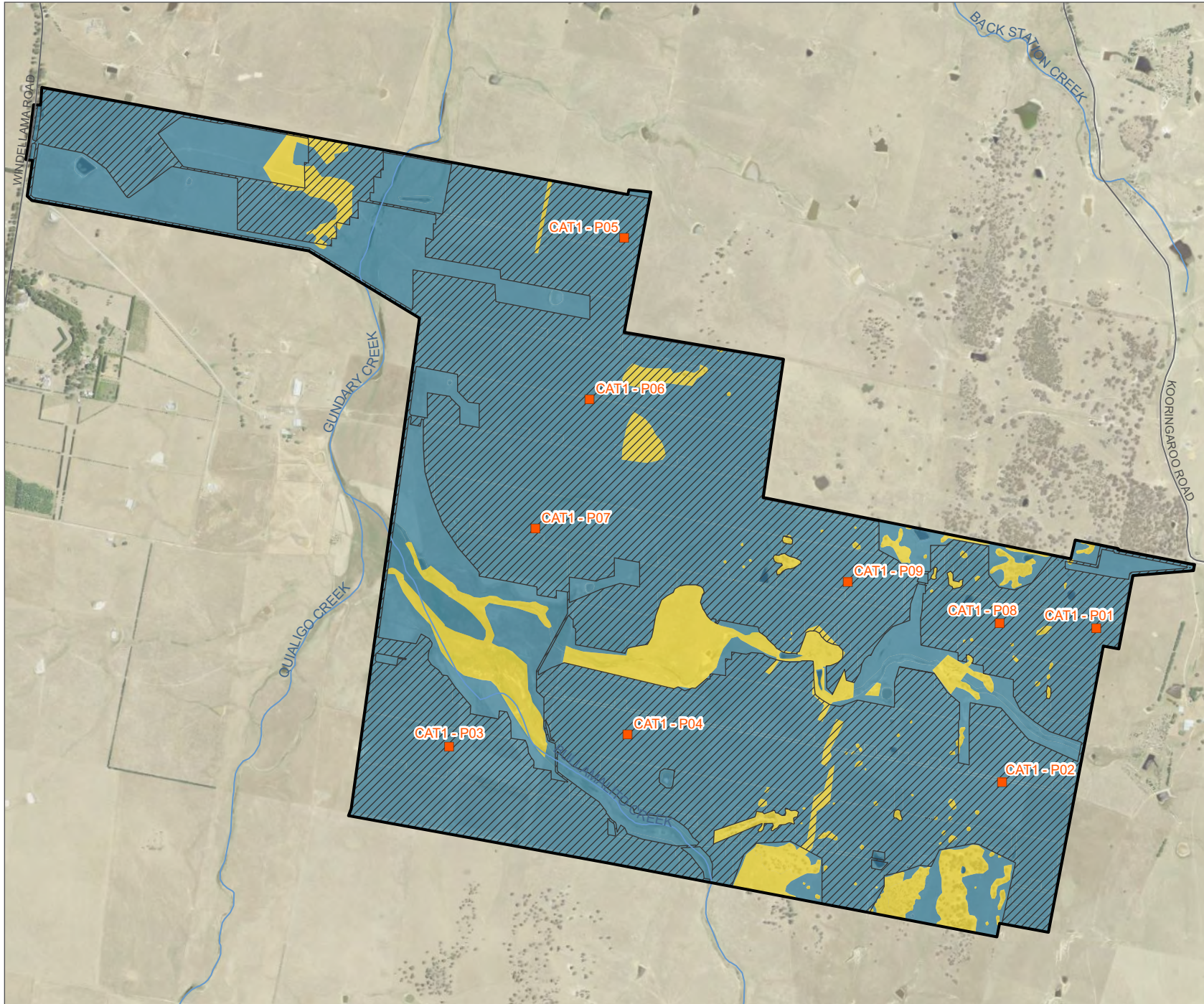
APPROVED FOR AND ON BEHALF OF Umwelt



**FIGURE 1.5**

## Excluded Impacts

- Legend**
- Road
  - Watercourse
  - ▭ Project Area
  - ▨ Subject Land
  - BAM Plot
  - Category Land Mapping**
    - Category 1
    - Category 2



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt



**FIGURE 2.1**

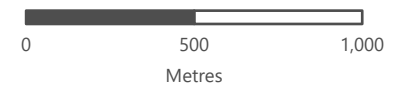
## Vegetation Integrity Survey Plots

### Legend

- Road
- Watercourse
- Subject Land
- ▭ Project Area
- BAM Plot

### Plant Community Types and Zones

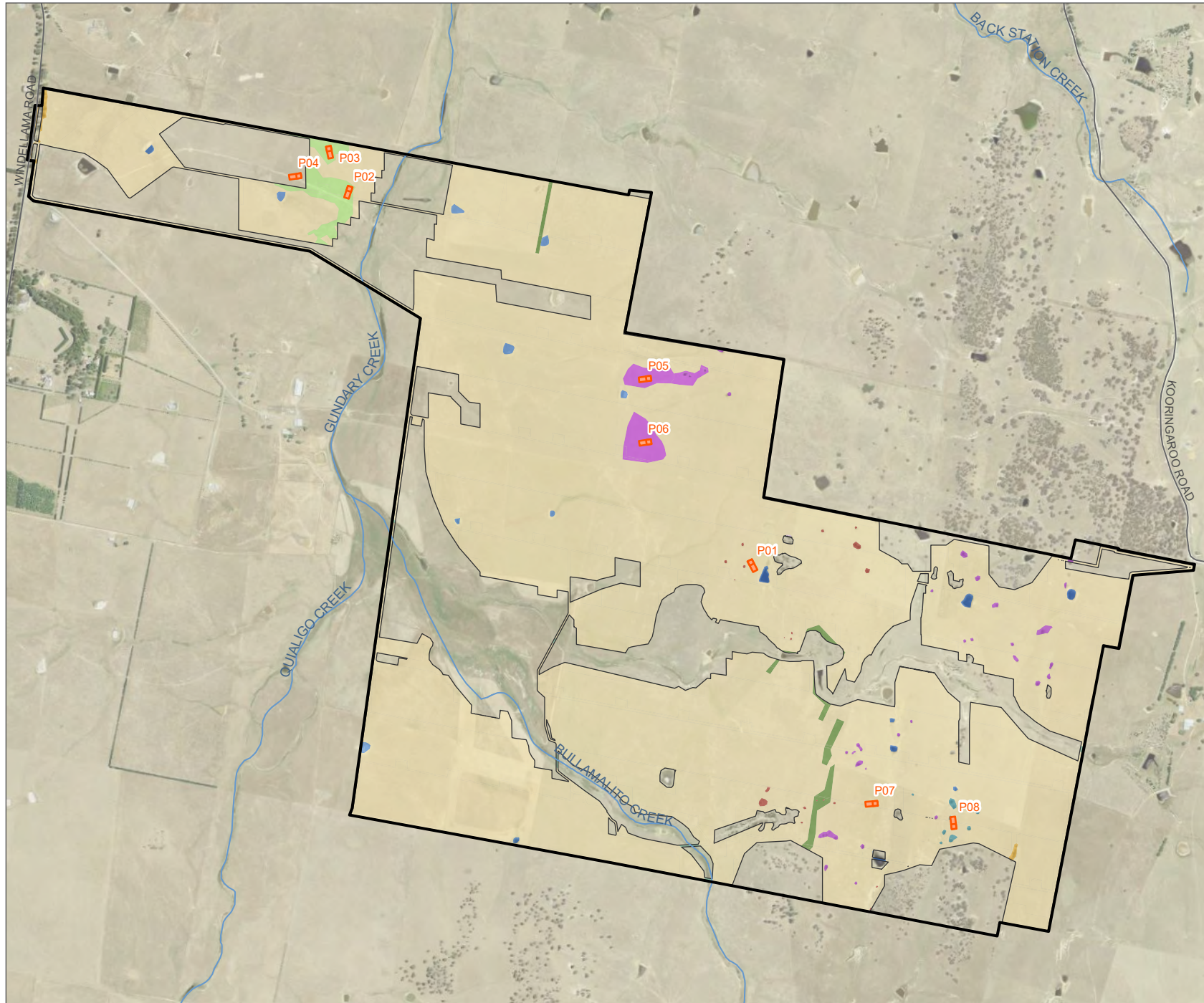
- PCT1330 - Low
- PCT1330 - Moderate
- PCT1330 - Native pasture
- PCT1330 - Paddock tree
- PCT1289 - Low
- PCT1289 - Moderate
- PCT1191 - Low
- PCT1191 - Paddock tree
- PCT888 - Paddock tree
- Planted native trees
- Waterbody
- Cultivated
- Exotic plantings
- Riparian



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt



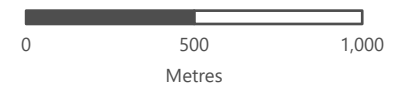
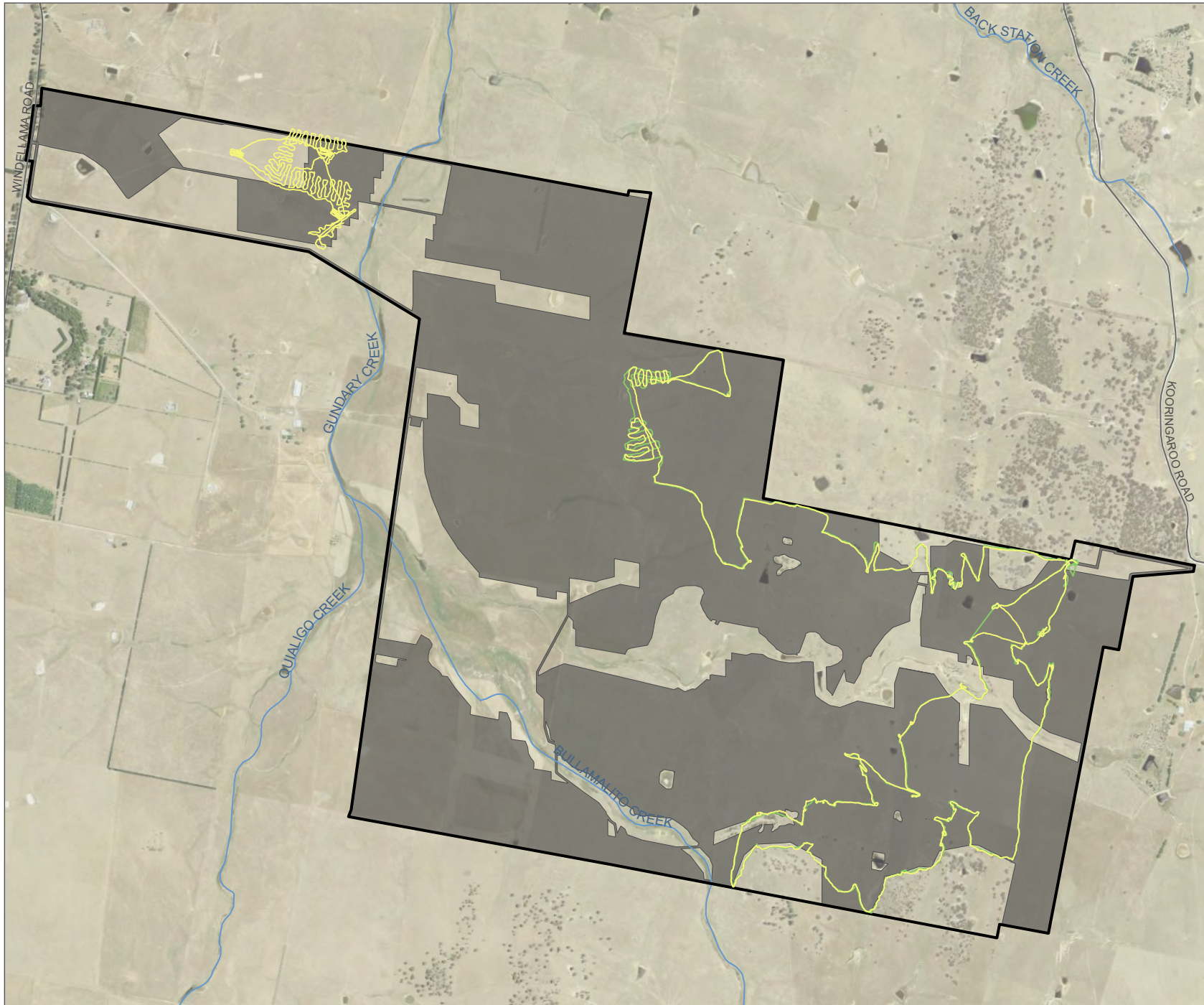


**FIGURE 2.2**

## Targeted Threatened Flora Survey Effort

**Legend**

- Road
- Watercourse
- Project Area
- Subject Land
- Trees and Shrubs
- Herbs and Forbs



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt

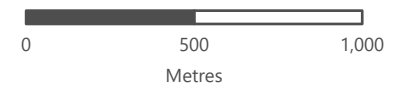
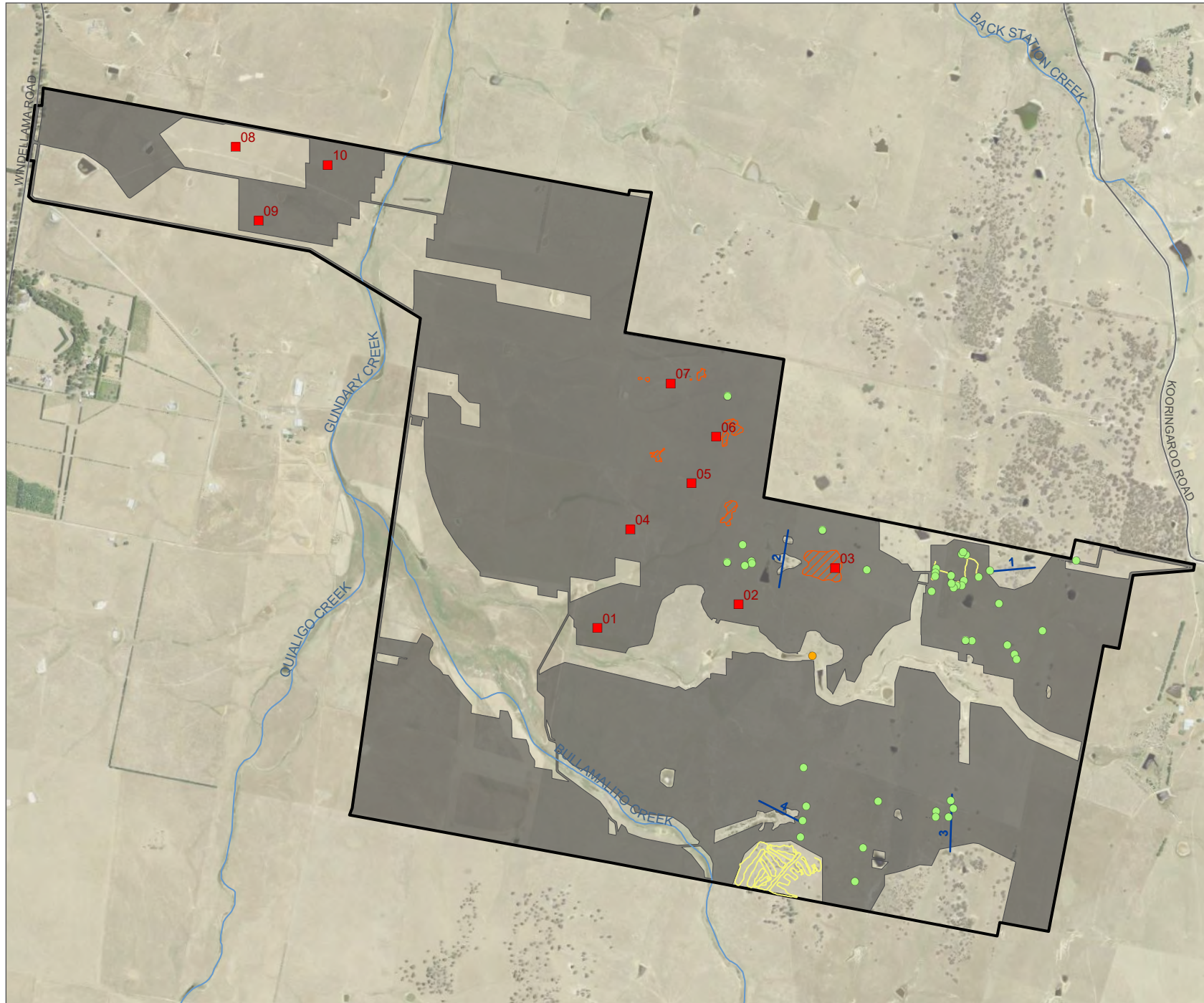


**FIGURE 2.3**

## Targeted Threatened Fauna Survey Effort

### Legend

- Road
- Watercourse
- ▭ Project Area
- Subject Land
- Striped Legless Lizard Tile Array
- Koala Scat Search Locations
- Anabat Points
- Koala Spotlighting Transects
- Keys Matchstick Grasshopper Targeted Survey
- ▨ Pink-tailed Worm Lizard Targeted Survey



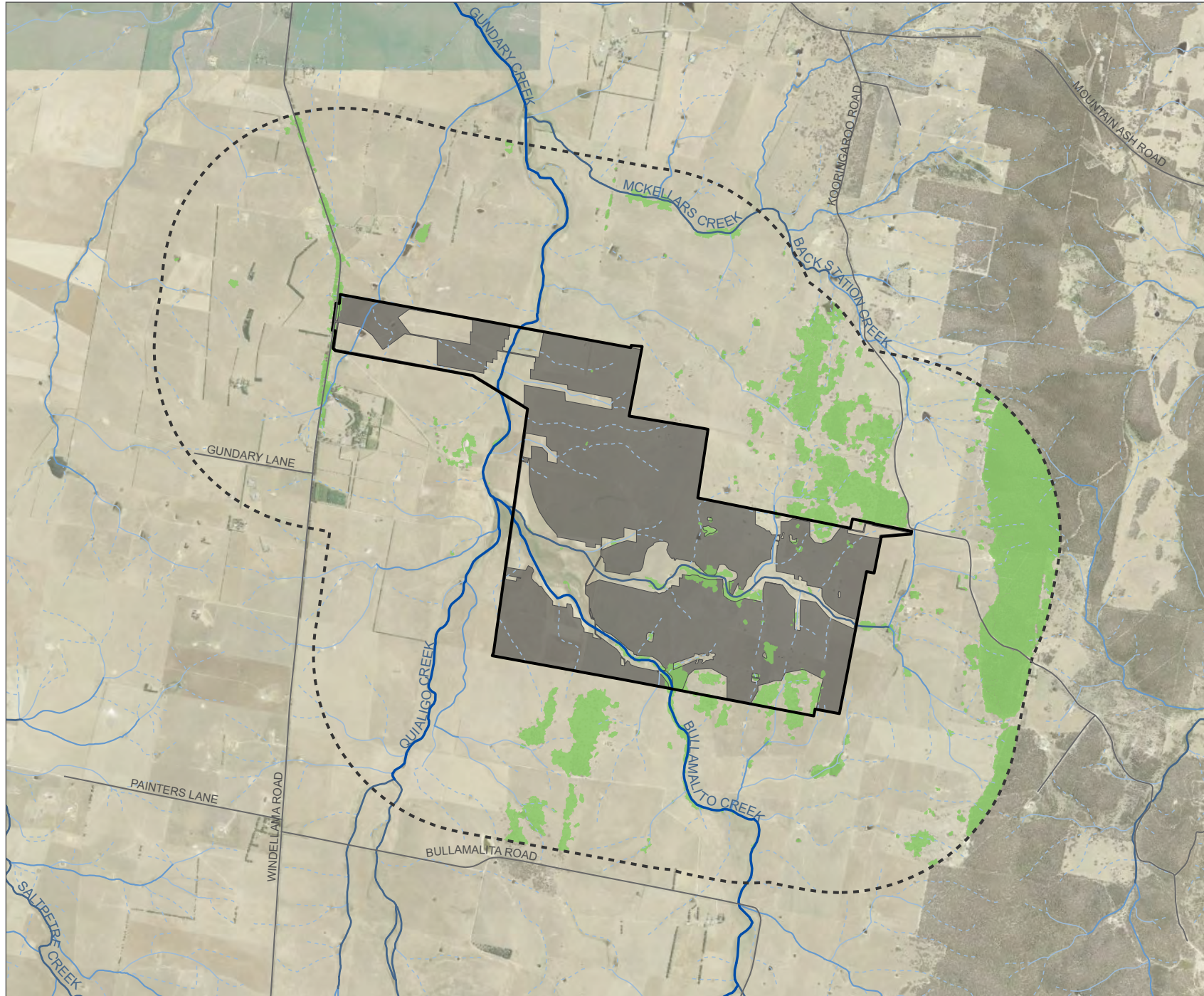
Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document or the information.

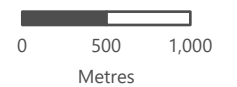
APPROVED FOR AND ON BEHALF OF Umwelt



**FIGURE 4.1**  
**Native Vegetation Extent**



- Legend**
- Road
  - ▬ Project Area
  - Subject Land
  - Native Vegetation Extent
- Strahler Stream Order**
- - 1st Order Stream
  - - 2nd Order Stream
  - - 3rd Order Stream
  - - 4th Order Stream
  - - 5th Order Stream or Higher



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt



**FIGURE 4.2**

## Plant Community Types and Vegetation Zones

**Legend**  
 — Road  
 — Watercourse  
 ■ Project Area  
 ▨ Subject Land

- Subject Land - Vegetation Zones**
- PCT888 - Paddock tree (VZ1)
  - PCT1191 - Paddock tree (VZ2)
  - PCT1289 - Low (VZ3)
  - PCT1330 - Paddock tree (VZ4)
  - PCT1330 - Native pasture (VZ5)
- Project Area - Plant Community Types and Zones**
- PCT731 - Low
  - PCT731 - Moderate
  - PCT888 - Low
  - PCT888 - Moderate
  - PCT1110 - Low
  - PCT1191 - Moderate
  - PCT1191 - Low
  - PCT1289 - Moderate
  - PCT1330 - Low
  - PCT1330 - Moderate
  - PCT1330 - Derived native grassland
  - Planted native trees
  - Riparian
  - Farm Dam / Waterbody
  - Exotic plantings
  - Cultivated



0 500 1,000  
 Metres

Scale: 1:0 at A4  
 GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt



**FIGURE 4.3**

## Threatened Ecological Communities

### Legend

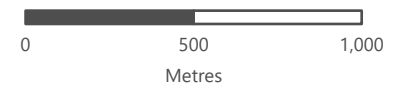
- Road
- Watercourse
- ▭ Project Area
- Subject Land

### Threatened Ecological Community - NSW

- ▨ Werriwa Tablelands Cool Temperate Grassy Woodland in the South Eastern Highlands and South East Corner Bioregions (1191)
- ▨ White Box – Yellow Box – Blakely's Red Gum Grassy Woodland and Derived Native Grassland (1330)

### Threatened Ecological Community - Commonwealth

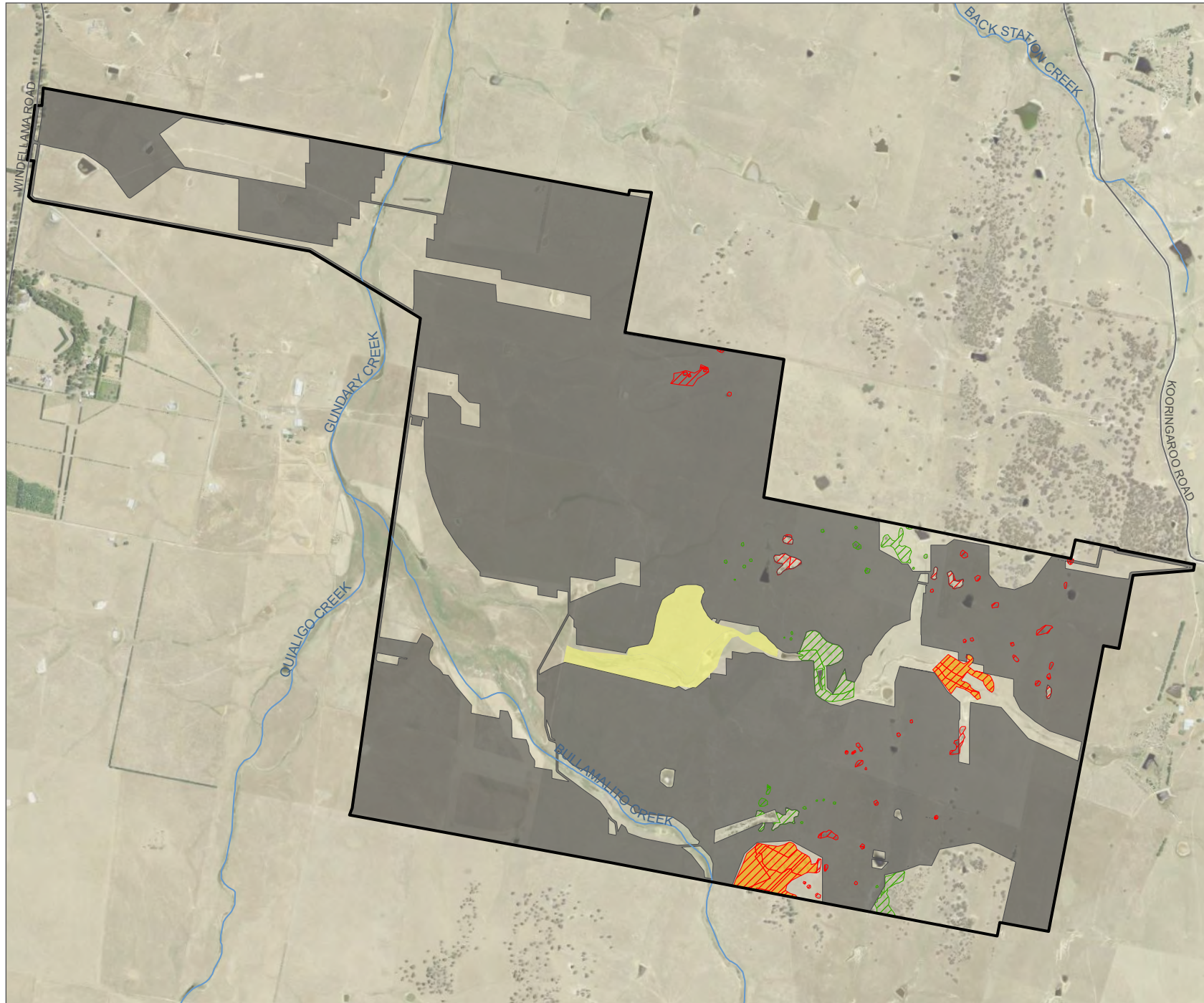
- Natural Temperate Grassland of the South Eastern Highlands (1289)
- White Box – Yellow Box – Blakely's Red Gum Grassy Woodland and Derived Native Grassland (1330)



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document or the information.

APPROVED FOR AND ON BEHALF OF Umwelt



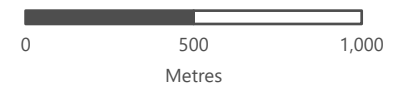
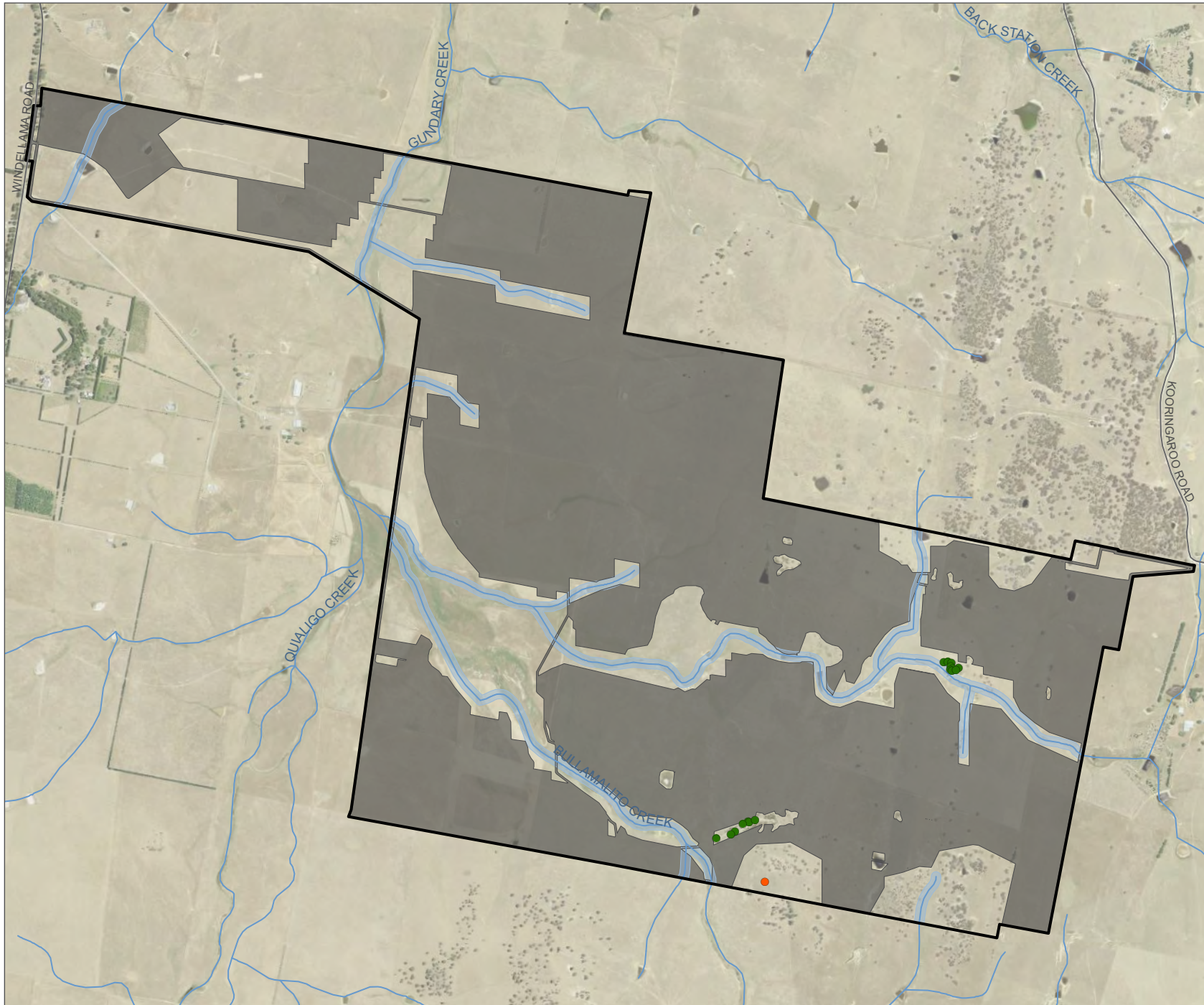


**FIGURE 5.1**

**Candidate Species-Credit  
Species Records in Project  
(Outside Subject Land)**

**Legend**

- Road
- Watercourse
- ▬ Project Area
- Subject Land
- 20m Watercourse Buffer
- Avoided Species-credit Species**
- *Eucalyptus macarthurii*
- Keys Matchstick Grasshopper



This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt

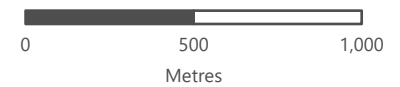
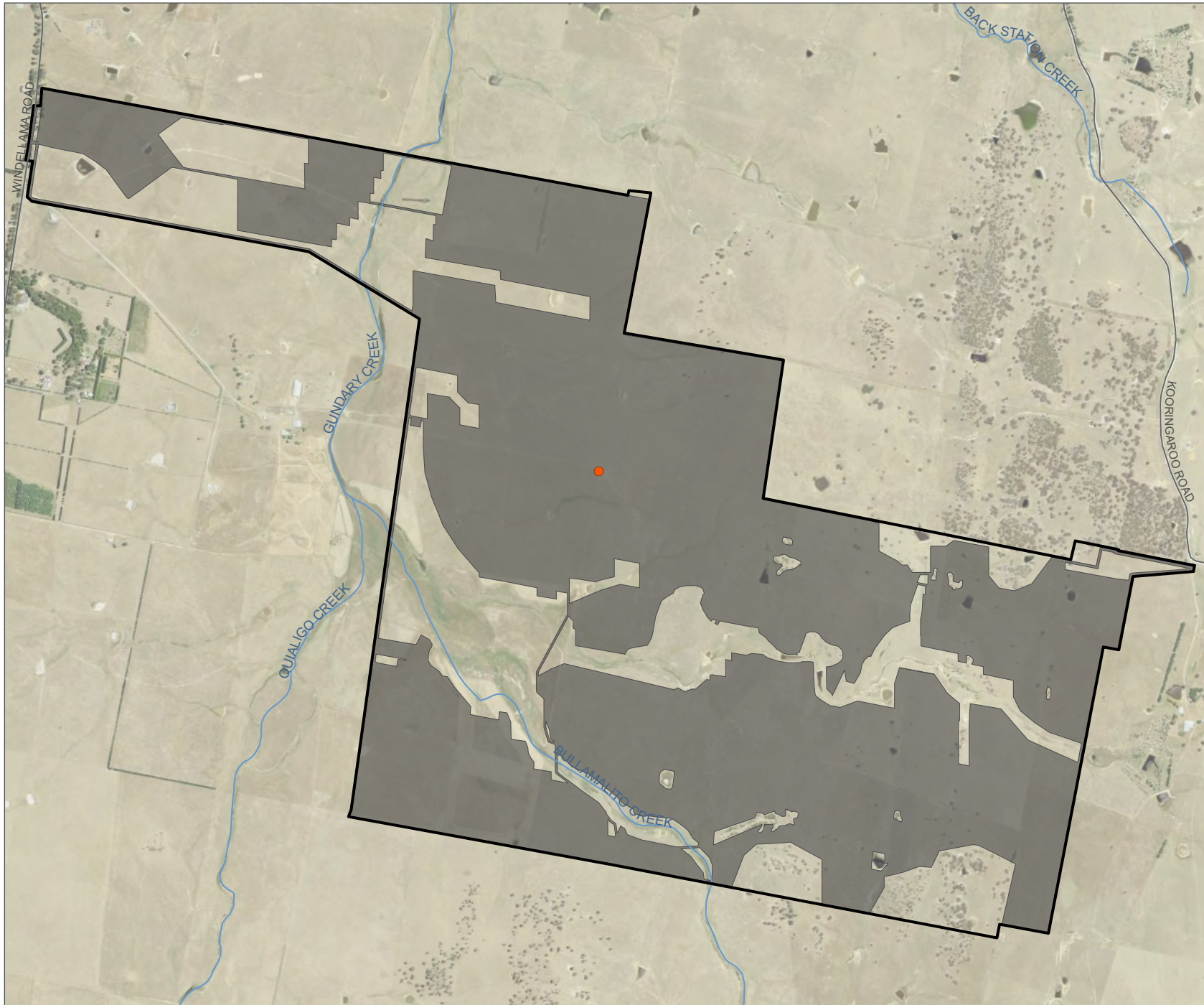


**FIGURE 5.2**

## Ecosystem Credit Species Observation Locations

### Legend

- Road
- Watercourse
- ▬ Project Area
- Subject Land
- White-fronted Chat (*Epthianura albifrons*) x3



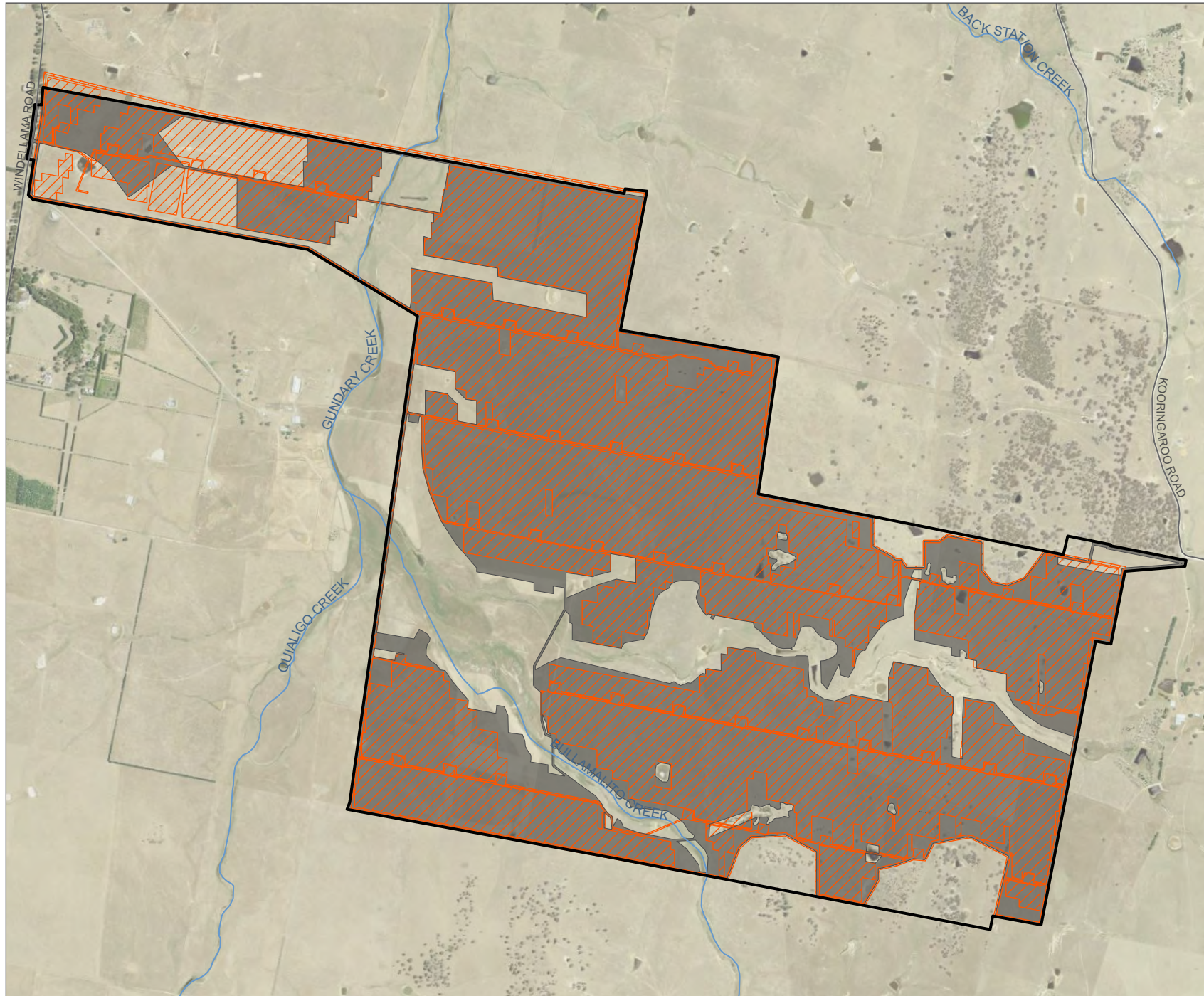
Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document or the information.

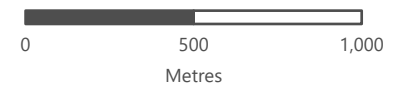
APPROVED FOR AND ON BEHALF OF Umwelt



**FIGURE 7.2**  
Alternative Footprints  
Considered



**Legend**  
 — Road  
 — Watercourse  
 ■ Project Area  
 ■ Subject Land (2024)  
 ■ Subject Land (2022)



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt

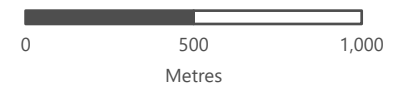
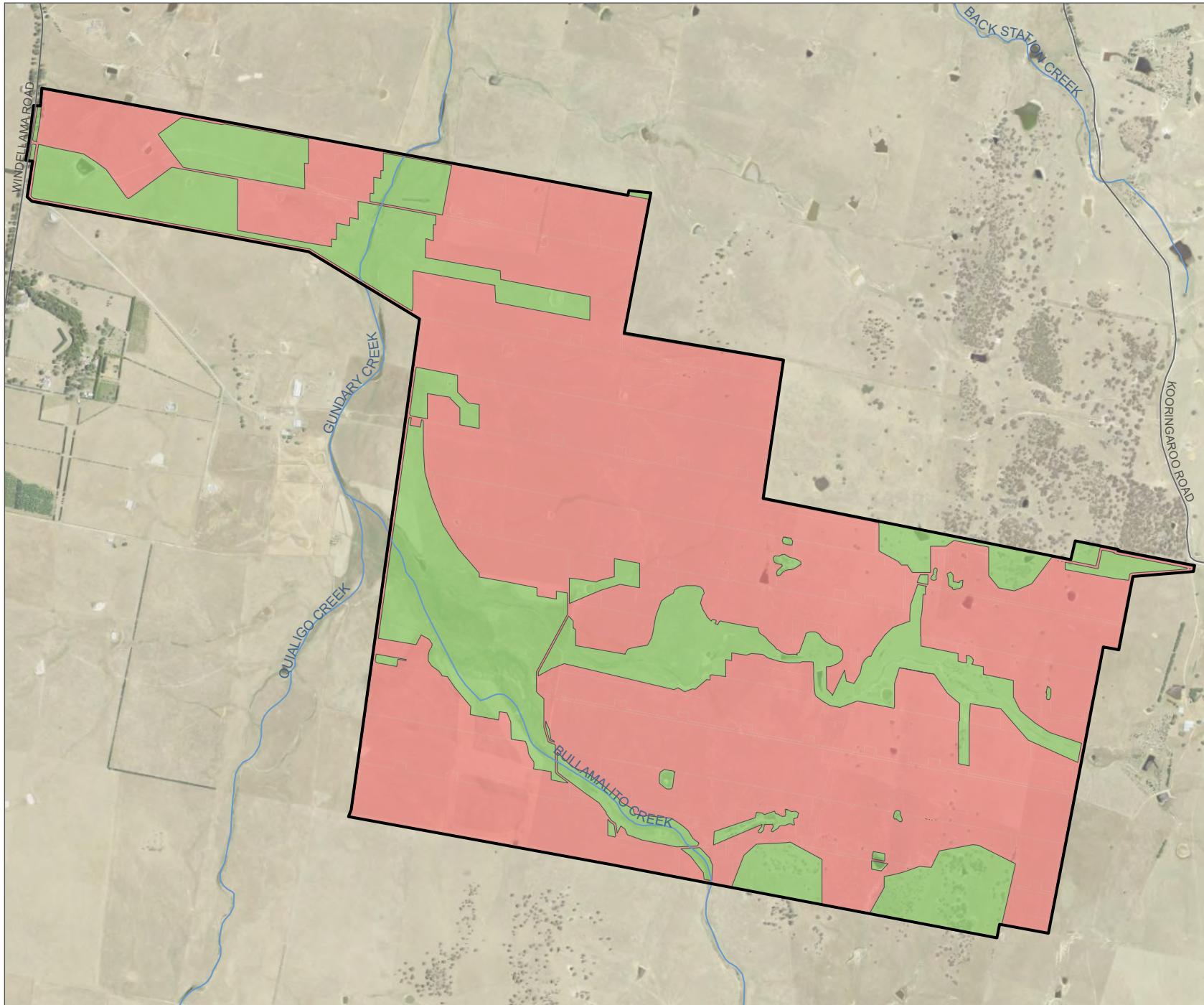


**FIGURE 8.1**

## Final Impacts Likely To Occur on Subject Land

### Legend

- Road
- Watercourse
- Subject Land
- ▬ Project Area
- Direct Impact
- Indirect Impact



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document or the information.

APPROVED FOR AND ON BEHALF OF Umwelt

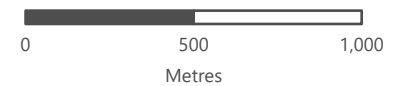
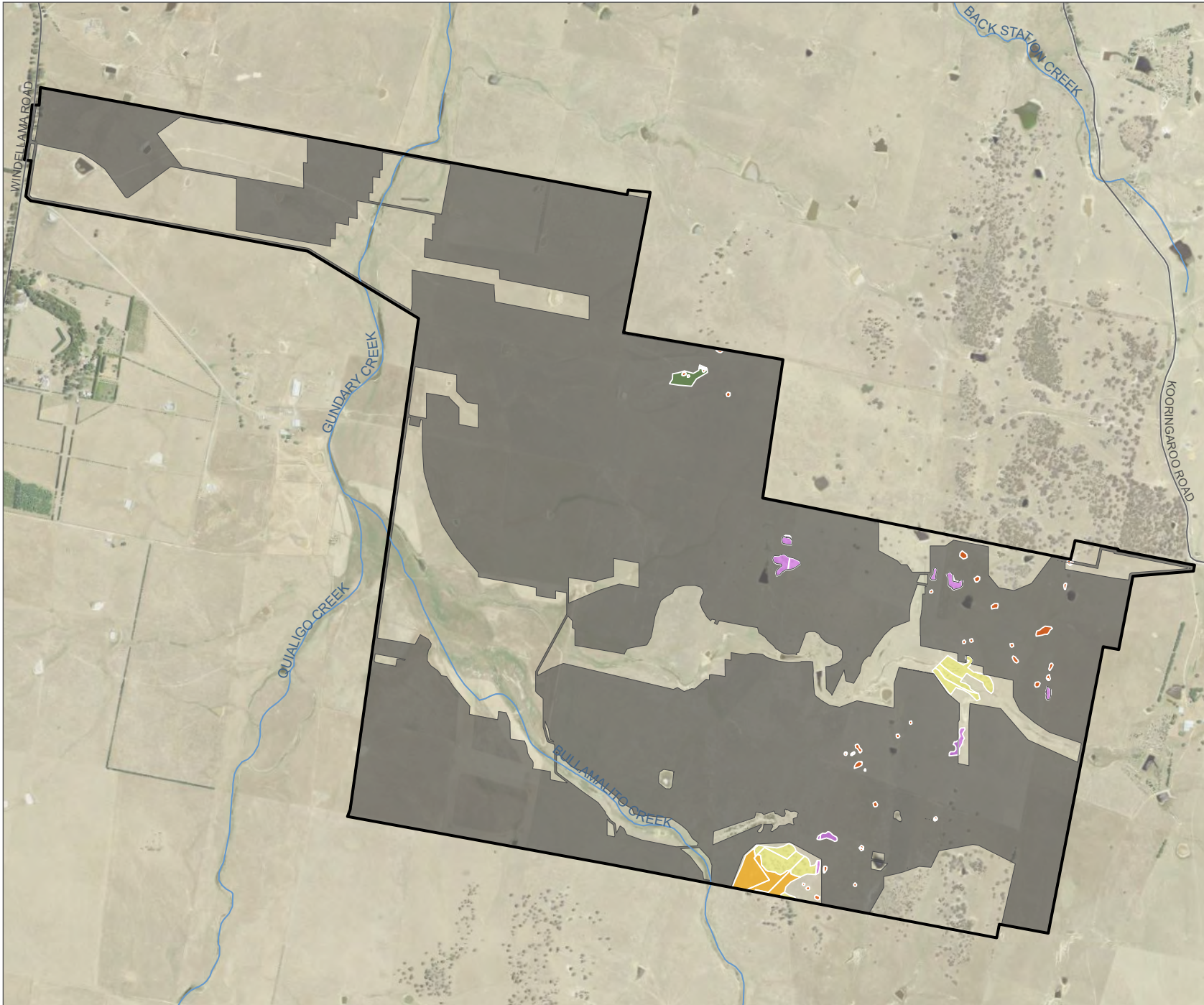


**FIGURE 9.1**

## Box Gum Woodland CEEC Impact Avoidance

**Legend**

- Road
- Watercourse
- ▭ Project Area
- ▭ Subject Land
- Box Gum Woodland CEEC**
- Low
- Moderate
- Derived Native Grassland
- Paddock Trees
- Native Pasture

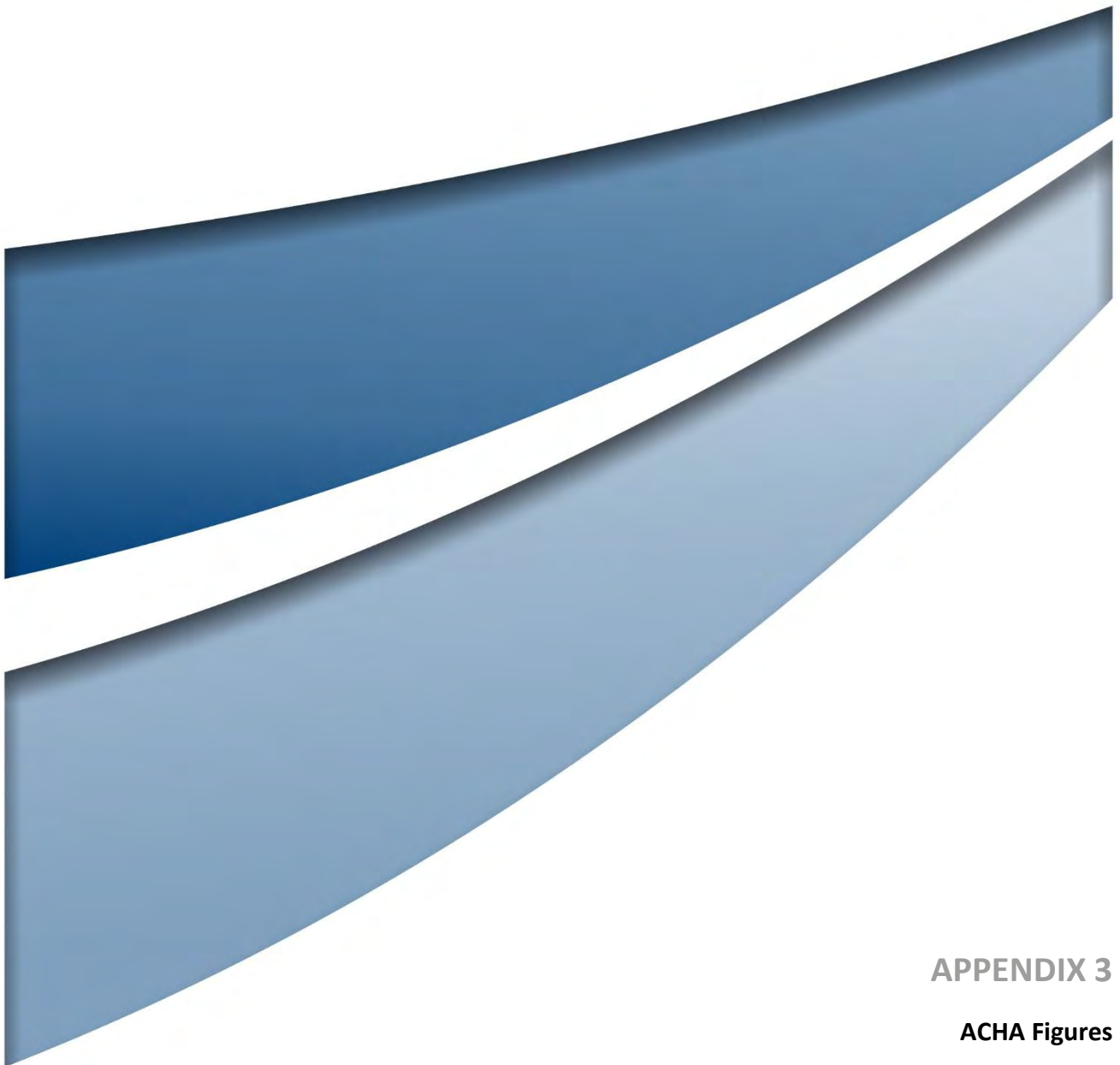


Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt





## APPENDIX 3

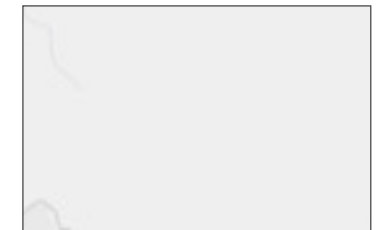
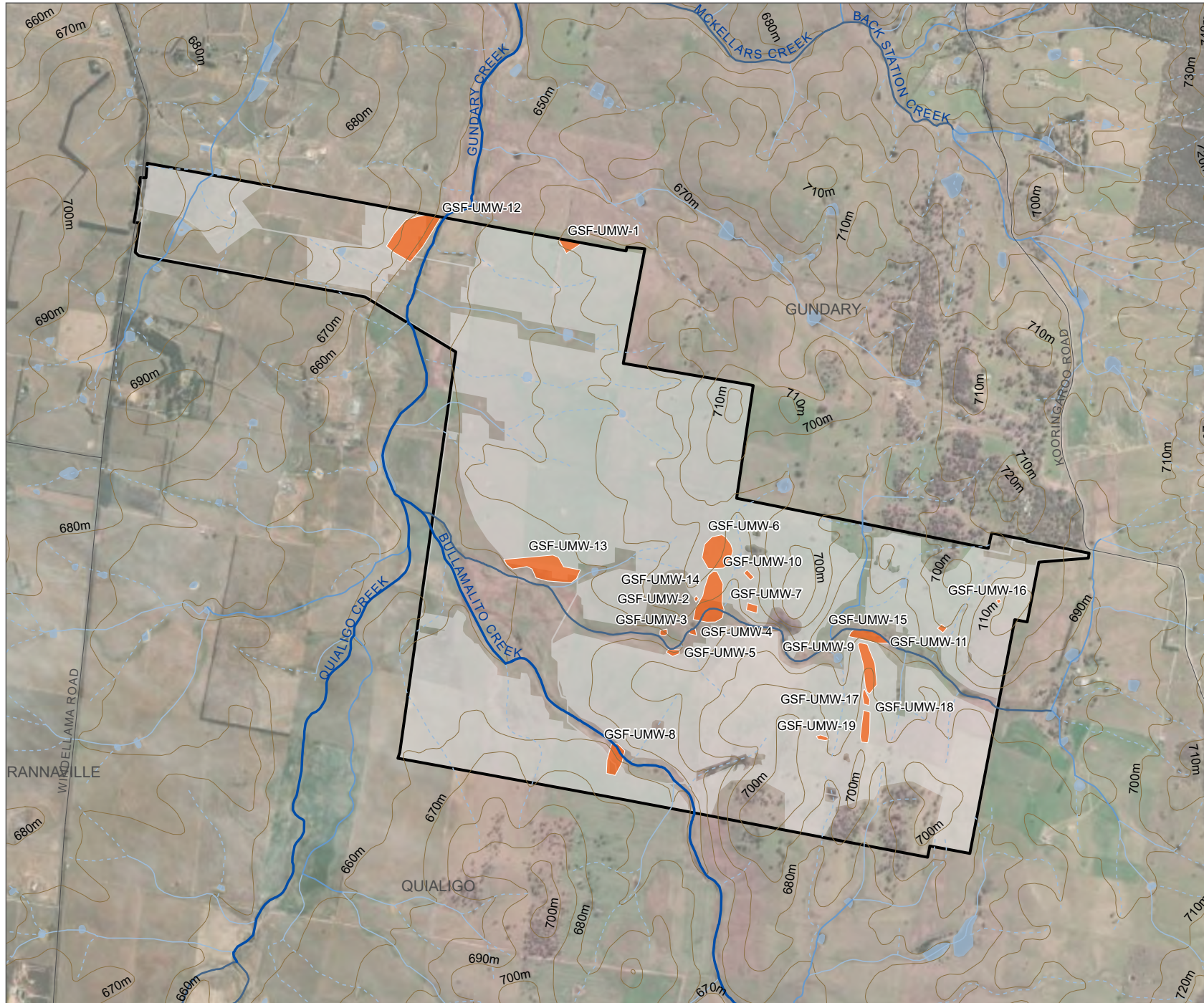
ACHA Figures

**FIGURE 7.1**

## Development Footprint and Known Archaeological Sites

### Legend

- Road
  - Contours (10m)
  - ▭ Project Area
  - Waterbody
  - All Archaeological Sites in Project Area
  - Development Footprint
- Strahler Stream Order**
- 1st Order Stream
  - 2nd Order Stream
  - 3rd Order Stream
  - 4th Order Stream
  - 5th Order Stream or Higher



Scale: 1:0 at A4  
GDA2020 MGA Zone 55

This document and the information are subject to Terms and Conditions and Umwelt (Australia) Pty Ltd ("Umwelt") Copyright in the drawings, information and data recorded ("the information") is the property of Umwelt. This document and the information are solely for the use of the authorized recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that which it was supplied by Umwelt. Umwelt makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document for the information.

APPROVED FOR AND ON BEHALF OF Umwelt





GET IN TOUCH WITH US

**1300 793 267**  
[www.umwelt.com.au](http://www.umwelt.com.au)



NSW | QLD | ACT | WA | VIC | SA