Liverpool Range Wind Farm Mod-3 Application

Amended Aboriginal Cultural Heritage Assessment

June 2026

umwelt

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Amended Aboriginal Cultural Heritage Assessment

Prepared by
Umwelt (Australia) Pty Limited

On behalf of
Tilt Renewables Australia Pty Ltd as trustee for Liverpool Range Wind Farm Project Trust

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Report No.: R09
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Document Status

Rev No.	Reviewer Name	Date	Approved for Issue Name	Date
Final	Kirsty Davies	11/06/2026	Luke Wolfe	15/06/2026

Executive Summary

Project Overview and Background

The Liverpool Range Wind Farm (LRWF) Project (the LRWF Project) is a large-scale renewable energy project authorised under State Significant Development Consent SSD 6696. Since its original approval in 2018, the LRWF Project has undergone two (2) modifications (Mod-1 and Mod-2), with a third (Mod-3) now proposed to reflect advances in technology and design optimization, including reductions in turbine numbers and changes to transmission line alignments. The Mod-3 Application proposes a refined layout (Mod-3 Layout) including up to 173 wind turbines, removal of the previously approved external transmission line, and inclusion of communication towers and public road upgrades.

The Site Boundary lies within the Central-West Orana Renewable Energy Zone (CWO REZ) and spans Warrumbungle and Upper Hunter Local Government Areas (LGAs).

Fieldwork Outcomes

Archaeological surveys were conducted in October 2024, December 2025 and June 2026 to assess the Proposed Development Corridor and areas of archaeological sensitivity. A total of eight (8) areas of PAD were recorded.

Impact Assessment

Construction of the Mod-3 Layout will involve ground disturbance from construction, operations, and maintenance, will cause partial or complete loss to 29 Aboriginal sites. In total, 22 Aboriginal sites, areas of PAD and/or landform units (*sensu* NSW Archaeology 2014) have been avoided through refinements to the Proposed Development Corridor.

Management Strategies

Avoidance

The Applicant has committed to avoiding Aboriginal sites detailed in **Table 8.2**. Micro-siting, for the purposes of this assessment, is defined as the process of locating turbines, ancillary infrastructure and temporary infrastructure during detailed design without further approval.

It is noted that should the Applicant determine that sites cannot be avoided during future stages of the LRWF Project, provisions for suitable management strategies (i.e. surface collection, tree removal and salvage) must be integrated into the ACHMP in consultation with RAPs. An assessment of changed impacts in the updated ACHMP may be required to quantify associated impacts and reissued to RAPs for review and comment.

Surface Collection Program

Surface collection is considered an appropriate and effective management option for the seven (7) open artefact sites within the Proposed Development Corridor, in the event that these sites cannot be avoided through micro-siting during design. A systematic salvage program will be undertaken within the Proposed Development Corridor prior to the commencement of any Project-related ground clearance works.

Test Excavation Program

A targeted archaeological excavation program will be carried out in any areas of PAD or landform units identified as being archaeologically sensitive (NSW Archaeology, 2014) where construction activities would have direct impact to the ground surface (i.e. where proposed ground disturbances are constrained to the overlapping Proposed Development Corridor and area of PAD/landform unit boundaries).

Abbreviations

Abbreviation	Definition
ACHAR	Aboriginal Cultural Heritage Assessment Report
CWO REZ	Central-West Orana Renewable Energy Zone
DPE	Department of Planning and Environment (former)
DPHI	Department of Planning, Housing and Infrastructure (current)
DPIE	Department of Planning, Infrastructure and Environment (former)
EP&A Act	*Environmental Planning and Assessment Act 1979* (NSW)
EPBC Act	*Environment Protection and Biodiversity Conservation Act 1999* (Cwth)
GW	gigawatt
ha	hectare
IDF	Indicative Development Footprint
ISP	Integrated System Plan
kV	kilovolt
LEP	Local Environmental Plan
LGA	Local Government Area
MW	megawatt
NP	National Park
NSW	New South Wales
O&M	Operations and Maintenance
OSOM	Over Size Over Mass
RAP	Registered Aboriginal Party
RSA	Rotor Swept Area
SCA	State Conservation Area
SEPP	State Environmental Planning Policy
SSD	State Significant Development
TWA	Temporary Workforce Accommodation
TPZ	Tree protection zone
WTG	Wind Turbine Generator

Glossary

Term	Description
Accommodation Camp	Temporary onsite workforce accommodation camp (previously referred to as a Temporary Workers Facility (TWA).
Ancillary Infrastructure	All wind farm infrastructure with the exception of wind turbines, including but not limited to collector substations, switching stations, permanent offices and site compounds, underground and overhead electricity transmission lines, communications towers, wind monitoring masts and internal access roads.
Applicant	Tilt Renewables Australia Pty Ltd as trustee for Liverpool Range Wind Farm Project Trust (Tilt Renewables).
Approved Development	The currently approved Liverpool Range Wind Farm Project as modified under Development Consent SSD 6696 on 30 October 2025 (SSD-6696-Mod-2) providing for the construction, operation and decommissioning of up to 185 wind turbines and ancillary infrastructure.
Approved Development Corridor	The area which contains the Approved Development Footprint for the wind farm, transmission lines, accommodation camp and ancillary infrastructure with additional buffer to the Approved Indicative Development Footprint to allow for final detailed design and any micro-siting. The Approved Development Corridor comprised three separate areas that each encompass the relevant areas required to construct the Approved Development, referred to as the: • Approved Development Corridor – Wind Farm • Approved Development Corridor – External Transmission Line • Approved Development Corridor – TWA Facility.
Approved Indicative Development Footprint	The extent of approved ground disturbance and vegetation removal required for construction of the Approved Development, including turbine hardstands, internal access tracks, collector substations and ancillary equipment, the internal and external transmission line, wind monitoring masts and other temporary and permanent ancillary infrastructure. The Approved Indicative Development Footprint comprises four separate areas that each encompass the relevant areas required to construct the Approved Development, referred to as the: • Approved Indicative Development Footprint – Wind Farm • Approved Indicative Development Footprint – External Transmission Line • Approved Indicative Development Footprint – Public Road Upgrades • Approved Indicative Development Footprint – TWA Facility.
Approved External Transmission Line	The portion of the transmission line extending from the southern-most collector substation near Rotherwood Road, Cassilis, south to a connection substation at Ulan, consisting of overhead powerlines of up to 330 kV, supported by poles or towers and located within a 60 m wide easement.

Term	Description
Conditions of Consent	Consolidated Conditions of Development Consent SSD 6696 (as modified) which authorise and regulate the Approved Development.
Development Consent	Development Consent SSD 6696 (as modified) granted under Section 4.38 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) on 30 October 2025 (SSD-6696-Mod-2).
Indicative Project Layout	The refined wind farm layout proposed as part of the Mod-3 Application.
Internal Transmission Line	Overhead transmission line located within the wind farm north of the proposed connection to the CWO REZ transmission line at the connection sub-station in the wind farm, within F cluster off Rotherwood Road.
Micro-siting	Refinement of turbine and ancillary infrastructure placement to the extent allowed by the Conditions of Consent, considering design optimisation, environmental and physical constraints.
Mod-1 Development	Tilt Renewables submitted an application to modify the Development Consent (SSD-6696) under Section 4.55(2) of the NSW Environmental Planning and Assessment Act 1979 (EP&A Act) in September 2022. This application is referred to as the Mod-1 Development. The key changes associated with Mod-1 were a reduction in the number of wind turbines to185, an increase in the maximum blade tip height to 215 m above ground level, amendments to the associated infrastructure and inclusion of an onsite temporary workforce accommodation facility (TWA Facility). The Mod-1 Development was approved and modifications to the Development Consent granted on 23 October 2024 (SSD-6696-Mod-1).
Mod-2 Development	Tilt Renewables submitted an application to modify the Development Consent (SSD-6696) under Section 4.55(1A) of the NSW Environmental Planning and Assessment Act 1979 (EP&A Act) in September 2025. This application is referred to as the Mod-2 Development. The Mod-2 Development sought the re-inclusion of three areas of land, totalling 15.6 hectares (ha), into the Development Corridor to facilitate micro-siting of key ancillary infrastructure. The Mod-2 Development was approved on 30 October 2025 (SSD-6696-Mod-2).
Mod-3 Application	The Mod-3 Application reflects the current proposed design refinements to the Approved Development, including revised Internal Transmission Line alignment, micro-siting and relocation of wind turbines, inclusion of communications towers and updated access track alignments. It proposes to remove the Approved External Transmission Line between the wind farm's connection substation and the approved connection point at Ulan, as access rights have been granted by the NSW Government to connect LRWF into the Central West Orana Renewable Energy Zone (CWO REZ) Transmission Line. This connection will now occur within the connection substation on-site off Rotherwood Road.

Term	Description
Original Development	The original Liverpool Range Wind Farm Project as approved in March 2018 under Development Consent SSD 6696 to allow for the construction, operation and decommissioning of up to 267 wind turbines with a maximum tip height of 165 m and associated infrastructure including a transmission line with an indicative capacity of 330 kV from within the wind farm to the approved connection point at Ulan.
Proposed Development Corridor	The area which contains the Proposed Indicative Development Footprint for the wind farm, public road upgrades, Internal Transmission Line, accommodation camp and ancillary infrastructure with additional buffer to the Proposed Indicative Development Footprint to provide for final detailed design and micro-siting. The Proposed Development Corridor comprises two separate areas that each encompass the relevant areas required to construct the Mod-3 Application, referred to as the: • Proposed Development Corridor – Wind Farm • Proposed Development Corridor – Public Road Upgrades.
Proposed Development Corridor – Public Road Upgrades	The portion of the Proposed Development Corridor that includes the upgrades/repairs to public road intersections and associated structures that may be required to facilitate the construction of the Mod-3 Application. This corridor has been developed, defined and assessed separately as part of the Mod-3 Application to allow flexibility for further detailed design in consultation with Upper Hunter and Warrumbungle Shire Councils.
Proposed Development Corridor - Wind Farm	The portion of the Proposed Development Corridor that includes all wind farm related infrastructure including wind turbines, hardstands, site access points, access tracks, underground reticulation cabling, Internal Transmission Line, collector sub-stations, connection substation, operation and maintenance facilities, temporary construction compounds (including accommodation camp, laydown areas and concrete batch plants), communications towers, permanent and temporary wind monitoring masts.
Proposed Indicative Development Footprint (IDF)	The estimated extent of proposed ground disturbance and vegetation removal required for construction of the indicative layout proposed as part of the Mod-3 Application, including wind turbines, hardstands, site access points, access tracks, underground reticulation cabling, Internal Transmission Line, collector sub-stations, connection substation, operation and maintenance facilities, temporary construction compounds (including accommodation camp, laydown areas and concrete batch plants), communications towers, permanent and temporary wind monitoring masts and the public road upgrades. The Proposed Indicative Development Footprint comprises three separate areas that each encompass the relevant areas required to construct the Mod-3 Application, referred to as the: • Proposed Indicative Development Footprint – Wind Farm • Proposed Indicative Development Footprint – Balance of Easement (associated with Internal Transmission Line) • Proposed Indicative Development Footprint – Public Road Upgrades.

Term	Description
Proposed Indicative Development Footprint – Balance of Easement	Portions of the Proposed Indicative Development Footprint relating to the Internal Transmission Line that does not require ground disturbance, however vegetation above four metres at maturity may require removal, pruning or management during operations.
Proposed Indicative Development Footprint – Public Road Upgrades.	The estimated extent of all temporary and permanent ground disturbance and vegetation removal associated with the construction of the public road upgrades.
Proposed Indicative Development Footprint – Wind Farm	The portion of the Proposed Development Corridor that includes all wind farm related infrastructure including wind turbines, hardstands, site access points, access tracks, underground reticulation cabling, Internal Transmission Line (which requires ground disturbance), collector sub-stations, connection substation, operation and maintenance facilities, temporary construction compounds (including Accommodation Camp, laydown areas and concrete batch plants), communications towers, permanent and temporary wind monitoring masts.
Site Boundary	The Site Boundary contains the entirety of the approved wind farm infrastructure.
Wind Turbine	Turbines used for the generation of electricity by wind, including the tower, nacelle, hub, blades and associated components

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Appendix A AHIMS Extensive Search Results

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1.0 Introduction

Liverpool Range Wind Farm Project (the LRWF Project) is an approved large scale renewable energy project which is being developed by Tilt Renewables Australia Pty Ltd (Tilt Renewables) as trustee for Liverpool Range Wind Farm Project (the Applicant). The LRWF Project is authorised by State Significant Development (SSD) Consent SSD 6696 (Development Consent) that was granted for the LRWF Project 27 March 2018 (Original Development) and subsequently modified on 23 October 2024 (Mod-1 Development) and 30 October 2025 (Mod-2 Development). The LRWF Project, as authorised by the modified Development Consent, is hereafter referred to as the 'Approved Development'.

The Approved Development is located approximately 3 km east of the township of Coolah, New South Wales (NSW) (refer to **Figure 1.1**). The Approved Development is located within, and forms a key component of, the Central-West Orana Renewable Energy Zone (CWO REZ) and extends across the Warrumbungle, and Upper Hunter Government Areas (LGAs).

Following a value engineering and constructability assessment undertaken as part of detailed construction planning the Applicant is now seeking a modification ('Mod-3 Application') to the Approved Development, which is the subject of this Aboriginal Cultural Heritage Assessment (ACHA).

The ACHA was publicly exhibited from 14 April 2026 to 28 April 2026, as part of the Mod-3 Application. This Amended ACHA has been prepared to address the submission received from Heritage NSW (dated 13 April 2026). The Heritage NSW submission requested further information in relation to the assessment undertaken and further consideration of avoidance and/or justification for proposed impacts particularly in relation to modified trees. To address this submission further site survey was undertaken in June 2026 (in consultation with the Register Aboriginal Parties (RAPs)) and additional assessment of impacts and avoidance.

1.1 Background and Approved Development

The Approved Development (as modified) provides for the construction, operation and decommissioning of up to 185 wind turbines and ancillary infrastructure (refer to **Figure 1.2**).

Since the Development Consent was granted in 2018, there have been significant advances in wind turbine technology. After acquiring the Original Development in 2019 from Epuron Pty Ltd, the Applicant has undertaken detailed layout review and design optimisation processes to progress the Approved Development towards construction.

The Mod-1 Development was pursued in order to take advantage of technology changes and to reflect the findings of the layout review and design optimisation process, and in doing so provide greater certainty with regards to the constructability of the LRWF Project and associated potential environmental impacts. The Mod-2 Development included a minor increase to the Development Corridor for micro-siting of access tracks and permanent meteorological monitoring masts.

The history of the approval process for the Approved Development is summarised in **Table 1.1** below.

Table 1.1 Project Approval History

Date of Approval	Project Name	Details
March 2018	Liverpool Range Wind Farm Project (Original Development)	Development Consent SSD 6696 granted to allow for the construction, operation and decommissioning of up to 267 wind turbines with a maximum tip height of 165 m and associated infrastructure including a transmission line with an indicative capacity of 330 kV from within the wind farm to the approved connection point at Ulan.
October 2024	Mod-1 Development	A modification application was submitted under Section 4.55(2) of the EP&A Act (including two amendments) resulting in approval for 185 wind turbines with a maximum blade tip height of 215 m and amendments to the associated infrastructure (including substations, internal and external transmission lines, site access and ancillary infrastructure including an onsite accommodation camp (previously referred to as the Temporary Workers Accommodation (TWA) Facility).
October 2025	Mod-2 Development	Addition of approximately 16 ha to the Development Corridor to accommodate micro-siting of access tracks and permanent meteorological monitoring masts.

1.2 Mod-3 Application Overview

The Mod-3 Application includes an updated Internal Transmission Line alignment, micro-siting of wind turbines, up to seven communications towers, an updated public road upgrade and access track alignments (refer to **Figure 1.3**). It proposes to remove the approved External Transmission Line between the wind farm's connection substation and the approved connection point at Ulan, as access rights have been granted by the NSW Government to connect the LRWF Project into the CWO REZ Transmission Line. This connection will now occur within the connection substation on-site within Cluster F off Rotherwood Road.

The changes proposed by the Mod-3 Application are detailed in **Section 2.0** and are required to rationalise and optimise the indicative project layout design following value engineering investigations, further landowner consultation, and commitment to connect the Approved Development into the CWO REZ Transmission Line (part of the CWO REZ Transmission Project) being developed by EnergyCo.

The Mod-3 Application includes both the removal and inclusion of discrete areas within the Development Corridor for constructability purposes and to provide flexibility for micro-siting the revised conceptual layout (Mod-3 Layout). An overview of the proposed refinements to the Approved Development Corridor associated with the Mod-3 Application is shown on **Figure 1.2**.

A key consideration of the design refinements and proposed modification to the Approved Development is to reduce the extent of overall ground disturbance and native vegetation removal required for the LRWF Project.

1.2.1 Assessment Areas

Impacts associated with the Approved Development are based on an Approved Development Corridor and Approved Indicative Development Footprint (i.e. the 'Approved IDF'). The Approved IDF is the total estimated extent of all approved temporary and permanent ground disturbance and vegetation removal associated with the construction of the Approved Development. The Approved Development Corridor is a micro-siting buffer within which all project infrastructure must be located, as determined by the respective Approved IDF.

The Approved Development is contained within a Site Boundary (refer to **Figure 1.2**). The Site Boundary contains the entirety of the approved wind farm infrastructure. As part of the Mod-3 Application, no change is proposed to the Site Boundary. The External Transmission Line was contained within the external transmission line corridor and not the Site Boundary, therefore its removal does not require amendment to the Site Boundary. Note the Site Boundary falls within the Warrumbungle and Upper Hunter LGAs. The external transmission line corridor extended into the Mid-Western Regional LGAs which will be removed as part of the Mod-3 Application.

Based on the proposed refinements associated with the Mod-3 layout a Proposed Indicative Development Footprint (Proposed IDF) and Proposed Development Corridor have been established. The Proposed IDF is the total estimated extent of all temporary and permanent ground disturbance and vegetation removal associated with the construction of the Mod-3 Application. The Proposed Development Corridor is a micro-siting buffer within which all project infrastructure must be located, as determined by the respective Proposed IDF. For the purposes of the assessment the Proposed Development Corridor includes both the Proposed Development Corridor – Wind Farm and the Proposed Development Corridor - Public Road Upgrade (PRU) to differentiate between the associated work areas.

The Mod-3 Application establishes the dedicated Proposed Development Corridor – PRU along the public roads that are subject to potential upgrades/repairs as authorised under the Development Consent. The Proposed Development Corridor – PRU captures the Proposed IDF of the expected road upgrades in accordance with Warrumbungle Shire and Upper Hunter Shire Council design requirements.

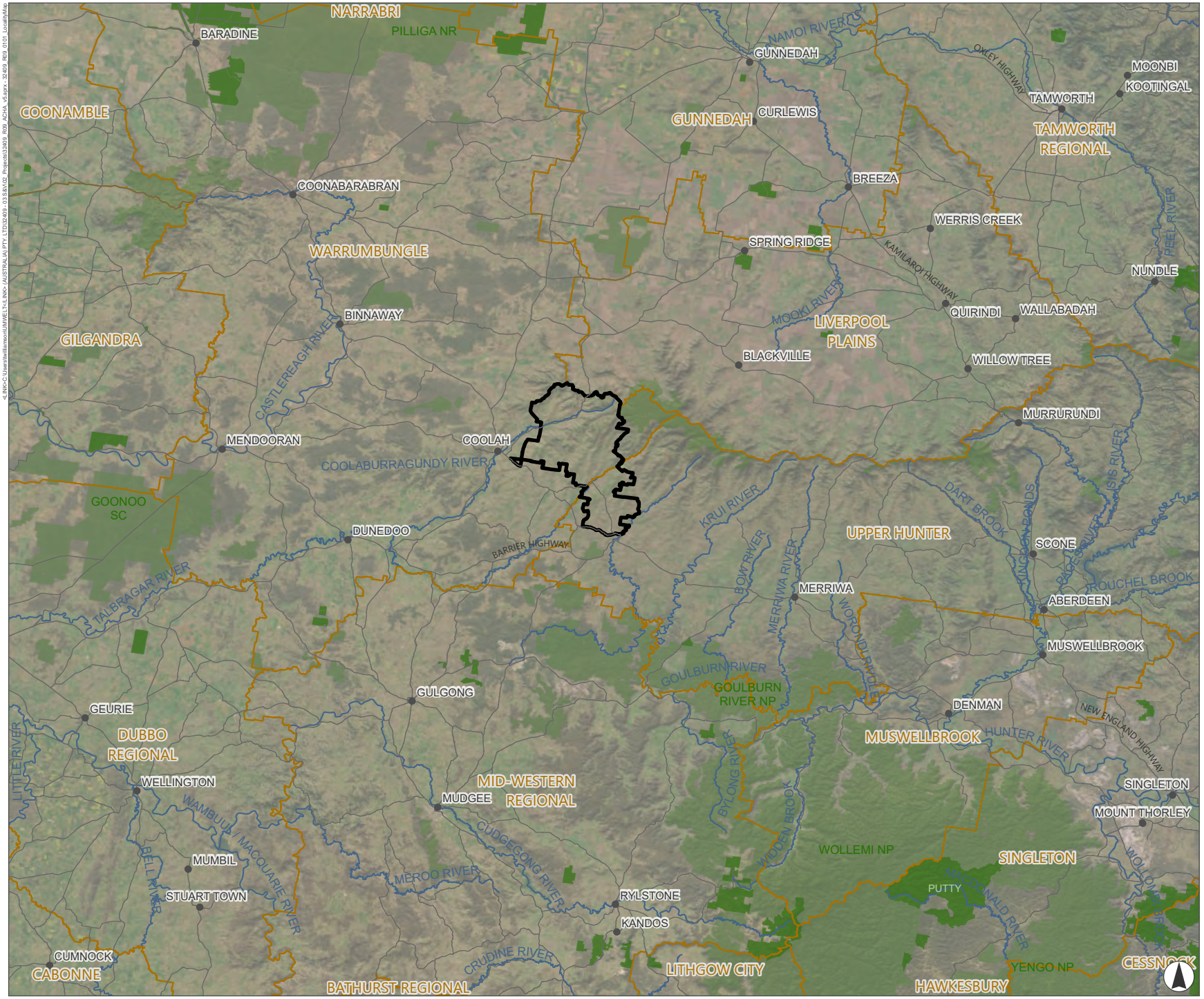
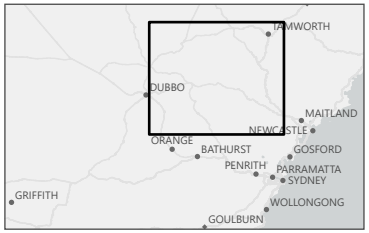


FIGURE 1.1

Project Locality

Legend

- Roads
- Named Watercourse
- Approved Site Boundary
- Local Government Area
- National Park
- State Forest



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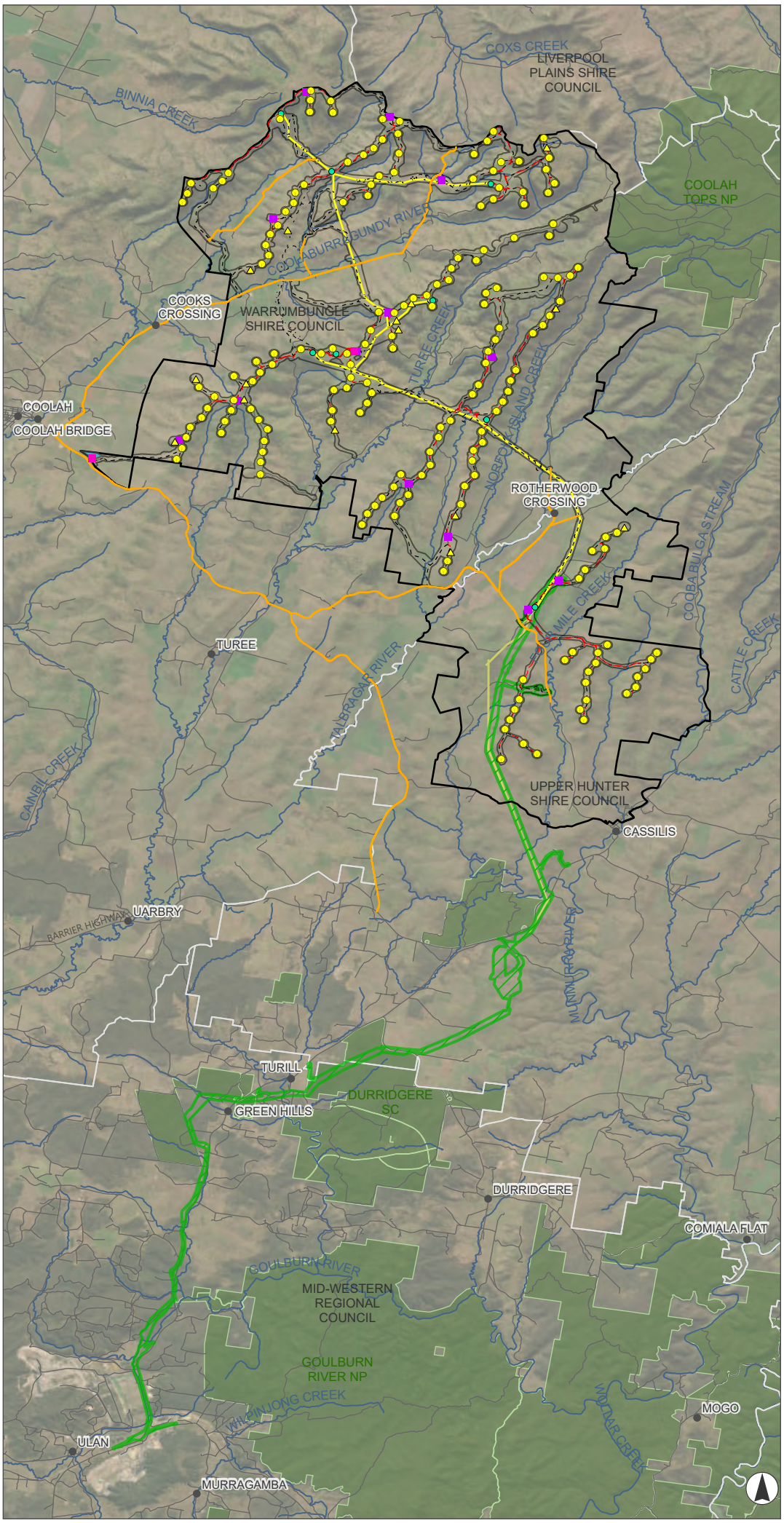
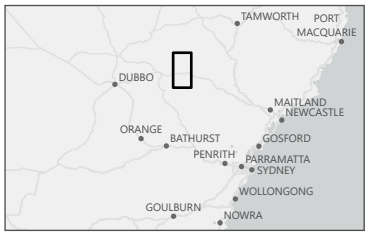


FIGURE 1.2
Approved Development

Legend

- Approved Turbine Layout
- Met Mast Locations
- Substation Locations
- Construction compound / Laydown Area / Batch Plant
- O&M Facility
- Internal 330kV Transmission Line
- Underground Cables (250723)
- Public Road Upgrades
- Access Tracks
- Roads
- Approved Site Boundary
- Approved Development Corridor
- Approved External Transmission Line Corridor
- Workforce Accommodation Camp Site
- CWO REZ Transmission Corridor



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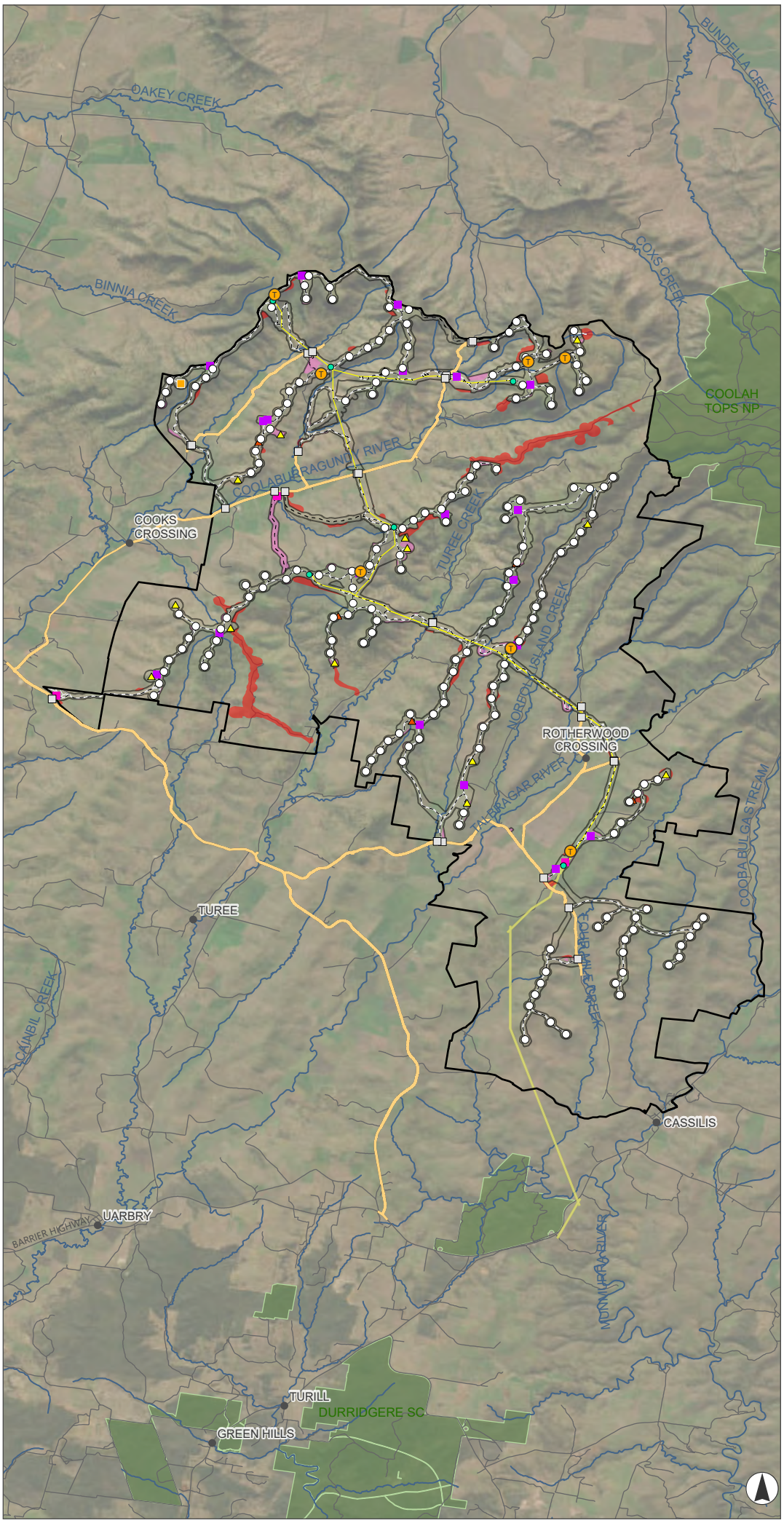

FIGURE 1.3

Proposed Mod-3 Application Overview

Legend

- Site Access
- Preliminary Turbine Layout
- Met Mast Locations Permanent
- Met Mast Locations Operating
- Substation Locations
- Microwave Tower
- Construction compound / Laydown Area / Batch Plant
- O&M Facility
- Laydown Area
- Approved Internal Transmission Line
- Access Tracks
- Roads
- Named Watercourse
- Proposed Site Boundary
- Approved Development Corridor
- PRU Development Corridor
- Mod-3 Layout Additional Development Corridor
- Mod-3 Layout Development Corridor Removed
- CWO REZ Transmission Corridor
- National Park

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Kilometres

Scale 1:235,000 at A4
GDA2020

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1.3 Objectives and Limitations

The overarching objective of this ACHA was to compare the Mod-3 Application against the Approved Development and assess any resulting changes to impacts and management in relation to Aboriginal cultural heritage. This ACHA also ensures that Aboriginal archaeological values within the Proposed Development Corridor for the Mod-3 Application are appropriately documented and assessed with reference to the approach specified in the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (OEH [former] 2011), the Consultation Requirements (DECCW [former] 2010a) and with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW [former] 2010b) (the Code of Practice).

Aboriginal people are the primary determinants of the cultural significance of their heritage. This ACHA ensures that the information provided by registered Aboriginal parties (RAPs) is documented and presented in a manner that informs decision making on the management of Aboriginal cultural heritage within the Site Boundary, whilst ensuring that the required archaeological information is also appropriately documented.

Umwelt identified additional areas not assessed as part of the Mod-1 ACHA (Umwelt 2024a) and subsequent ACHA Addendum reports (Umwelt 2023a; 2023b and 2024b), to determine where archaeological survey was required (in alignment with the established predictive model), and review and update the impact assessment based on the results of additional archaeological survey. Umwelt also aimed to update RAPs about the Mod-3 Application, involve RAP representatives in survey, and provide RAPs with an ACHA to document the assessment.

This ACHA has not re-assessed any areas that were previously considered as part of the Approved Development under the Mod-1 ACHA (Umwelt 2024a) or subsequent ACHA Addendum reports (Umwelt 2023a, Umwelt 2023b, and Umwelt 2024b).

1.4 Authorship

This report was prepared by Andrew Crisp (Umwelt, Senior Archaeologist) and Brent Koppel (Umwelt, Archaeologist), and reviewed by Luke Wolfe (Umwelt, Principal Archaeologist).

1.5 Revisions to this ACHA in Response to Submissions

As discussed in **Section 1.0**, this ACHA has been amended to provide targeted responses to Heritage NSW's submission dated 13 April 2026. **Table 1.2** below summarises the advice received and the responses provided, including references to specific sections of the report that have been amended accordingly.

Table 1.2 Response to Heritage NSW Advice on the Mod-3 ACHA

	Heritage NSW Comment	Umwelt Response
Proposed impacts to culturally modified trees		
1a	All culturally modified trees proposed for impact be subject to further inspection and assessment to confirm whether scarring is cultural or natural in origin. As per Requirement 23 of Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (DECCW 2010) the recording of the site must be consistent with Aboriginal scarred trees in New South Wales, a field manual (DEC and Andrew Long 2005). Where uncertainty remains, independent arborist advice should be sought.	In June 2026, Umwelt undertook a targeted field survey to reinspect the five (5) trees exhibiting wounding that had previously been recorded as cultural modification. A specialist arboriculturist (Urban Tree Management Australia Pty Ltd) was engaged to inspect the trees. Details are provided in **Section 6.2.3**.
1b	Where trees are confirmed to be Aboriginal objects, demonstrate through a documented options analysis that all reasonable and feasible avoidance measures have been investigated and exhausted, prior to proposing any harm-based management approach.	'Quindalup' (AHIMS ID # 28-6-0020), the only tree confirmed to be culturally modified, will be avoided. Management measures are now detailed in **Section 9.3.1**.
Clarification of survey findings for previously recorded scarred trees		
2a	Provide clear justification and supporting evidence for the conclusions reached regarding the causes of damage (including RAP input and archaeological reasoning).	Conclusions regarding the assessment of the trees by a specialist arboriculturist are provided in **Section 6.2.3**.
2b	Clarify whether the trees are considered Aboriginal objects, with reference to the above evidence.	As per above response.
2c	Review and amend the significance assessment in **Table 7.2** and other relevant sections of the report (including the impact assessment) to ensure consistency with the conclusions.	The significance assessment in **Table 7.2** has been updated to reflect the conclusions from the specialist arboriculturist.
Inconsistency in culturally modified tree mapping		
3a	**Figure 4.1** identifies a culturally modified tree (AHIMS 28-6-0083) which, based on the scale of mapping provided, appears to be located within the approved Development Corridor; however, this site has not been included in the impact assessment. Please clarify whether this site is within the proposed impact area, confirm its proximity to	Reference to mapping and the AHIMS site card for culturally modified tree 'LRWF ST1' (AHIMS ID #28-6-0083) confirms the site is located outside approved Development Corridor. **Figure 4.1** has been updated to include a zoomed inset of this area.

	Heritage NSW Comment	Umwelt Response
	proposed works, and identify whether protective or avoidance measures are required.	
Completeness and consistency of significance assessment		
4a	Update **Section 7.5** to include all Aboriginal sites within the proposed modified Development Corridor	All Aboriginal sites located within the proposed modified Development Corridor have now been added to **Section 7.5**.
4b	Provide provisional significance assessments for PAD or clearly acknowledge where significance cannot yet be determined.	Provisional significance assessments for areas of PAD have been added.
Inconsistency in scientific significance (archaeological) assessments of culturally modified trees		
5a	Review and reconcile the archaeological significance ratings for culturally modified trees to ensure consistency across **Sections 7.5** and **Section 8.3** of the ACHAR.	Following the completion of the arboriculturist assessment, a single tree was confirmed to be cultural - 'Quindalup' (AHIMS ID # 28-6-0020), noting that one tree was not relocated and assumed destroyed. In light of the above, the significance rating for 'Quindalup' (AHIMS ID # 28-6-0020) has been amended.
5b	Provide a clear justification for any changes in the significance assessment ratings proposed based on the current assessment.	The significance assessment for 'Quindalup' (AHIMS ID # 28-6-0020) has been updated to reflect the conclusions of the specialist arboriculturist assessment.
Management measures – test excavations		
6a	Clearly define the criteria and decision-making triggers for escalation from test excavation to salvage excavation.	**Section 9.3.2** 'Management measures – test excavations' has been expanded to include details specified by Heritage NSW
6b	Clarify the methodology for ceasing or continuing testing spatially within an area, including responses to sterile testing results or the continued recovery of artefacts. This should specify whether testing is intended to define site extents only within the impact footprint or more broadly.	**Section 9.3.2** 'Management measures – test excavations' has been expanded to include details to address the Heritage NSW comments
6c	Include a requirement for submission of an Aboriginal Site Impact Recording Form (ASIRF) and/or AHIMS site card updates, following test excavation.	Requirement for ASIRFs following test excavation added to **Section 9.3.2**
6d	Identify clear hold points and processes for clearance of areas for construction and/or for the development and approval of any required salvage excavation strategy.	Processes for area clearance has been added to **Section 9.3.2** 'Management measures – test excavations'.

	Heritage NSW Comment	Umwelt Response
Aboriginal Heritage Information Management system (AHIMS) site card submissions		
7a	A number of PAD sites are stated as (AHIMS Pending). Please confirm that these have now been registered on AHIMS to facilitate future management.	AHIMS site cards for all areas of PAD identified during the October 2024 and December 2025 survey programs have now been submitted to the AHIMS registrar. AHIMS site IDs for these areas of PAD are now indicated, where relevant
Aboriginal Heritage Information Management system (AHIMS) site card updates		
8a	The results of the assessment indicated that the area of PAD associated with Talbragar 1 (AHIMS 36-2-0077) has been extended north and south of the original area. Please confirm that a site card update has been submitted to capture this result on AHIMS.	The AHIMS site card for Talbragar 1 (AHIMS 36-2-0077) has been updated to reflect the December 2025 survey outcomes.
Aboriginal community consultation RAP documentation		
9a	Please provide evidence that all consultation documentation for the current Modification was provided to A1 Indigenous Services and Gallangbang Aboriginal Corporation, as this is not clearly demonstrated in the material included in **Appendix B**.	A1 Indigenous Services and Gallangbang were unfortanately missed when issuing the draft Mod-3 report. Umwelt has since provided the draft report to A1 Indigenous Services and Gallangbang and included evidence of consultation.
Aboriginal community consultation RAP registration		
10a	It is noted that consultation material was provided to Mudgee Local Aboriginal Land Council (LALC) and that representatives of this organisation participated in the additional survey work; however, Mudgee LALC is not listed as a RAP for the project in **Section 3.2**. Please clarify this discrepancy and confirm whether the list of RAPs requires updating to ensure accuracy.	The omission of Mudgee LALC was an error and has now been amended in the RAP list provided in **Section 3.2**.

2.0 Proposed Modification

2.1 Overview

The Mod-3 Application proposes the following changes to the Approved Development as part of the Mod-3 Layout:

- inclusion of up to seven (7) communication towers (monopoles of up to 40m above ground level) to allow for an alternate communications pathway between substations (if required)
- inclusion of an optional access track off Coolah Creek Road
- micro-site 61 turbines (less than 100 m) and relocate six (6) turbines (greater than 100 m)
- revised locations of ancillary infrastructure including permanent met masts, substations, concrete batch plants, Operation and Maintenance (O&M) facilities, site access points and internal access tracks
- inclusion of discrete additional areas within the Proposed Development Corridor for constructability purposes and to provide flexibility for micro-siting the revised layout
- inclusion of a dedicated Proposed Development Corridor – PRU along the public roads subject to potential upgrades/repairs as authorised under the Development Consent. The Proposed Development Corridor - PRU is proposed to capture the Proposed IDF of the expected road upgrades in accordance with Warrumbungle Shire and Upper Hunter Shire Council design requirements.

The Mod-3 Application proposes to also remove infrastructure components that will not be built. Although the removal of project components does not specifically require modification, this is included as it results in refinements to the Proposed IDF and an overall reduction in ground disturbance of the Mod-3 Layout relative to the Approved Development. The following components will be removed:

- 12 turbines (reducing the maximum number of turbines from 185 to 173)
- removing the External Transmission Line that extends from the wind farm's connection sub-station (located off Rotherwood Road) to Ulan together with the associated infrastructure (including the concrete batch plant, connection substation/switchyard, access tracks and site access points and the full extent of the External Transmission Line Development Corridor) as the wind farm will connect to the grid via the CWO REZ transmission line currently being constructed in accordance with EPBC 2022/09353 and NSW Development Consent SSI 48323210
- use of State Forest Road and most of Turee Vale Road for all Light, Heavy and Over-size/over-mass vehicles during construction and operations of the LRWF Project
- discrete areas of Approved IDF and Approved Development Corridor no longer required.

The net impact of the changes proposed as part of the Mod-3 Application will reduce the extent of overall ground disturbance required for the Approved Development. In particular, the Mod-3 Layout proposes an overall reduction of both the Proposed Development Corridor and IDF to 8,949.9 ha and 1,803.7 ha respectively.

A comparison of the proposed Approved and Proposed Development Corridors and the inclusion of the Proposed Development Corridor - PRU are shown on **Figure 2.1**. The Mod-3 Application is described in further detail in this section of the report. A comparison of the Approved Development and the Mod-3 Layout is shown in **Figure 2.1** and **Table 2.1**.

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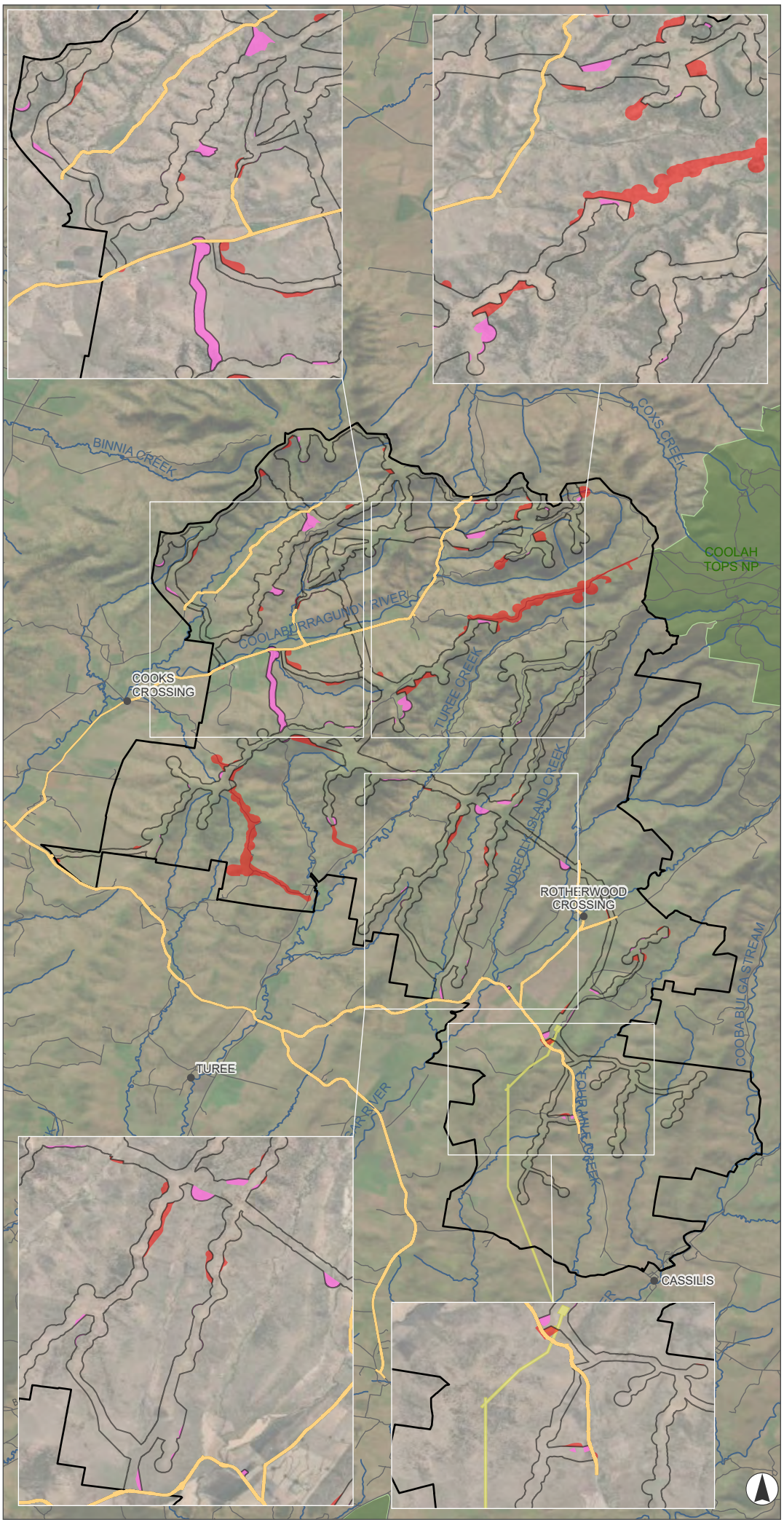
FIGURE 2.1

Development Corridor Comparison



Legend

- Roads
- Named Watercourse
- Proposed Site Boundary
- Approved Development Corridor
- PRU Development Corridor
- Mod-3 Layout Additional Development Corridor
- Mod-3 Layout Development Corridor Removed
- CWO REZ Transmission Corridor
- National Park

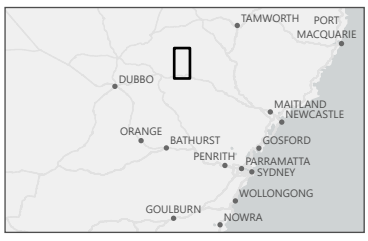


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Table 2.1 Comparison of Approved Development and Mod-3 Application

Aspect	Original SSD-6696 Development Consent (2018)	Approved Development (as modified) (2024/5)	Mod-3 Application (2025) – with comparison against Approved Development
Estimated Generation Capacity (assuming 7.2 MW wind turbine)	962 MW	1,332 MW	Reduction to 1,245.6 MW (-6.5%)
Max Blade Tip Height	165	215 m	No Change
Max number of wind turbines	267	185	Reduction to 173 (-6.5%)
Development Corridor Area	12,405 ha	8,949.9 ha, comprised of: • Wind Farm Development Corridor: 7,409.5 ha • Public Road Upgrade Development Corridor: n/a • External Transmission Line Development Corridor: 1,540.4 ha	Reduction to 7,112.7 ha (-20.5%), comprised of: • Wind Farm Development Corridor: 6,664.2 ha (-10.1%) • Public Road Upgrade Development Corridor: 448.5 ha (+100%) • Removal of External Transmission Line Development Corridor: 1,540.4 ha (-100%)
Indicative Development Footprint (IDF)	752.82 ha	1,803.7 ha, comprised of: • Wind Farm IDF: 1,377.6 ha • Public Road Upgrade IDF: 184.80 ha • External Transmission Line IDF: 240.90 ha	Reduction to 1,581 ha (-12.3%), comprised of: • Wind Farm IDF: 1,109.8 ha (-19.4%) • Public Road Upgrade IDF: 274.30 ha (+48.4%) • Removal of External Transmission Line IDF: 240.90 ha (-100%)
Collector Substations	Up to 4	Up to 7	Reduction to up to 6. Minor relocation of two substations within the Proposed IDF. Collector substation off Rotherwood Road is now a Connection Substation to enable the LRWF Project to connect to CWO Transmission Project

Aspect	Original SSD-6696 Development Consent (2018)	Approved Development (as modified) (2024/5)	Mod-3 Application (2025) – with comparison against Approved Development
Connection Substation	1 (at Ulan)	1 (at Ulan)	Connection substation at Ulan removed. Connection substation is now located in the F Cluster off Rotherwood Road (previously designated as a collector substation). The LRWF Project will now connect to CWO Transmission Project
Internal transmission line	28.19 km	Approximately 41.7 km overhead powerline up to 330 kV	Reduction to approximately 40.1 km (-3.8%). Minor realignment of short section of overhead powerline to connect into revised substation location
External transmission line	56.82 km	Approximately 54.6 km overhead powerline up to 330 kV extending from wind farm to the approved connection point at Ulan	Removed, including all associated access tracks, site access points, temporary construction compounds/laydown areas/batching plants and associated infrastructure.
Reticulation cabling	274.1 km	Approximately 173.5 km underground electrical cabling (up to 33 kV)	Reduction to approximately 162 km (-7%)
Access tracks	284.7 km	Approximately 246.4 km	Reduction to approximately 235.6 km (-4.4%) Minor realignment of approved access tracks Removal and addition of access tracks associated with removal/addition of infrastructure Additional optional access track off Coolah Creek Road

Aspect	Original SSD-6696 Development Consent (2018)	Approved Development (as modified) (2024/5)	Mod-3 Application (2025) – with comparison against Approved Development
Site access point (SAP)	Up to 24	Up to 74 SAPs, comprised of: • Up to 34 to facilitate the wind farm • Up to 40 to facilitate the external transmission line	Reduction to up to 25 SAPs (-68.9%), comprised of: • 4 x new SAPs • 10 x microsited SAPs (<100 m) • 2 x relocated SAPs (>100 m) • 9 x approved SAPs (no change) • Removal of 14 SAPs within the Wind Farm • Removal of 40 SAPs along External Transmission Line
Operation and Maintenance (O&M) facility	1	Up to 3 (total of 3 locations identified)	No change to maximum number. Minor change to the location of 2 x O&M facilities following landowner request and for constructability
Temporary construction compound/laydown area/concrete batch plant (CC/LD/BP)	12	Up to 10 (total of 14 potential locations identified)	No change to maximum number. Total of 20 CC/LD/BP potential locations (including 1 new location for LD only) are proposed. 11 previously approved locations have no change. Changes to potential locations include: • 1 x location increased in area for constructability • 1 x location micro-sited (<100 m) for constructability • 1 x location previously identified as a substation (substation no longer required) • 5 x new locations for constructability • 1 x new location for LD only

Aspect	Original SSD-6696 Development Consent (2018)	Approved Development (as modified) (2024/5)	Mod-3 Application (2025) – with comparison against Approved Development
Temporary Workforce Accommodation Facility (TWA)	N/A	Accommodation to provide for peak workforce of approximately 550 construction workers	No change
Public Road Upgrades/Repairs	Upgrades/repairs to public roads intersections and associated structures	Upgrades/repairs to public roads intersections and associated structures	Removal of State Forest Road and most of Turee Vale Road for use by all Light, Heavy and over-size/over-mass (OSOM) vehicles associated with the LRWF Project. Updates to ground disturbance (Proposed IDF) estimates following further detailed design and consultation with Councils regarding pavement design. Inclusion of the Proposed Development Corridor – PRU to facilitate further detailed design and to ensure all relevant environmental constraints are identified
Permanent Wind Monitoring Masts	10	Up to 10	No change to maximum number– minor refinement to locations associated with refined turbine layout
Temporary site calibration monitoring masts	N/A	Up to 10	No change.
Communication towers	N/A	N/A	Inclusion of up to 7 x communication towers (monopoles up to 40 m in height above ground level)

3.0 Aboriginal Consultation

3.1 Overview

Consultation with Aboriginal parties was undertaken for the Mod-1 Development as part of the ACHA (Umwelt 2022), including the two (2) subsequent Addendum ACHAs for the accommodation camp (TWA) (Umwelt 2023a, 2023b), in accordance with consultation requirements prescribed by the National Parks and Wildlife Regulation 2019 (NPW Regulation) and the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW 2010a) (the consultation requirements). Section 3 of the Mod-1 ACHA (Umwelt 2022) provides detail about Aboriginal consultation up until the completion of the Mod-1 ACHA.

A summary of the consultation process for this ACHA and its outcomes are provided in the sections below, and documentation of the consultation process is provided in **Appendix B**.

3.2 Registered Aboriginal Parties

The Registered Aboriginal Parties (RAPs) remain unchanged from the original registration process undertaken for the Mod-1 ACHA (Umwelt 2022). Consultation with Heritage NSW was undertaken in September 2025 regarding the continuation of consultation with established RAPs. Heritage NSW confirmed via email dated 1 September 2025 no concerns with the proposal to continue consultation with the existing RAP group maintained through the Liverpool Range Wind Farm Windfarm SSD-6696 Modification 1 for the assessment of the proposed Modification 3 (refer to **Appendix B.1**).

As a result of the LRWF Project notification and registration process, the following Aboriginal parties registered an interest in ongoing consultation regarding the LRWF Project:

- Mudgee Local Aboriginal Land Council (LALC)
- Walhallow Local Aboriginal Land Council
- Corroboree Aboriginal Corporation
- AT Gomilaroi Cultural Consultancy
- DFTV Enterprises
- Didge Ngunawal Clan
- Kawul Pty Ltd trading as Wonn1 Sites
- Nunawanna Aboriginal Corporation
- Ungooroo Aboriginal Corporation
- Widescope Indigenous Group
- Gunjeewong Cultural Heritage Corporation
- White Cockatoo (Michael Long)
- Murong Gialinga Aboriginal & Torres Strait Islander Corp
- Gomeroi Native Title RAP
- Muragadi

- Brian Draper
- Gomeroi Murri Ganuurr Yuuray Wadi Palinka
- Natasha Rodgers
- Gallangbang Aboriginal Corporation
- Wellington Valley Wiradjuri Aboriginal Corporation
- A1 Indigenous Services
- Warrabinga Native Title Claimants Aboriginal Corporation.

3.3 Aboriginal Consultation and Engagement

3.3.1 Liverpool Range Wind Farm Modification 1 – Additional Road Upgrade Works ACHA (2025)

In 2024, RAPs were notified about the requirements for further assessment associated with proposed road upgrade works which were intended to be addressed as an addendum ACHA to the Mod-1 Development. RAP representatives were invited to participate in archaeological survey program completed for the Addendum ACHA (refer to **Appendix B.2**).

Umwelt conducted an archaeological field survey of the Additional Road Upgrade Project Area (now incorporated into the Proposed IDF) with the assistance of RAP field representatives over a total of three (3) days between 22 October and 24 October 2024. The primary objective of the survey was to assess those portions within the Site Boundary associated with the road infrastructure upgrades that had not previously been assessed as part of the Approved Development, that fell within potentially sensitive landforms and/or were of significant enough size to warrant further investigation.

To maintain consistency and cohesion with the previous survey program undertaken for the Mod-1 ACHA (Umwelt 2022), the same survey participants were invited to participate in the survey program. RAPs were invited by email on 4 October 2024 to participate in the survey (refer to **Appendix B.2**).

The RAP field representatives who were participated in the survey program are listed in **Table 3.1** below.

Table 3.1 Aboriginal Party Survey Participants

Date	Organisation	Name
22 October 2024	Murong Gialinga	Steven Flick
	White Cockatoo	Michael Long
	AT Gomilaroi Cultural Consultancy	Dylan Nean
	Wellington Valley Wiradjuri Aboriginal Corporation	Bradley Bliss
	Brian Draper	Brian Draper
	Gomeroi Native Title RAP	Roslyn Nean
	Walhallow Local Aboriginal Land Council	Michelle Saunders
	Mudgee Local Aboriginal Land Council	Jai Tanner
23 October 2024	Murong Gialinga	Steven Flick
	White Cockatoo	Michael Long
	AT Gomilaroi Cultural Consultancy	Dylan Nean
	Wellington Valley Wiradjuri Aboriginal Corporation	Brenda Waters
	Brian Draper	Brian Draper
	Gomeroi Native Title RAP	Roslyn Nean
	Walhallow Local Aboriginal Land Council	Michelle Saunders
	Mudgee Local Aboriginal Land Council	Jai Tanner
24 October 2024	Murong Gialinga	Steven Flick
	White Cockatoo	Michael Long
	AT Gomilaroi Cultural Consultancy	Dylan Nean
	Wellington Valley Wiradjuri Aboriginal Corporation	Brenda Waters
	Brian Draper	Brian Draper
	Gomeroi Native Title RAP	Roslyn Nean
	Walhallow Local Aboriginal Land Council	Michelle Saunders
	Mudgee Local Aboriginal Land Council	Jai Tanner

A draft report was provided to the RAPs for review and comment on 5 February 2025 (**Appendix B.3**). Comments received (as of 7 March 2025) from RAPs on the proposed management measures included in this report are provided in **Table 3.2** below and were in support of the ACHA.

Following RAP review of the draft ACHA in 2024, the Applicant refined their approach to the assessment and approval pathway for the works. As a result, the draft ACHA was not finalised and submitted but was subsequently consolidated into this report as part of the Mod-3 Application.

Table 3.2 Aboriginal Party Comments on Draft Addendum ACHA (that has been amalgamated into this Mod-3 ACHA)

Date	Organisation	Name	RAP Comment	Umwelt Response
5 February 2025	Didge Ngunawal Clan	Lilly Carroll	Agreed with the methods and findings of draft Addendum ACHA.	Acknowledged with thanks.
7 February 2025	AT Gomilaroi Cultural Consultancy	Aaron Talbott	Agreed with the methods and findings of draft Addendum ACHA. Additionally, Aaron Talbot stressed that preservation of culturally modified trees is preferable to removal.	Acknowledged with thanks. Umwelt confirmed that Iterative redesign and micro-siting of proposed works have and will be utilised to reduce impacts to Aboriginal sites where possible.
17 February 2025	Wellington Valley Wiradjuri Aboriginal Corporation (WVWAC)	Bradley R. Bliss	Agreed with the methods and findings of draft Addendum ACHA.	Acknowledged with thanks.
18 February 2025	Warrabinga-Wiradjuri #7 Native Title Claimants	Kylie Manson	Agreed with the methods and findings of draft Addendum ACHA.	Acknowledged with thanks.
5 March 2025	Gomeroi Native Title RAP	Rose Nean	Agreed with the methods and findings of draft Addendum ACHA.	Acknowledged with thanks.
6 March 2025	Muragadi	Anthony Johnson	Agreed with the methods and findings of draft Addendum ACHA.	Acknowledged with thanks.

3.3.2 Liverpool Range Wind Farm Modification 3

On 8 October 2025 (**Appendix B.4**), all RAPs were supplied with the following documents:

- Liverpool Range Wind Farm Modification 3: Project Information and Proposed Methodology for Aboriginal Cultural Heritage Assessment
- Liverpool Range Wind Farm Modification 3: Confirmation of Fieldwork Personnel – Cultural Heritage Surveys and Fieldwork.

The 28-day review period was observed, however, if RAPs supplied comment beyond this period they were included.

Comments received from the RAPs on the proposed ACHA methodology for the Mod-3 Application are provided in **Table 3.3** below and were in support of the approach.

Table 3.3 Aboriginal Party Comments on Draft ACHA methodology

Date	Organisation	Name	RAP Comment	Umwelt Response
8 October 2025	AT Gomilaroi Cultural Consultancy	Aaron Talbott	Agreed with the methods and findings of draft ACHA methodology.	Acknowledged with thanks.
27 October 2025	A1 Indigenous Services	Carolyn Hickey	Agreed with the methods and findings of draft ACHA methodology.	Acknowledged with thanks.
5 November 2025	Mudgee Local Aboriginal Land Council	Aleshia Lonsdale	Agreed with the methods and findings of draft ACHA methodology.	Acknowledged with thanks.
6 November 2025	Gomeroi Native Title RAP	Rose Nean	Agreed with the methods and findings of draft ACHA methodology.	Acknowledged with thanks.
10 November 2025	Brian Draper	Brian Draper	Agreed with the methods and findings of draft ACHA methodology.	Acknowledged with thanks.

Umwelt conducted an archaeological field survey of portions of the Proposed Development Corridor – PRU and the Proposed Development Corridor with the assistance of RAP field representatives over a total of three (3) days (between 2 December and 4 December 2025). The primary objective of the survey was to assess those portions of the Proposed Development Corridor – PRU and the Proposed Development Corridor that fell within archaeologically sensitive landforms and/or were of significant enough size to warrant further investigation.

The RAP field representatives who were represented in the survey are listed in **Table 3.4** below.

Table 3.4 RAP Survey Participants

Date	Organisation	Name
2 December 2025	AT Gomilaroi Cultural Consultancy	Aaron Talbott
	Brian Draper	Kerry Morgan
	Mudgee Local Aboriginal Land Council	Jai Tanner
3 December 2025	Nunawanna Aboriginal Corporation	Kerry Morgan
	Warrabinga Native Title Claimants Aboriginal Corporation	Corall Williams
4 December 2025	Didge Ngunawal Clan	Aaron Taylor
	White Cockatoo	Kerry Morgan
	Wellington Valley Wiradjuri Aboriginal Corporation	Brenda Waters

A draft of this ACHA was provided to the RAPs for review and comment on 6 March 2026 (refer to **Appendix B.5**), with responses requested by 3 April 2026. Comments received from RAPs on the proposed management measures included in this report are provided in **Table 3.5** below.

Three (3) RAPs responded providing comment on the report's findings and management recommendations. All three (3) stated their approval of the findings of the report and supported the management measures proposed in the ACHA.

Consultation remains ongoing, with RAPs encouraged to continue to provide feedback on the Mod-3 ACHA, its findings and recommendations relating to the management of Aboriginal cultural heritage. Additional responses will continue to be documented and will be acknowledged where appropriate.

Table 3.5 Aboriginal Party Comments on Draft Mod-3 ACHA

Date	Organisation	Name	RAP Comment	Umwelt Response
11 March 2026	Warrabinga – Wiradjuri #7 Native Title Claimants	Mick Fallon	Requested link to draft ACHA be re-sent.	Acknowledged request, and resent link. Mick Fallon confirmed that they received the draft ACHA.
16 March 2026	A1 Indigenous Services	Carolyn Hickey	Agreed with the findings and recommendations of draft ACHA.	Acknowledged with thanks.
18 March 2026	Wellington Valley Wiradjuri Aboriginal Corporation (WVWAC)	Bradley R. Bliss	Agreed with the findings and recommendations of draft ACHA.	Acknowledged with thanks.
19 March 2026	Warrabinga – Wiradjuri #7 Native Title Claimants	Kylie Manson	Agreed with the findings and recommendations of draft ACHA.	Acknowledged with thanks.

Umwelt conducted further targeted archaeological field survey in June 2026 to reinspect five (5) trees exhibiting wounding that had previously been recorded as cultural modification. A specialist arboriculturist (Urban Tree Management Australia Pty Ltd) was engaged to inspect the trees and provide a condition assessment of each of the trees and options for long term management and/or avoidance solutions. Two (2) stakeholder representatives were in attendance during the inspection – Ms Rose Neal and Mr David Horton.

The ACHA will be issued to the RAPs upon finalisation of this version.

4.0 Environmental Context

The decisions that past Aboriginal people made regarding such things as where they lived, the range of resources they used, and other aspects of daily life may be influenced by the environment in which they live. Landscape features were an important factor for the choice of camping and transitory and ceremonial areas used by Aboriginal people. The preservation and visibility of sites is also affected by environmental factors such as vegetation cover, past land-use and disturbance. A review of the environmental context of the assessment is therefore integral to considerations of site visibility, preservation and occurrence within the Site Boundary and surrounding environs.

For overarching environmental context of the LRWF Project location refer to Section 4 of the Mod-1 ACHA (Umwelt 2022), this context has been used to inform the assessment of the Proposed Development Corridor associated with the Mod-3 Layout (the focus of this report). This section provides a summary of key environmental information and discusses the implications of this information for the archaeological evaluation specifically relating to the Mod-3 Layout and associated Proposed Development Corridor.

4.1 Landscape Setting

The majority of the Proposed Development Corridor is located in a plateaued region of the Great Dividing Range. This area consists of multiple dissected plateau/crest landforms, ridges, and spurs, and is generally comprised of undulating plateau tops with steep margins, grading to long slopes of moderate to steep gradients and drainage depressions. Local relief can vary between 30 and 100 m with slope gradients between 5 and 20% (NSW Archaeology 2017). The Coolah Tops National Park contains the highest point in the surrounding area, and although not within the Proposed Development Corridor, it represents the dominating landform.

4.2 Hydrology

The Proposed Development Corridor extends across numerous minor tributaries and drainage channels, with the key watercourses in the area discussed in terms of those associated with the Proposed Development Corridor.

The major watercourses within the Proposed Development Corridor are the Coolaburragundy River and the Talbragar River, and their major tributaries including Gundare Creek, Diana Creek, Snake Creek, Turee Creek and Starkeys Creek. The major tributaries are generally second or third order streams (*sensu* Strahler 1952), with the lower reaches of Turee Creek and Starkeys Creek being the most well-formed and defined. The Coolaburragundy River and Talbragar River are fourth to fifth order rivers. These watercourses drain a relatively limited catchment area however the nature of the landforms (predominantly comprising crests trending to very steep to steep slopes) dictates that all rainfall is captured and rapidly channelled via minor drainage lines to these key tributaries and rivers. The Coolaburragundy and Talbragar Rivers would have provided the most reliable water sources in the local area but, in this area, may not have provided year-round water based on the morphology and appearance of these watercourses. Flows in the other named creeks are variable depending on the level of recent rainfall. Other minor tributaries would have held flow only for short periods following rainfall.

4.3 Soil Landscape and Geology

Geological units underlying the Proposed Development Corridor predominantly consist of the Liverpool Range Beds (comprising basalts and dolerite) which extends across much of the elevated landforms, giving way to Pillaga Sandstone (comprising quartz sandstone, conglomerate and claystone) on slopes trending towards drainage lines and areas from upper slope towards drainage lines and Quaternary alluvium (alluvium, sand and gravel) in low inclination landforms associated with drainage lines (refer to Gilgandra 1:250,000 Geological Sheet).

Of these stone raw materials, rhyolitic tuff was often used in the manufacture of stone artefacts whilst basalt of suitable quality was utilised for the manufacture of items such as ground edge axes. Further to this, sandstone outcrops exposed along creek lines were often utilised as a medium for grinding of axes, resulting in the formation of grinding grooves along such outcrops. Lastly, where sandstone is present in exposed steep-very steep slopes and weathers appropriately, large overhangs suitable for use as rock shelters can form. Rock shelters are unlikely to occur based on the topography of the LRWF Project.

The soils within the Proposed Development Corridor are predominately comprised of stony red brown loams on the ridges, shallow stony clay soils on the steeper slopes, and thicker deep black earths and self-mulching clays on lower slopes. The LRWF Project is underlain by the Bow, Ant Hill, Argowen, Cranbourne, Galla Gilla, Merriwa River, Kindamindi, Erin, Coober-Bulga, Curryall, Dunwell, Warung, Yarramoor, Sandy Hollow, Summer Hill, Tingaroo, Durridgere, Hands on Rock and Pigeon Box soil landscapes.

Soil depth can vary from very shallow to shallow (<25–50 cm) on crests, upper slopes and benches, moderately deep to deep (<50–150 cm) on hillslopes, drainage channels and stream channels to very deep (150–500 cm) on lower slopes, floodplains, and some crests and slopes. The majority of these soil profiles are erosional on crests and slopes and alluvial bordering key watercourses.

Overall, soils indicate that the Proposed Development Corridor has topsoils (A horizons) varying in depth of up to approximately 50 cm, but which are likely to vary considerably based on landform feature and erosion levels (e.g. hill crests are likely to be deflated, while lower slopes and plains are likely to have deeper aggraded profiles). The presence and depth of topsoil is a key component of assessing archaeological potential in areas where Aboriginal objects are predicted.

4.4 Resource Availability

Broadly, the region surrounding and within the Proposed Development Corridor would have contained dry sclerophyll forest with grass/scrub understory of broadleaf peppermint (*Eucalyptus dives*) and scribbly gum (*E. haemastoma*), prior to vegetation clearance. Additional tree species may have included Red stringy bark (*E. macrorhyncha*), candlebark (*E. rubida*), redbox (*E. polyanthemos*), grey gum (*E. punctata*), applebox (*E. bridgesiana*), red gum (*E. camaldulensis*), grey box (*E. moluccana*), yellow box (*E. melliodora*), white box (*E. albens*) and black cypress pine (*Callitris endlicheri*).

This vegetation community may have been habitat for varied large and small mammal species, bird species, amphibians and reptiles. This includes possums (brush tails, ring tail and pygmy), large marsupials (grey kangaroo and black wallaby), antechinus, bats, squirrel glider, wombat, koala and bilby. Species of bandicoot, dunnarts, planigale, numbat, quoll, bettong, native mice and rats including the water rat were also present (Go Green Services 2002). However, due to the level of historical and contemporary vegetation clearance and disturbance, native habitats suitable for supporting this diversity of species is limited to steep slopes inaccessible to logging activities (Ozark, 2023). Prior to European colonisation of the region, the Proposed Development Corridor would have

provided a diverse range of resources for Aboriginal people, both for sustenance, raw materials or fibres and for medicinal purposes.

Due to the proximity to both the Coolaburragundy River and the Talbragar River, riverine resources would have been readily available to Aboriginal people. Fish and shellfish species would have been widely available and exploited on a seasonal basis.

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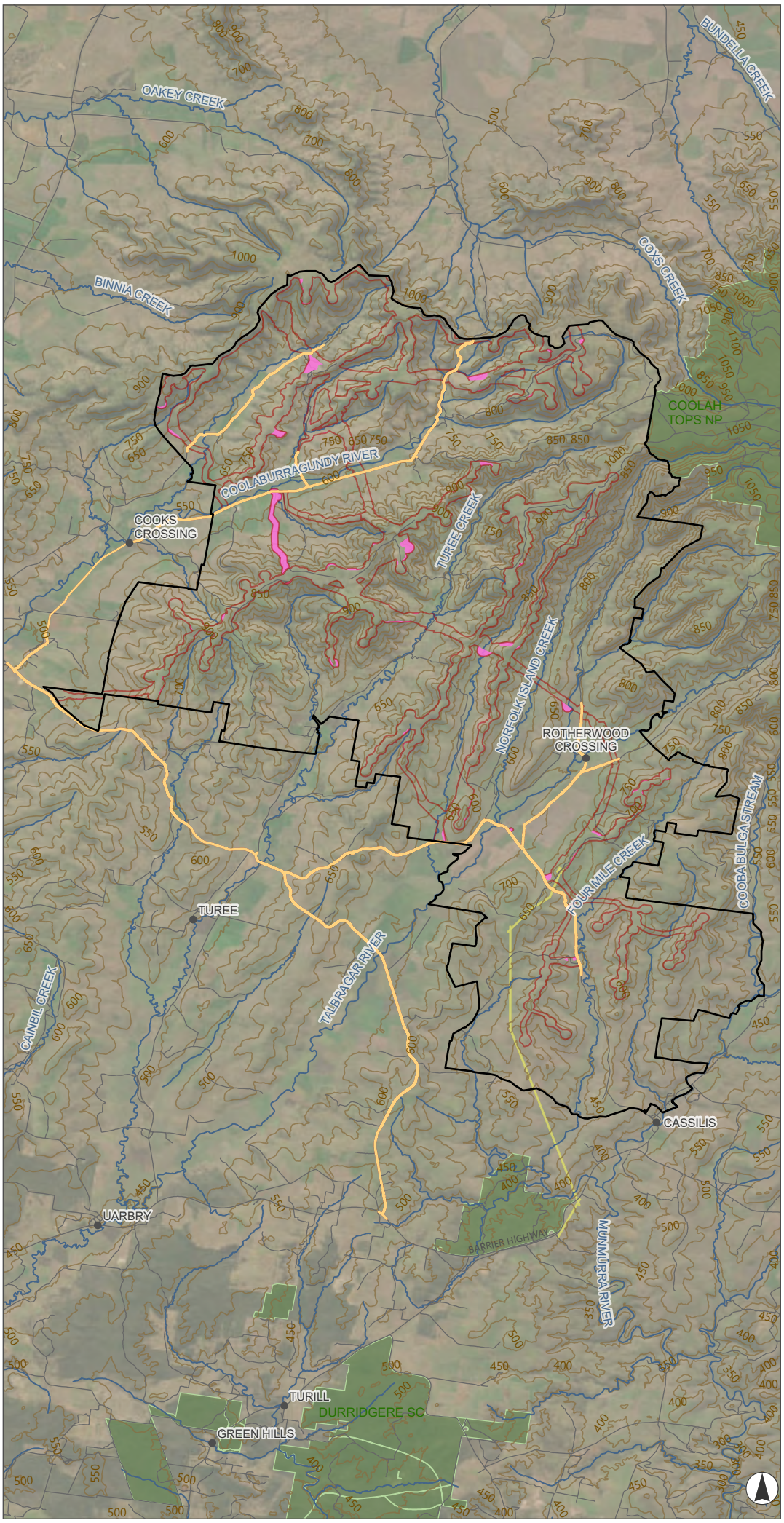

FIGURE 4.1

Topography and Hydrology

Legend

- Roads
- Contours 50m
- Named Watercourse
- Proposed Site Boundary
- Indicative Development Corridor
- Mod-3 Layout Additional Development Corridor
- CWO REZ Transmission Corridor
- National Park

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Kilometres

Scale 1:235,000 at A4
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4.4.1 Land Use Disturbance

The area within and surrounding the Proposed Development Corridor is currently a predominately agriculturally based region. The key industries remain cattle breeding, wool and lamb production, crops, and cattle grazing. Disturbance associated with these land uses include vegetation clearing, increased erosion (sheet and gully), topsoil stripping/modification/movement, rock picking, introduction of materials for tracks/creek crossings/hardstands and impacts from low density construction.

4.5 Summary

Based on a review of the available environmental information, the Proposed Development Corridor consists primarily of high elevation crests and ridgelines bordered by moderate to very steep slopes, which trend to low inclination slopes bordering the Coolaburragundy River, Talbragar River, Starkeys Creek and Turee Creek. Of these watercourses, the Coolaburragundy and Talbragar Rivers are the primary water resource in the local area, providing reliable water for much of the year. In general terms, the majority of landforms within the Proposed Development Corridor are not conducive to extended occupation by Aboriginal people, with ridgelines and crests typically being used transiently and moderate to steep slopes used mainly in transitioning between areas. Key landforms suitable for occupation are the gently inclined slopes bordering the major watercourses named earlier.

In terms of other resources, prior to European intervention, the area would have been relatively well resourced with an array of plant and animal species. However, across much of the Proposed Development Corridor, lower slopes bordering major watercourses have been subject to impacts from vegetation clearance, cultivation, and pastoral use. Soils associated with these landforms are typically easily dispersible and feature deep cracking clays that are readily subject to disturbance. Similarly, vegetation clearance on slopes and crests has increased erosion, thereby further reducing the depth of the already shallow soil profiles in these areas.

5.0 Aboriginal Cultural Context

The previous assessments undertaken by Umwelt for the Mod-1 Development concluded that the majority of the land within the Proposed Development Corridor was assessed as having low archaeological potential as it comprised landforms that did not provide direct access to water resources, have a slope inclination that is not conducive to camping/occupation activities, have limited depth of topsoil (within which subsurface deposits may be located) and/or had been disturbed.

Localised areas of archaeological potential, in line with the predictive model for the region, include three areas along the Coolaburragundy River, two areas on the Talbragar River, two areas on Gundare Creek, two areas on Turee Creek, areas on Junction Creek, Snake Creek, Mooki Creek and Diana Creek and a section of upland basin. In these areas, the assessed level of archaeological potential is low to moderate or moderate (depending on the individual context). The nature and location of these areas of potential is consistent with the archaeological predictions for the local area.

The archaeological potential of these landforms could be clarified by the completion of test excavations under the provisions of the Code of Practice. However, the nature of the Approved Development was such that final impact locations within the Site Boundary will be determined post-approval during further design and construction planning. On this basis, it was not possible to determine a defined footprint within which impacts will occur, which would in turn inform test excavation locations. Undertaking test excavation at that stage of assessment would risk impacting archaeological deposits that may not be subject to impacts associated with the Proposed Development Corridor. In addition, based on the level of potential (and disturbance) at many of the locations, there were no grounds to undertake controlled excavation as there was limited likelihood that the deposits will retain integrity and therefore would have limited capacity to inform our understanding of the site beyond the presence or absence of artefacts. The same considerations must be applied to the Proposed Development Corridor for the Mod-3 Layout.

5.1 Archaeological Context

A review of available archaeological information is crucial to the archaeological assessment process, as it informs our understanding of archaeological site patterning, site survival and the potential for detection of extant archaeological sites. This information is discussed with reference to the outcomes of a search of the Aboriginal Heritage Information Management System (AHIMS) database (which documents the location and nature of sites for which site cards have been lodged with Heritage NSW) and a summary of the outcomes of previous archaeological investigations in the local area. This information is then considered with reference to key environmental characteristics discussed above to establish a predictive archaeological model for the approved site boundary.

5.1.1 Aboriginal Heritage Information Management System (AHIMS)

Umwelt completed four searches of the AHIMS database on 6 and 7 September 2024 (AHIMS ID # 928222, 928220, 928218 and 928790) covering the extent of the works as they were structured at that time. These four AHIMS searches confirmed the presence of 186 Aboriginal sites in the region, three of which are classified as ‘Not a Site’, leaving a total of 183 valid Aboriginal sites.

Subsequently, Umwelt undertook three further AHIMS searches on the 29 January 2026 (AHIMS ID # 1086603, 1086604 and 1086608) covering the extent of the Proposed Development Corridor. The three AHIMS searches confirmed the presence of 133 Aboriginal sites in the region, one of which was classified as 'Not a Site', leaving a total of 132 valid Aboriginal sites.

As indicated in **Table 5.1**, the dominant site type represented in the AHIMS search results were open artefact sites, representing 62.1% (n=82) of the total search results. Culturally modified trees [1] were relatively common (n=21, 15.9%), as were grinding grooves (n=10, 7.6%). The relative abundance of recorded areas of potential archaeological deposit (PAD) (n=14, 10.6%) attest to the number of archaeological investigations in the region and the prevalence of landforms suggesting favourability for past Aboriginal occupation. The relative paucity of shelter sites, (n=4, 3.1%) suggests a general absence of geological conditions suitable for overhang formation.

A single restricted site was also recorded in the AHIMS search area. Correspondence with Heritage NSW indicated the restricted site was not located within the Project Site Boundary[2].

The locations of Aboriginal sites are shown in **Figure 5.1** to **Figure 5.6**. The AHIMS search results are attached in **Appendix A**. The searches produced a result of thirteen (13) Aboriginal sites within 50 m of the Proposed Development Corridor - PRU. These sites are summarised in **Table 5.2** below.

Table 5.1 AHIMS Search Results

Site Types	Count (n)	Percentage of Total
Open Artefact Site	82	62.1
Culturally Modified Tree	21	15.9
Potential Archaeological Deposit (PAD)	14	10.6
Grinding Groove	10	7.6
Shelter Site	4	3.1
Restricted	1	0.7
Total	**132**	**100%**

[1] The results of a re-assessment of culturally modified trees that fall within the current Proposed Development Corridor – PRU are presented in Section 6.2.3

[2] Email confirmation from Heritage NSW on 5 February 2026 confirmed that the restricted site AHIMS # 36-3-4370 will not be impacted by any works conducted for the Mod-3 Layout (David Gordon, pers. comm.).

Table 5.2 Aboriginal Sites within the Proposed Development Corridor – Public Road Upgrades

AHIMS #	Site Name	Site Type	Description from Mod-1 ACHA (Umwelt 2024)
28-6-0070	Snake Creek	Potential Archaeological Deposit (PAD)	Low inclination slopes bordering tributary of the Coolaburragundy River but that are sufficiently elevated that any deposits present may retain integrity.
28-6-0071	Coolaburragundy River 4	Potential Archaeological Deposit (PAD)	Low to moderate potential outside current road/culvert footprint as are located in the upper reaches of the river and subject to disturbance associated with existing roads and water crossings.
28-6-0072	Coolaburragundy River 3	Potential Archaeological Deposit (PAD)	Low to moderate potential outside current road/culvert footprint as are located in the upper reaches of the river and subject to disturbance associated with existing roads and water crossings.
28-6-0078	Coolaburragundy River 1	Potential Archaeological Deposit (PAD	Low to moderate potential outside current road/culvert footprint as are located in the upper reaches of the river and subject to disturbance associated with existing roads and water crossings.
28-6-0067	Turee Creek 2	Potential Archaeological Deposit (PAD	Turee Creek 2 is on the south side of the creek and comprises lower slopes potentially subject to regular inundation, therefore reducing the potential for deposits within integrity. Turee Creek 2 has low-moderate potential.
28-6-0068	Turee Creek 1	Potential Archaeological Deposit (PAD	The terrace has potential for archaeological deposits that may retain some integrity and has moderate archaeological potential.
36-2-0077	Talbragar River 1	Potential Archaeological Deposit (PAD), Grinding Groove	Low-moderate potential outside current road footprint.
36-2-0078	Talbragar River 2	Potential Archaeological Deposit (PAD), Grinding Groove	Low-moderate potential outside current road footprint.
28-6-0022	Collieblue	Modified Tree[1]	Oval scar on box tree within road reserve.
28-6-0080	LRWF ST 2	Modified Tree[1]	LRWF ST2 is a live box tree located in the road reserve along Rotherwood Road. It exhibits a suboval scar located approximately 80 cm from the base of the tree.
28-6-0020	Quindalup	Modified Tree	Oval scar on live box tree within road reserve.
28-6-0021	Quindalup 2	Modified Tree[2]	Oval scar on dead tree within road reserve.
36-3-4173	LRWF ST 3	Modified Tree[1]	LRWF ST3 is a live box tree located in the road reserve of Vinegaroy Road. It has a scar that is subovoid in shape and commences approximately 35 cm from the base of the tree. The scar is 156 cm long by 36 cm wide with approximately 40 cm of callus regrowth on its margins.

1. This site was subject to further inspection which confirmed the modifications to the tree were not the result of cultural modification (refer to **Section 6.2.3**).
2. Could not be located during the inspection.

5.1.2 Other Aboriginal sites

In 2014, two (2) discrete landforms were identified by NSW Archaeology as having archaeological sensitivity on the basis of proximity to major watercourses. Although the two areas were not registered on the AHIMS register as areas of PAD, NSW Archaeology nevertheless recommended avoidance measures to mitigate potential impact to subsurface Aboriginal objects, should they be present. The two landform units 'LU42i' and 'LU26b' fall within the 50 m of the Proposed Development Corridor – PRU.

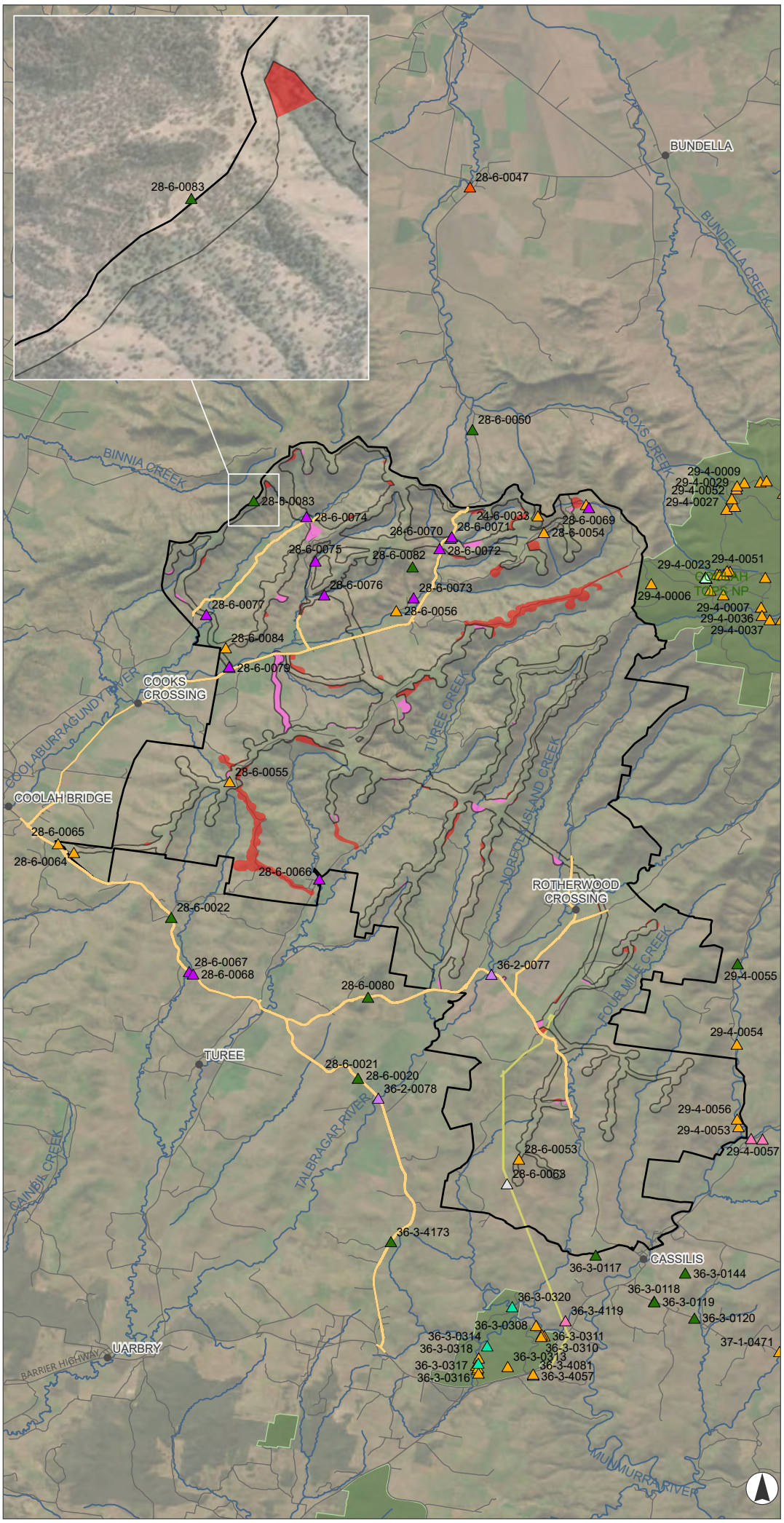


FIGURE 5.1

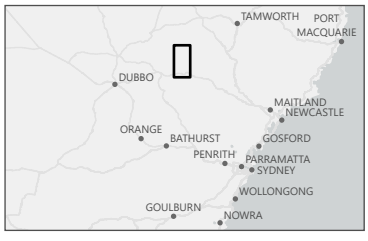
AHIMS Sites in the Vicinity of the Mod-3 Application Additional Development Corridor and the PRU Development Corridor

Legend

- Roads
- Named Watercourse
- Approved Site Boundary
- Approved Development Corridor
- PRU Development Corridor
- Mod-3 Application Additional Development Corridor
- Mod-3 Application Development Corridor Removed
- CWO REZ Transmission Corridor
- National Park

AHIMS

- Culturally Modified Tree
- Grinding Groove
- Not a Site
- Open Artefact Site
- Open Artefact Site with Hearths
- Potential Archaeological Deposit (PAD)
- Potential Archaeological Deposit (PAD) with Grinding Groove
- Shelter Site
- Shelter with Art



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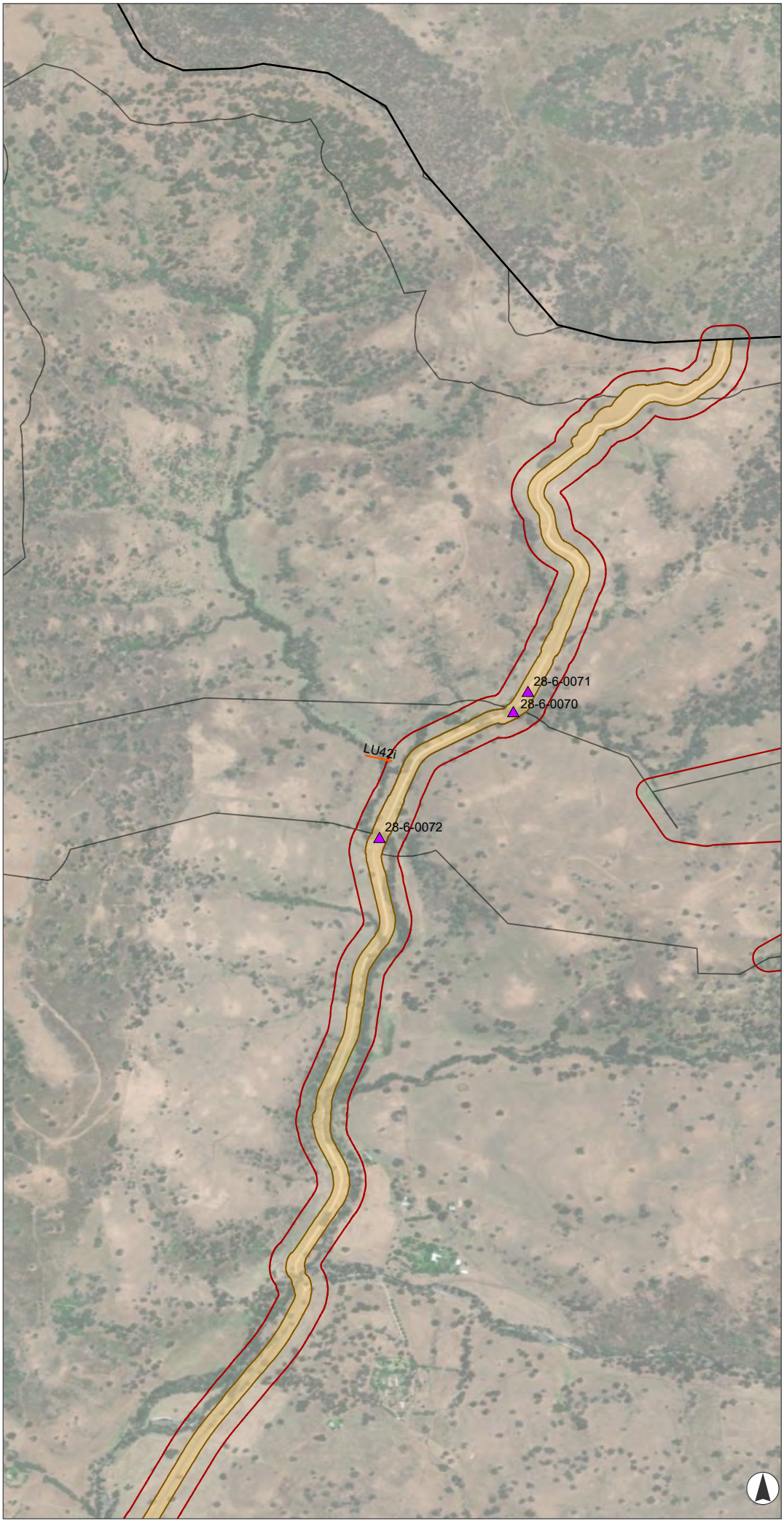

FIGURE 5.2

Aboriginal Sites within 50m of the Mod-3 Application Additional Development Corridor and the PRU Development Corridor

Legend

- Heritage Items NSW Archaeology
- Approved Site Boundary
- Proposed Indicative Development Corridor
- PRU Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)

AHIMS

- Potential Archaeological Deposit (PAD)

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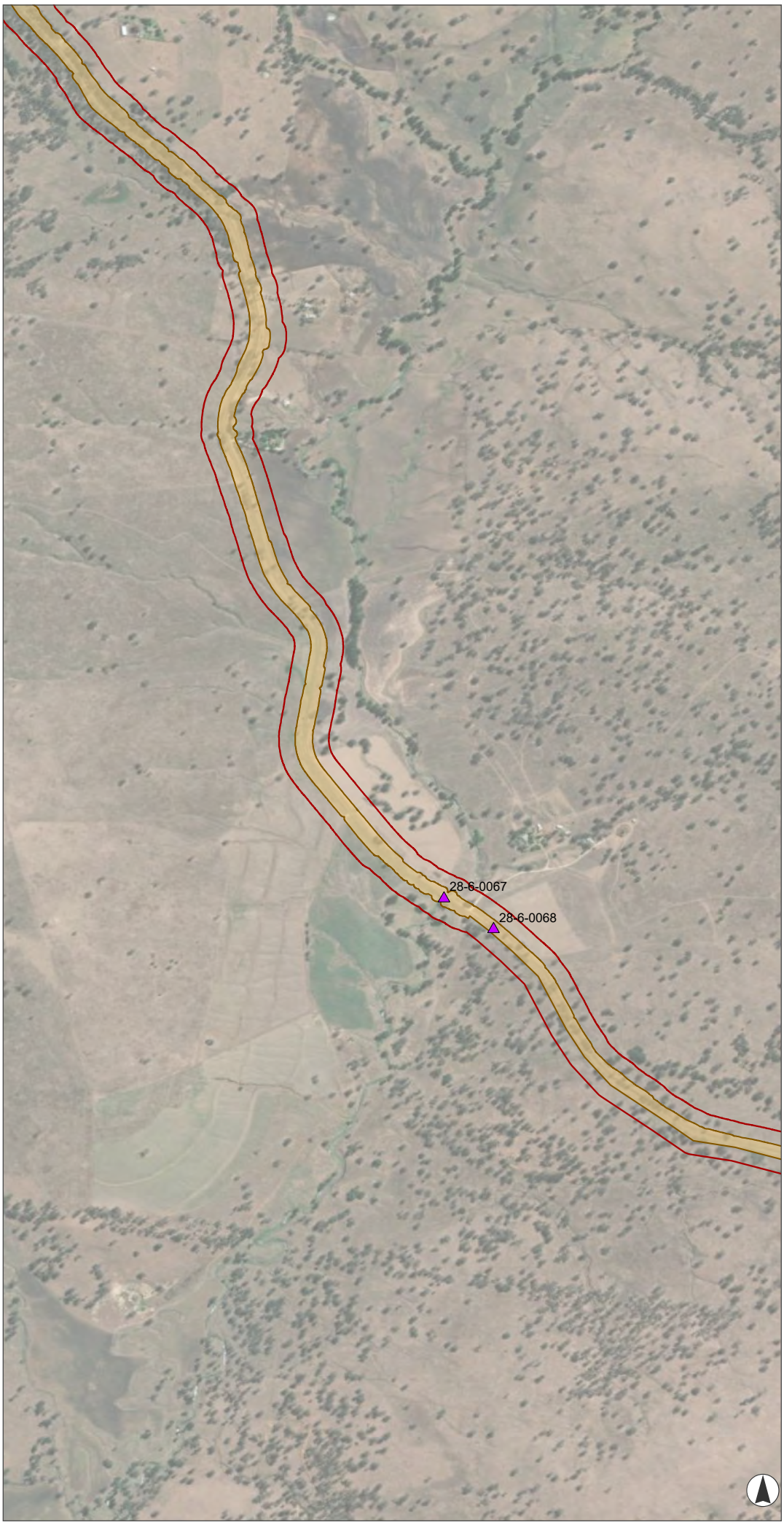

FIGURE 5.3

Aboriginal Sites within 50m of the Mod-3 Application Additional Development Corridor and the PRU Development Corridor

Legend

- Proposed Indicative Development Corridor
- PRU Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)

AHIMS

- Potential Archaeological Deposit (PAD)

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FIGURE 5.4

Aboriginal Sites within 50m of the Mod-3 Application Additional Development Corridor and the PRU Development Corridor

Legend

- Proposed Indicative Development Corridor
- PRU Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)

AHIMS

- Culturally Modified Tree
- Culturally Modified Tree - Destroyed
- Potential Archaeological Deposit (PAD) with Grinding Groove

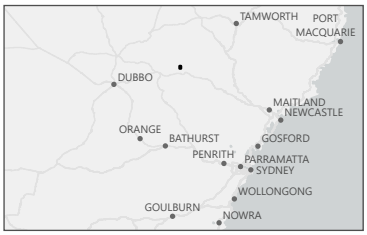

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FIGURE 5.5

Aboriginal Sites within 50m of the Mod-3 Application Additional Development Corridor and the PRU Development Corridor

Legend

- Heritage Items NSW Archaeology
- Approved Site Boundary
- Proposed Indicative Development Corridor
- PRU Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)

AHIMS

- Potential Archaeological Deposit (PAD) with Grinding Groove

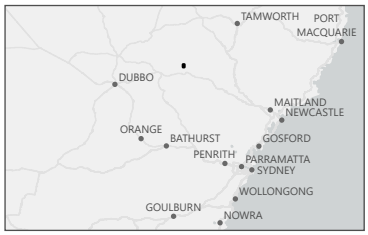

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FIGURE 5.6

Aboriginal Sites within 50m of the Mod-3 Application Additional Development Corridor and the PRU Development Corridor

Legend

- Proposed Indicative Development Corridor
- PRU Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)

0 0.5 1

Kilometres

Scale 1:20,000 at A4
GDA2020

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5.2 Predictive Model

Based on the findings of prior archaeological investigations within the wider Southwestern Slopes region, several predictions can be made regarding Aboriginal occupation of the area. These predictions primarily concern the nature, extent, and preservation of the remaining evidence.

In terms of the land within the Proposed Development Corridor, the following predictions were made concerning the probability and potential for landforms within the Proposed Development Corridor to contain additional Aboriginal sites:

- Isolated finds or open artefact scatters may occur anywhere across the landscape. A general correlation between different types of watercourses and evidence of past Aboriginal occupation is evident. Higher artefact density sites are in proximity to permanent water sources and low-density artefact distributions are likely to be found at a greater distance from reliable water sources. The potential for subsurface stone artefact deposits is highly dependent on landform, proximity to water, depth of soils and the extent of previous disturbance across the landscape.
- Site types typically associated with sandstone terrain, such as grinding grooves **have the potential** to be present within the Proposed Development Corridor associated with watercourses. Other sandstone terrain sites such as rock art sites, petroglyphs (rock engravings), and sandstone rock shelters with art and/or archaeological deposits are **not anticipated**.
- Culturally modified trees **have the potential to be present** due to the presence of extant mature native vegetation dispersed throughout the Proposed Development Corridor.
- Stone and ochre quarries are possible, as rock outcroppings are present in the wider environs. Previous studies show that these site types are most likely to be identified on hill crests and ridgelines.
- Hearths or ovens are possible in areas where A-horizon soils are relatively undisturbed. The likelihood of identifying this site type *in situ* **is low** due to historical disturbance.
- Bora/Ceremonial sites and burial of ancestral remains are highly susceptible to impacts associated with past land use, levels of existing native vegetation and past major flooding events of the relevant major watercourses and tributaries. Existing ground disturbance across the Proposed Development Corridor is likely to have significantly reduced the potential for such sites to be retained.

6.0 Archaeological Survey

6.1 Methodology

The survey units were defined and named with reference to Requirement 5c of the Code of Practice, including recording start and finish points and/or boundaries for all survey units using a hand-held GPS receiver (set to allow recording of data with datum MGA94) and topographic mapping (where relevant), and track logs were recorded for all transects.

Site recording was completed in accordance with the Code of Practice. Site locations and their details were recorded with digital tablets using site recording forms. The digital tablets had a location accuracy of up to ±3 m.

6.1.1 Recording Survey Coverage

In accordance with the Code of Practice, the survey coverage description includes landform unit, the total area surveyed within the landform unit and the quantification of the level of ground surface visibility and exposure.

Ground surface visibility is defined as “the amount of bare ground (or visibility) on the exposures which might reveal artefacts or other archaeological materials” (DECCW 2010b:13). Exposure is defined as “the percentage of land for which erosion and exposure was sufficient to reveal archaeological material on the surface of the ground” (DECCW 2010b:13). As such, exposure refers to the potential for an area to reveal subsurface artefacts or deposits rather than the mere observation of the amount of bare ground.

The calculation of effective survey coverage is undertaken to designate the proportion of the assessment area in which it is possible to accurately assess the presence or absence of archaeological material. Survey coverage is calculated by multiplying the survey unit area by the percentage of ground surface visibility and exposure within the survey unit. The survey coverage is then expressed as a percentage for the whole survey unit.

6.1.2 Survey Limitations

Archaeological surveys are inherently limited by ground surface visibility conditions and therefore any survey, despite the intensity of survey effort and spacing of survey transects, is considered to only sample the archaeological landscape. The archaeological survey was targeted based on desktop analysis and focused on areas of suspected archaeological potential within the Proposed Development Corridor.

6.2 Survey Results

6.2.1 October 2024 Survey

Umwelt conducted an archaeological field survey focusing on the PRU component of the broader Proposed Development Corridor. Surveys were conducted in collaboration with RAP field representatives (refer to **Table 3.4** for Aboriginal party survey participants) over a total of three days from 22 to 24 October 2024. These portions of the Proposed Development Corridor were identified as areas warranting further archaeological investigative survey due to either being identified as containing archaeologically sensitive landforms (that may contain areas of PAD and/or other Aboriginal site types) and/or contain/are near previously registered Aboriginal sites.

Desktop assessment identified thirteen (13) Aboriginal sites within the Proposed Development Corridor - PRU or within 50 m of it.

- Snake Creek (AHIMS ID #28-6-0070). Potential Archaeological Deposit (PAD).
- Coolaburragundy River 4 (AHIMS ID #28-6-0071). Potential Archaeological Deposit (PAD).
- Coolaburragundy River 3 (AHIMS ID #28-6-0072). Potential Archaeological Deposit (PAD).
- Junction Creek (AHIMS ID #28-6-0066). Potential Archaeological Deposit (PAD).
- Turee Creek 2 (AHIMS ID #28-6-0067). Potential Archaeological Deposit (PAD).
- Turee Creek 1 (AHIMS ID #28-6-0068). Potential Archaeological Deposit (PAD).
- Collieblue (AHIMS ID #28-6-0022). Culturally Modified Tree (discussed further in **Section 6.2.3**).
- LRWF ST 2 (AHIMS ID #28-6-0080). Modified Tree (discussed further in **Section 6.2.3**).
- Talbragar River 1 (AHIMS ID #36-2-0077). Potential Archaeological Deposit (PAD).
- Talbragar River 2 (AHIMS ID #36-2-0078). Potential Archaeological Deposit (PAD).
- Quindalup (AHIMS ID #28-6-0020). Potential Culturally Modified Tree (discussed further in Section **6.2.3**).
- Quindalup 2 (AHIMS ID #28-6-0021). Potential Culturally Modified Tree (discussed further in Section **6.2.3**).
- LRWF ST 3 (AHIMS ID #36-3-4173). Potential Culturally Modified Tree (discussed further in **Section 6.2.3**).

'Talbragar River 1' (AHIMS ID #36-2-0077) was inspected as an example of previously registered PADs that now have additional works occurring adjacent to their boundaries. It was concluded that that PAD associated with 'Talbragar River 1' (AHIMS ID #36-2-0077) extended into the Proposed Development Corridor – PRU. Following from this case study, all other previously registered PADs that overlapped or are immediately adjacent to the Proposed Development Corridor - PRU will have their boundaries extended to include the current Mod-3 Layout.

Five (5) new Aboriginal sites were identified during the October 2024 surveys, all areas of potential archaeological deposit (PAD):

- Coolaburragundy 5 (AHIMS #28-6-0091)
- Green Wattle Gully 1(AHIMS #28-6-0090)

- Starkey Creek 1 (AHIMS #28-6-0089)
- Talbragar River 5[3] (AHIMS #28-6-0092)
- Rotherwood Road 1 (AHIMS #28-6-0086).

The five (5) areas of PAD were assessed on the basis of their access to water resources, having a slope inclination conducive to camping/occupation activities, having intact topsoil (within which subsurface deposits may be located) and/or having ground surfaces that appeared to have not been substantially disturbed. Surface visibility across all survey units was low (5–20%) due to dense pasture/vegetation.

The results of the October 2024 surveys are presented in **Table 6.1**. Effective survey coverage is presented in **Table 6.2**.

6.2.2 December 2025 Survey

Umwelt conducted a targeted archaeological field survey within the Proposed Development Corridor with the assistance of RAP field representatives (refer to **Table 3.4** for Aboriginal party survey participants) over a period of three days between 2 and 4 December 2025. These portions of the Proposed Development Corridor, as updated for the Mod-3 Layout, were identified as areas warranting further archaeological investigative survey due to either being identified as containing archaeologically sensitive landforms (that may contain areas of PAD and/or other Aboriginal site types) and/or contained/were near previously identified Aboriginal sites.

Three (3) new areas of PAD were recorded:

- Coolah Creek Road 1 (AHIMS #28-6-0085)
- Starkey Creek 2 (AHIMS #28-6-0088)
- Bounty Creek 1 (AHIMS #28-6-0087).

These three (3) areas of PAD were assessed on the basis of their access to water resources, having a slope inclination conducive to camping/occupation activities, having intact topsoil (within which subsurface deposits may be located) and/or having ground surfaces that appeared to have not been substantially disturbed. Surface visibility across all survey units was low (5–20%) due to dense pasture/vegetation.

A quantitative summary of survey coverage results for the December 2025 survey program is presented in **Table 6.1**, while effective survey coverage results are presented in **Table 6.2**. A description of the December 2025 survey outcomes is provided in **Table 6.3**.

[3] Previously referred to as 'Talbragar River 3'. Later changed to avoid duplication with another site registered on the AHIMS database.

Table 6.1 Description of Survey Results (October 2024 and December 2025 programs)

Unit	Landforms	Survey Unit SU Length (m)	Survey Unit SU Area (approx.) (m^2)	Survey Unit Area (approx.) (ha)	Visibility (%)	Exposure (%)	Effective Coverage Area (%)	Sites	Archaeological Potential Rating	Disturbance Factors
1	Terrace	460	13,800	1.38	5	10	0.5	New Site: PAD 'Coolaburragundy 5' (AHIMS ID #28-6-0091)	Moderate subsurface potential	Alluvial processes, road and creek crossing construction, grazing.
2	Flat	4,630	218,000	21.8	20	20	4	Nil	Low	High impact from ploughing, rock picking, erosion and track creation
3	Flat	1,200	60,000	6	5	5	0.25	Nil	Low	High impact from road construction and maintenance, utilities, pastoral and cultivation activities
4	Flat	850	42,500	4.25	5	10	0.5	Nil	Low	Vegetation clearance, laydown area impacts, road verge
5	Hill slope	960	48,000	4.8	10	10	1	Nil	Low	Vegetation clearance, construction and maintenance, utilities, pastoral and cultivation activities
6	Flat	560	28,000	2.8	20	20	4	Nil	Low	Vegetation clearance, construction and maintenance, utilities, pastoral and cultivation activities.

Unit	Landforms	Survey Unit SU Length (m)	Survey Unit SU Area (approx.) (m^2)	Survey Unit Area (approx.) (ha)	Visibility (%)	Exposure (%)	Effective Coverage Area (%)	Sites	Archaeological Potential Rating	Disturbance Factors
7	Hill slope	440	22,000	2.2	5	5	0.25	Nil	Low	Alluvial processes, road and creek crossing construction, grazing.
8	Flat	1,910	95,500	9.55	5	5	0.25	New Site: PAD 'Green Wattle Gully 1' (AHIMS ID #28-6-0090)	Moderate subsurface potential	Alluvial processes, road and creek crossing construction, grazing.
9	Hill slope	220	11,000	1.1	5	5	0.25	Nil	Low	High impact from road construction and maintenance, erosion, pastoral and cultivation activities
10	Terrace	360	18,000	1.8	5	5	0.25	New Site: PAD 'Starkey Creek 1' (AHIMS ID #28-6-0089)	Moderate subsurface potential	Alluvial processes, road and creek crossing construction, grazing.
11	Flat	620	31,000	3.1	5	5	0.25	AHIMS ID # 36-2-0077 Talbragar River 1	Moderate subsurface potential	Alluvial processes, road and creek crossing construction, grazing.
12	Hill slope	450	22,500	2.25	10	10	1	Nil	Low	Road construction and maintenance, erosion, pastoral and cultivation activities
13	Terrace	250	12,500	1.25	20	20	4	New site: PAD 'Talbragar River 5' (AHIMS ID #28-6-0092)	Moderate subsurface potential	Alluvial processes, road and creek crossing construction, grazing.
14	Alluvial flat	770	38,500	3.85	5	5	0.25	Nil	Low	Alluvial processes

Unit	Landforms	Survey Unit SU Length (m)	Survey Unit SU Area (approx.) (m^2)	Survey Unit Area (approx.) (ha)	Visibility (%)	Exposure (%)	Effective Coverage Area (%)	Sites	Archaeological Potential Rating	Disturbance Factors
15	Flat	1,170	58,500	5.85	5	5	0.25	New site: PAD 'Rotherwood Road 1' (AHIMS ID #28-6-0086)	Moderate subsurface potential	Alluvial processes, road and creek crossing construction, grazing.
16	Crest	220	11,000	1.1	5	5	0.25	Nil	Low	Vegetation clearance, construction and maintenance, utilities, pastoral and cultivation activities.
17	Hill slope	830	41,500	4.15	5	5	0.25	AHIMS ID # 28-6-0020 Quindalup	Low	Vegetation clearance, construction and maintenance, utilities, pastoral and cultivation activities.
18	Crest	130	6,500	0.65	10	10	1	Nil	Low	Vegetation clearance, construction and maintenance, utilities, pastoral and cultivation activities.
19	Hill slope	470	23,500	2.35	15	10	1.5	Nil	Low	Vegetation clearance, pastoral activities.
20	Hill slope	1,130	56,500	5.65	15	25	3.75	Nil	Low	Vegetation clearance, logging activities.
21	Hill slope	NA Due to access restrictions and steep landform, the determination of level of archaeological sensitivity was made by survey team from the access track upslope of the proposed works.						Nil	Low	Vegetation clearance, pastoral activities.
22	Hill slope	610	30,500	3.05	10	10	1	Nil	Low	Vegetation clearance, pastoral activities.

Unit	Landforms	Survey Unit SU Length (m)	Survey Unit SU Area (approx.) (m^2)	Survey Unit Area (approx.) (ha)	Visibility (%)	Exposure (%)	Effective Coverage Area (%)	Sites	Archaeological Potential Rating	Disturbance Factors
23	Hill slope	2,850	142,500	14.25	15	10	1.5	Nil	Low	Vegetation clearance, pastoral activities.
24	Hill slope	225	11,250	1.125	15	10	1.5	Nil	Low	Vegetation clearance, pastoral activities.
25	Hill slope	2,230	111,500	11.15	15	15	2.25	New Site: PAD 'Coolah Creek Road 1' (AHIMS ID #28-6-0085)	Moderate	Vegetation clearance, pastoral activities.
26	Flat	635	31,750	3.175	15	10	1.5	Nil	Low	Vegetation clearance, pastoral activities.
27	Flat	430	21,500	2.15	15	15	2.25	New Site: PAD 'Starkey Creek 2' (AHIMS ID #28-6-0088)	Moderate	Vegetation clearance, pastoral activities.
28	Flat	NA Due to access restrictions and landform, the determination of level of archaeological sensitivity was made by survey team from the opposite site of Bounty Creek from the proposed works.						New Site: PAD 'Bounty Creek 1' (AHIMS ID #28-6-0087)	Moderate	Vegetation clearance, pastoral activities.
29	Flat	NA Survey Unit 11 inspected this portion in 2024. This was an opportunity for an on the ground discussion with the RAPs to extend the area of PAD to include the Proposed Development Corridor.						AHIMS ID # 36-2-0077 Talbragar River 1	Moderate	Alluvial processes, road and creek crossing construction, grazing.
30	Flat	NA Survey Unit 10 inspected this portion in 2024. This was an opportunity for an on the ground discussion with the RAPs to extend the area of PAD to include the Proposed Development Corridor.						New Site: PAD 'Starkey Creek 1' (AHIMS ID #28-6-0089)	Moderate	Alluvial processes, road and creek crossing construction, grazing.
31	Hill slope	NA Due to access restrictions and steep landform, the determination of level of archaeological sensitivity was made by survey team from the access track upslope of the proposed works.						Nil	Low	Vegetation clearance, pastoral activities.

Unit	Landforms	Survey Unit SU Length (m)	Survey Unit SU Area (approx.) (m^2)	Survey Unit Area (approx.) (ha)	Visibility (%)	Exposure (%)	Effective Coverage Area (%)	Sites	Archaeological Potential Rating	Disturbance Factors
32	Flat	215	10,750	1.075	15	15	2.25	Nil	Low	Vegetation clearance, pastoral activities.
33	Hill slope	1,225	61,250	6.125	5	5	0.25	Nil	Low	Vegetation clearance, pastoral activities.
34	Hill slope	NA Due to access restrictions and steep landform, the determination of level of archaeological sensitivity was made by survey team from the access track upslope of the proposed works.						Nil	Low	Vegetation clearance, pastoral activities.
35	Hill slope	265	13,250	1.325	15	15	2.25	Nil	Low	Vegetation clearance, pastoral activities.

Table 6.2 Effective Survey Coverage of October 2024 and December 2025 Surveys of Proposed Development Corridor

Landform	Surveyed Landform Area (m^2)	Surveyed Landform Area (ha)	Effective Coverage Area (%) by Landform	Effective Survey Coverage (m^2) by Landform
Alluvial flat	38,500	3.85	0.250	96.250
Crest	17,500	1.75	0.529	92.500
Flat	597,500	59.75	1.986	11,866.875
Hill slope (gentle/moderate)	595,250	59.525	1.501	8,933.750
Hill slope (steep)[4]	*0*	*0*	*0.000*	*0.000*
Terrace	44,300	4.43	1.386	614.000

[4] Steeply sloping landforms were determined by Umwelt archaeologists and RAPs present during surveys to have nil-low archaeological potential. Survey team efforts prioritised landforms of higher archaeological potential (e.g. gentle/moderate slopes, crests and ridgelines, etc).

Table 6.3 December 2025 Survey Results Summary

Survey Unit	Location	Purpose of Survey	Survey Results
1	Pandora Road, Coolah	Proposed Development Corridor overlaps with what appeared to be creek terraces adjacent to a fourth order water course and downstream of the confluence of 2 third order water courses.	Localised disturbance and topsoil movement from light vehicle movements. Deep, dark brown topsoil still evident in exposures suggesting intact soil profile and Potential Archaeological Deposit (PAD) ('Coolaburragundy 5') identified on northern side of fourth order water course.
2	Coolah Creek Road, Coolah	Unsealed road crosses a number of first and second order drainage lines and runs parallel to a third order water course.	Survey Results: Heavily impacted from vegetation clearance, cultivation, erosion and rock picking. Low archaeological potential.
3	Intersection of Vinegaroy Road and Coolah Creek Road.	Proposed Development Corridor is within 250 m of a fourth order watercourse and contains mature native vegetation.	High disturbance within road corridor, remnant topsoil within paddocks but moderate impacts from cultivation and grazing. Low archaeological potential.
4	375-375 Vinegaroy Road, Coolah	Remnant mature vegetation and previously identified Aboriginal sites in vicinity.	No culturally modified trees identified, majority of trees observed comprised juvenile regrowth forest.
5	Vinegaroy Road, Coolah	Modified tree AHIMS ID # 28-6-0022 (Collieblue) site co-ordinates had the site situated east of Vinegary Road, within the Proposed Development Corridor.	Inspection of the recorded location of the Aboriginal site confirmed there were no mature trees at the location. Survey of the vicinity confirmed the modified tree is actually located 65 m north-west of the location, on the west side of Vinegaroy Road at coordinates – 31.870768, 149.791948. This site was subject to further inspection which confirmed the modifications to the tree were not the result of cultural modification (refer to Section **6.2.3**).
6	Intersection of Vinegaroy Road and Turee Vale Road, Coolah	General vicinity of a third order waterway, some mature vegetation within Proposed Development Corridor.	Inspection of mature vegetation showed no evidence of cultural modification. Subterranean infrastructure including Telstra cabling along Vinegaroy Road, impacts from road construction and maintenance and cultivation activities/rock picking in surrounding paddocks has resulted in this portion of the Proposed Development Corridor having low archaeological potential.
7	Turee Creek, Turee Vale Road, Coolah	Proximity to creek confluence and fifth order watercourse. Mature vegetation.	Inspection confirmed shallow rocky soils at the base of steep knoll/hillock. Ground surface in portion of Proposed Development Corridor north of roadway was sloping moderately to the east. Mature vegetation was inspected and showed no cultural modification. Low archaeological potential.
8	Turee Vale Road, Coolah	Proposed Development Corridor crosses a fourth order watercourse and in proximity to other watercourses.	Small area of PAD ('Green Wattle Gully 1') identified on either side of a fourth order water course. No surface artefacts identified.
9	Intersection of Vinegaroy Road and Rotherwod Road, Coolah	Example of typical intersection upgrade.	Low potential hill slope with erosional and road construction/maintenance impacts.

Survey Unit	Location	Purpose of Survey	Survey Results
10	Starkey Creek crossing, Rotherwood Road, Coolah	Proposed Development Corridor crosses fourth order watercourse (Starkey Creek).	Confirmed area of PAD present either side of Starkey Creek ('Starkey Creek 1'). Particularly the higher terrace on the north-east side of the creek north of Rotherwood Road.
11	Martins Lane, Coolah	Reinspection of previously identified area of PAD (AHIMS ID# 36-2-0077 Talbragar River 1.	Confirmed that the PAD needs to be extended north and south of Proposed Development Corridor.
12	Intersection of Yarrawonga Road and Warung Road, Coolah	eason for Survey: Mature tree within Proposed Development Corridor.	No cultural modification on mature tree nor surface artefacts or any areas of PAD. Tree with vehicle impact damage identified as overlapping with Proposed Development Corridor boundary.
13	Talbragar River crossing on Warung Road, Coolah	Reason for Survey: Proposed Development Corridor crosses fourth order watercourse (Talbragar River).	Area of PAD ('Talbragar River 3') identified on west side of Warung Road, south side of Talbragar River. This area has a river terrace secured by the roots of a mature native tree.
14	Bounty Creek Road where it crosses Busby Creek and runs adjacent to Bountry Creek. Coolah	Proposed Development Corridor crosses fifth order watercourse (Busby Creek).	Area confirmed to be highly erosional river channels. Low archaeological potential.
15	Rotherwood Road, Coolah - 4.7km south of intersection of Rotherwood Road and Tangaratta Road.	Proposed Development Corridor crosses an unnamed second order tributary of Four Mile Creek and runs adjacent to fourth order Four Mile Creek.	Small area of PAD ('Rotherwood Road 1') identified west of Rotherwood Road either side of the second order tributary.
16	Vinegaroy Road, Coolah,	Previously identified mature tree with possible cultural modifications identified within the Proposed Development Corridor and registered on AHIMS (AHIMS # 36-3-4173, LRWF ST3)	Results: RAPs and archaeologist concluded that the scarring was likely not the result of cultural modification activities.
17	Vinegaroy Road, Coolah	Works in proximity to registered culturally modified tree (Quindalup, AHIMS #28 6 0020).	RAPs and archaeologist concluded that the likely cause of tre wounding was due to natural processes. This site was subject to further inspection which confirmed the modifications to the tree were likely to be the result of cultural modification (refer to Section **6.2.3**).

Survey Unit	Location	Purpose of Survey	Survey Results
18	Vinegaroy Road, Coolah	Works in proximity to registered culturally modified tree AHIMS # 28-6-0021 Quindalup 2	AHIMS site is located approximately 40 m south on the southern side of Vinegaroy Road and outside the Proposed Development Corridor. This site was subject to further inspection which confirmed the modifications to the tree were not the result of cultural modification (refer to Section **6.2.3**).
19	Pandora Road, Coolah	Works in proximity to registered site AHIMS #28-6-0069 Upland Basin.	Boundary of AHIMS site is located approximately 110 m east of the additional portion of the Proposed Development Corridor – Wind Farm. The portion of the Proposed Development Corridor surveyed was considered low archaeological sensitivity hillslope with no sites identified.
20	Pandora Road, Coolah	Works in proximity to registered site AHIMS #28-6-0054 LU10-L1 and within a stand of vegetation.	Aboriginal site is located approximately 470 m south of the Proposed Development Corridor – Wind Farm. The portion of the Proposed Development Corridor surveyed was considered low archaeological sensitivity hillslope with no sites identified.
21	Pandora Road, Coolah	Works in proximity to registered site AHIMS #28-6-0070 and of moderate size.	The portion of the Proposed Development Corridor – Wind Farm surveyed was considered low archaeological sensitivity extremely steep hillslope with no sites identified.
22	Pandora Road, Coolah	Works of moderate size.	The portion of the Proposed Development Corridor – Wind Farm surveyed was considered low archaeological sensitivity steep hillslope with no sites identified.
23	Gundare Road, Coolah	Works of moderate size	The portion of the Proposed Development Corridor – Wind Farm surveyed was considered low archaeological sensitivity hillslope, away from perennial water sources with no sites identified.
24	Gundare Road, Coolah	Works of moderate size	The portion of the Proposed Development Corridor – Wind Farm surveyed was considered low archaeological sensitivity hillslope, away from perennial water sources with no sites identified.
25	Coolah Creek Road, Coolah	Works of moderate size and within 200 m of the fifth order Coolaburragundy River and the fourth order tributary Glen Horn Creek	The northern portion of the Proposed Development Corridor – Wind Farm, where impacts are going to occur within 200 m of either Coolaburragundy River or Glen Horn Creek are considered of moderate archaeological. The remainder of the survey unit is considered low sensitivity hillslope, away from perennial water sources with no sites identified.
26	Turee Vale Road, Coolah	Works of moderate size	Survey confirmed that this portion of the Proposed Development Corridor – Wind Farm is considered low sensitivity hillslope, away from perennial water sources with no sites identified.
27	Turee Vale Road, Coolah	Works of moderate size and within 200 m of the fourth order tributary Starkeys Creek	This portion of the Proposed Development Corridor – Wind Farm, where impacts are going to occur within 200 m of Starkeys Creek are considered of moderate archaeological sensitivity. The remainder of the survey unit is considered low sensitivity hillslope, away from perennial water sources with no sites identified.
28	Bounty Creek Road, Coolah	Works of moderate size and within 200 m of the fifth order Bounty Creek	This portion of the Proposed Development Corridor – Wind Farm, where impacts are going to occur within 200m of Bounty Creek are considered of moderate archaeological sensitivity. The remainder of the survey unit is considered low sensitivity hillslope, away from perennial water sources with no sites identified.

Survey Unit	Location	Purpose of Survey	Survey Results
29	Martins Lane, Coolah	Works of moderate size	This portion of the Proposed Development Corridor – Wind Farm is considered low sensitivity flat, away from perennial water sources with no sites identified. Cultivation activities have impacted the soils profile and lead to increased erosion and potential topsoil displacement.
30	Martins Lane, Coolah	Works of moderate size and in immediate vicinity of AHIMS # 36-2-0077 Talbragar River 1	As was confirmed in the previous survey program for the PRU upgrades in 2024, this portion of Proposed Development Corridor, where impacts are going to occur within 200 m of Talbragar River is considered of moderate to high archaeological sensitivity.
31	Rotherwood Road, Coolah	Works of moderate size and in immediate vicinity of Starkey Creek 1	As was confirmed in the previous survey program for the PRU upgrades in 2024, this portion of Proposed Development Corridor, where impacts are going to occur within 200 m of Starkey Creek is considered of moderate to high archaeological sensitivity.
32 to 35	Rotherwood Road, Coolah,	Five areas of works of negligible size adjacent to Rotherwood Road. Used as test cases for minor extensions of the Proposed Development Corridor	These portions of the Proposed Development Corridor surveyed were considered low archaeological sensitivity landforms, away from perennial water sources with no sites identified.

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FIGURE 6.1

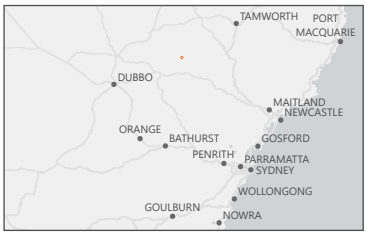
Location 1 - Survey Unit 1

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 3rd Order Stream
- 4th Order Stream



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Metres

Scale 1:5,000 at A4
GDA2020 MGA Zone 55

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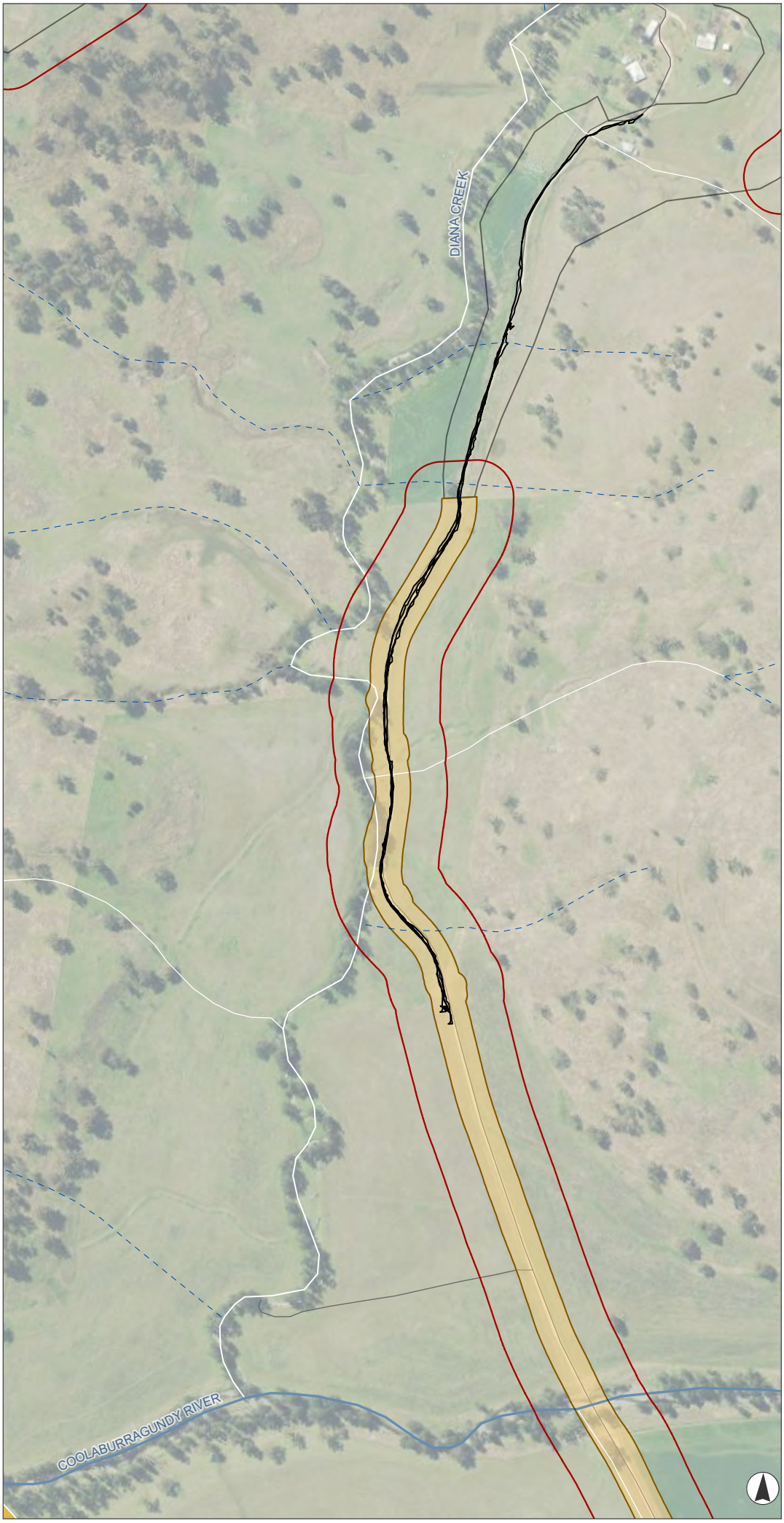


FIGURE 6.2

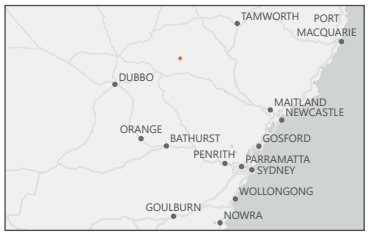
Location 2 - Survey Unit 2

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 3rd Order Stream
- 5th Order Stream



0 100 200 300

Metres

Scale 1:7,500 at A4
GDA2020 MGA Zone 55

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FIGURE 6.3

Location 3 - Survey Unit 3

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- PRU Development Corridor

Strahler Stream Order

- 1st Order Stream
- 4th Order Stream

0 70 100 200

Metres

Scale 1:5,000 at A4
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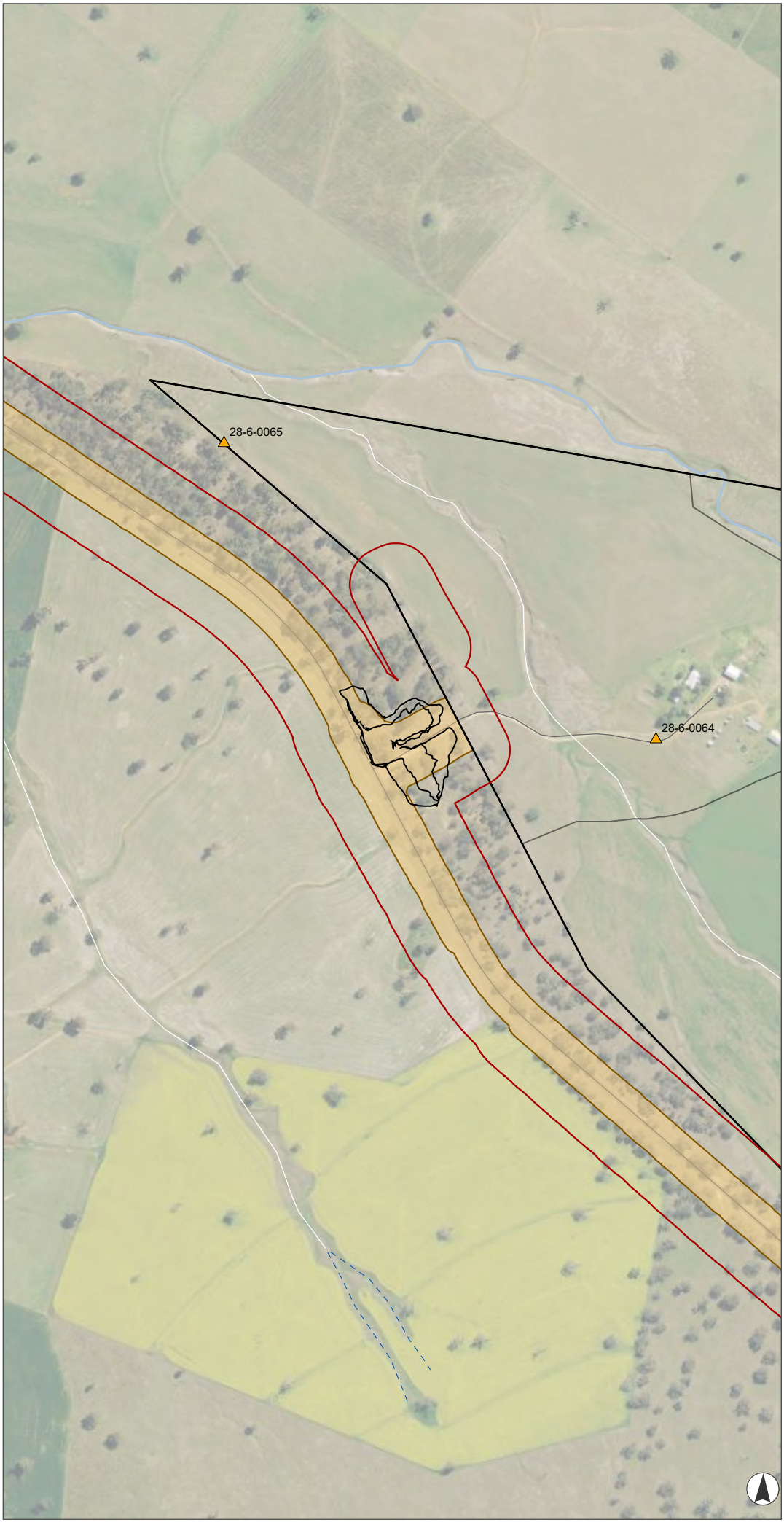

FIGURE 6.4

Location 4 - Survey Unit 4

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 4th Order Stream

AHIMS

- Open Artefact Site

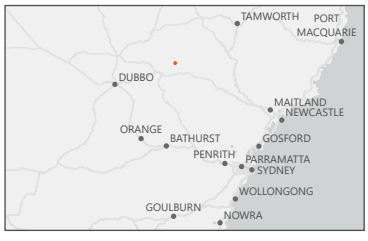

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FIGURE 6.5

Location 5 - Survey Unit 5

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- PRU Development Corridor

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 3rd Order Stream
- 4th Order Stream

AHIMS

- Culturally Modified Tree

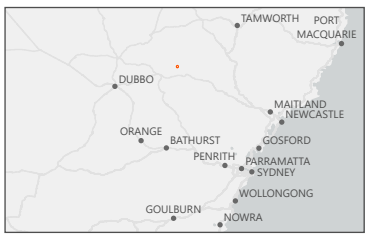

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FIGURE 6.6

Location 6 - Survey Unit 6

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- PRU Development Corridor

Strahler Stream Order

- 2nd Order Stream
- 3rd Order Stream
- 6th Order Stream

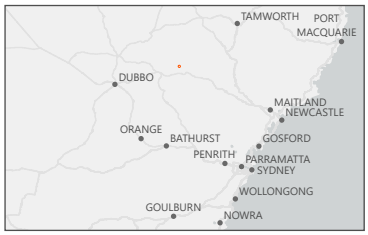

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FIGURE 6.7

Location 7 - Survey unit 7

Legend

- Roads
- Approved Site Boundary

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 3rd Order Stream
- 5th Order Stream

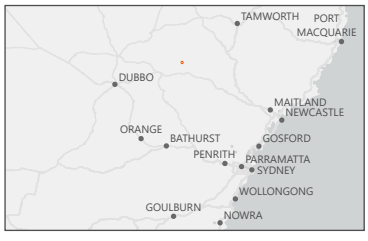

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FIGURE 6.8

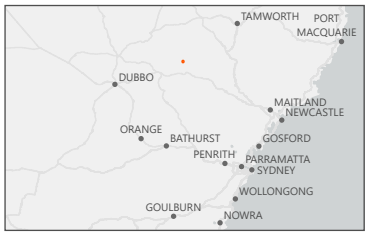
Location 8 - Survey Unit 8

Legend

- Roads
- Proposed Indicative Development Corridor
- Approved Site Boundary
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 3rd Order Stream
- 4th Order Stream
- 5th Order Stream



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Metres

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FIGURE 6.9

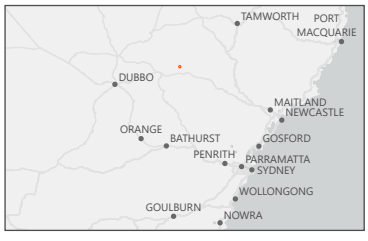
Location 9 - Survey Unit 9

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- PRU Development Corridor

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream



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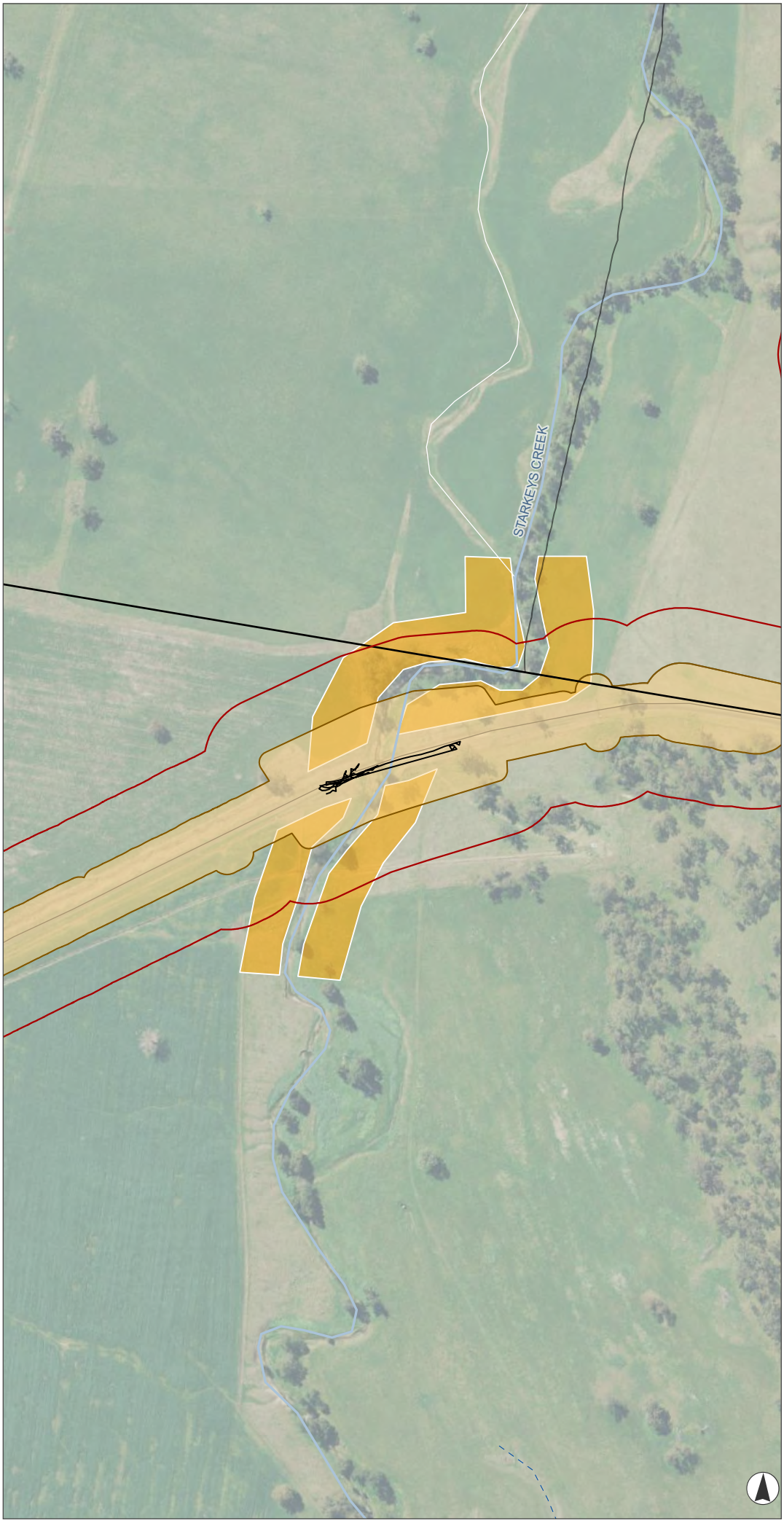

FIGURE 6.10

Location 10 - Survey Unit 10

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 4th Order Stream

0 70 100 200

Metres

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FIGURE 6.12

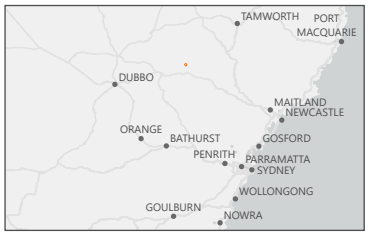
Location 12 - Survey Unit 12

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 4th Order Stream
- 5th Order Stream



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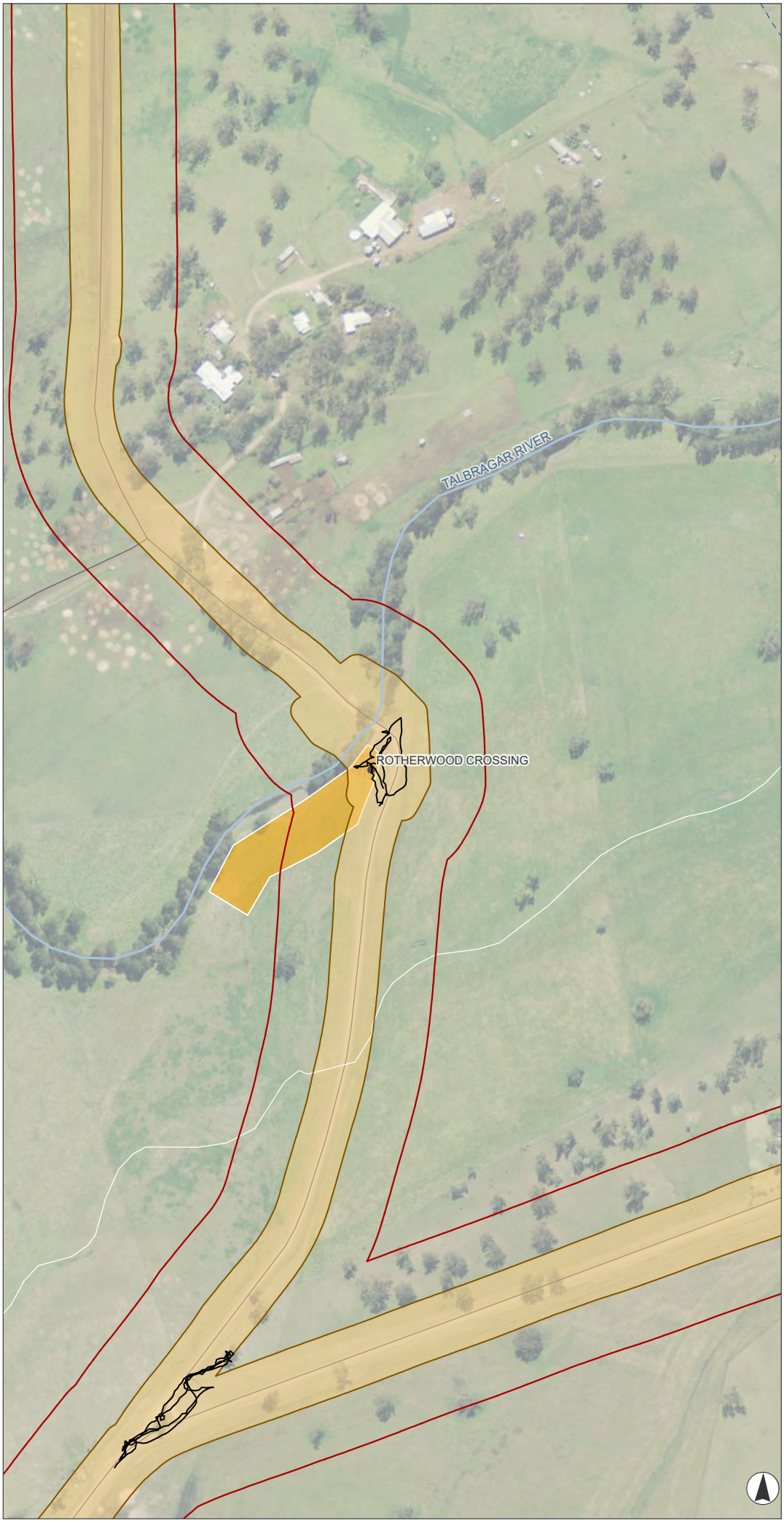

FIGURE 6.13

Location 13 - Survey Unit 13

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 4th Order Stream

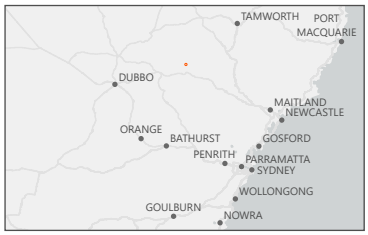

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FIGURE 6.14

Location 14 - Survey Unit 14

Legend

- Roads
- Approved Site Boundary

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 4th Order Stream
- 5th Order Stream

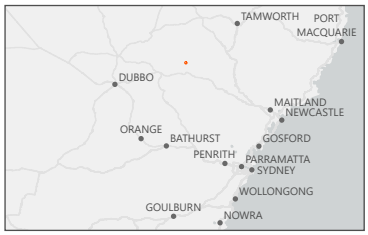

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FIGURE 6.15

Location 15 - Survey Unit 15

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 4th Order Stream

0 70 100 200

Metres

Scale 1:5,000 at A4
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FIGURE 6.16

Location 16 - Survey Unit 16

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- PRU Development Corridor

Strahler Stream Order

- 1st Order Stream

AHIMS

- Culturally Modified Tree

0 30 70 100

Metres

Scale 1:2,500 at A4
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FIGURE 6.17

Location 17 - Survey Unit 17

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- PRU Development Corridor

Strahler Stream Order

- 1st Order Stream

AHIMS

- Culturally Modified Tree

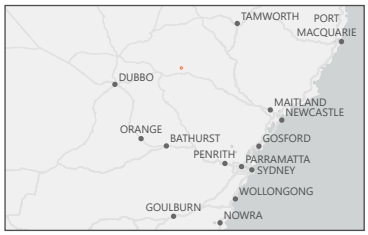

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FIGURE 6.18

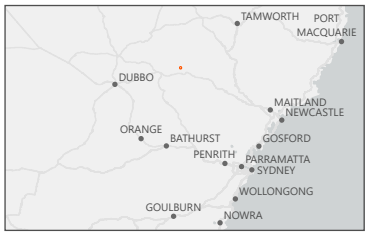
Location 18 - Survey Unit 18

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- PRU Development Corridor

Strahler Stream Order

- 1st Order Stream



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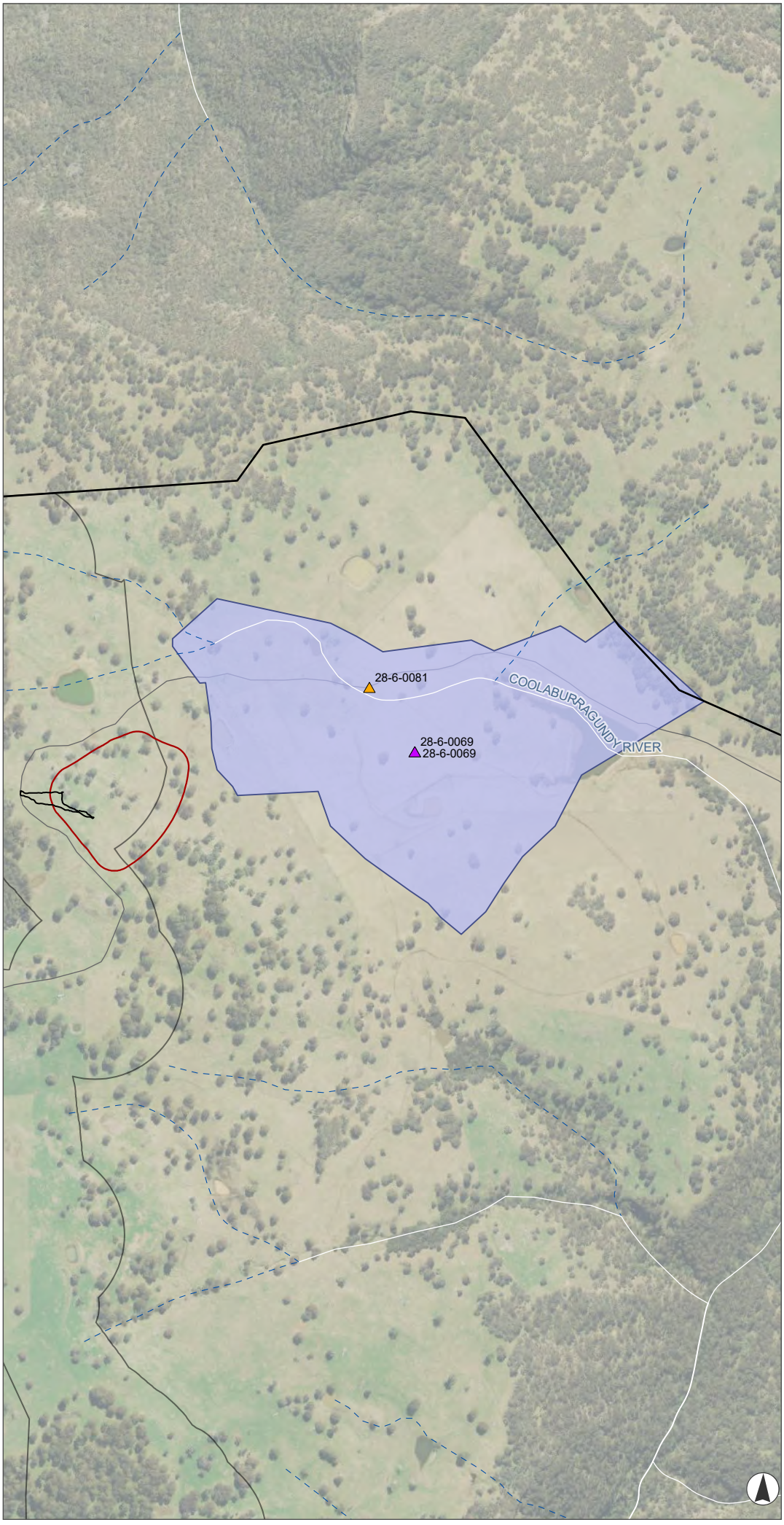


FIGURE 6.19

Location 19 - Survey Unit 19

Legend

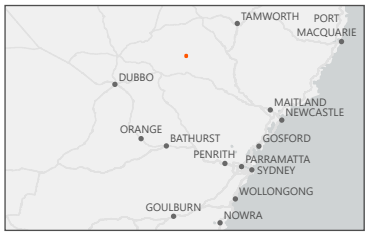
- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- Basin Extent

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 3rd Order Stream

AHIMS

- Open Artefact Site
- Potential Archaeological Deposit (PAD)



0 200 300 500

Metres

Scale 1:12,500 at A4
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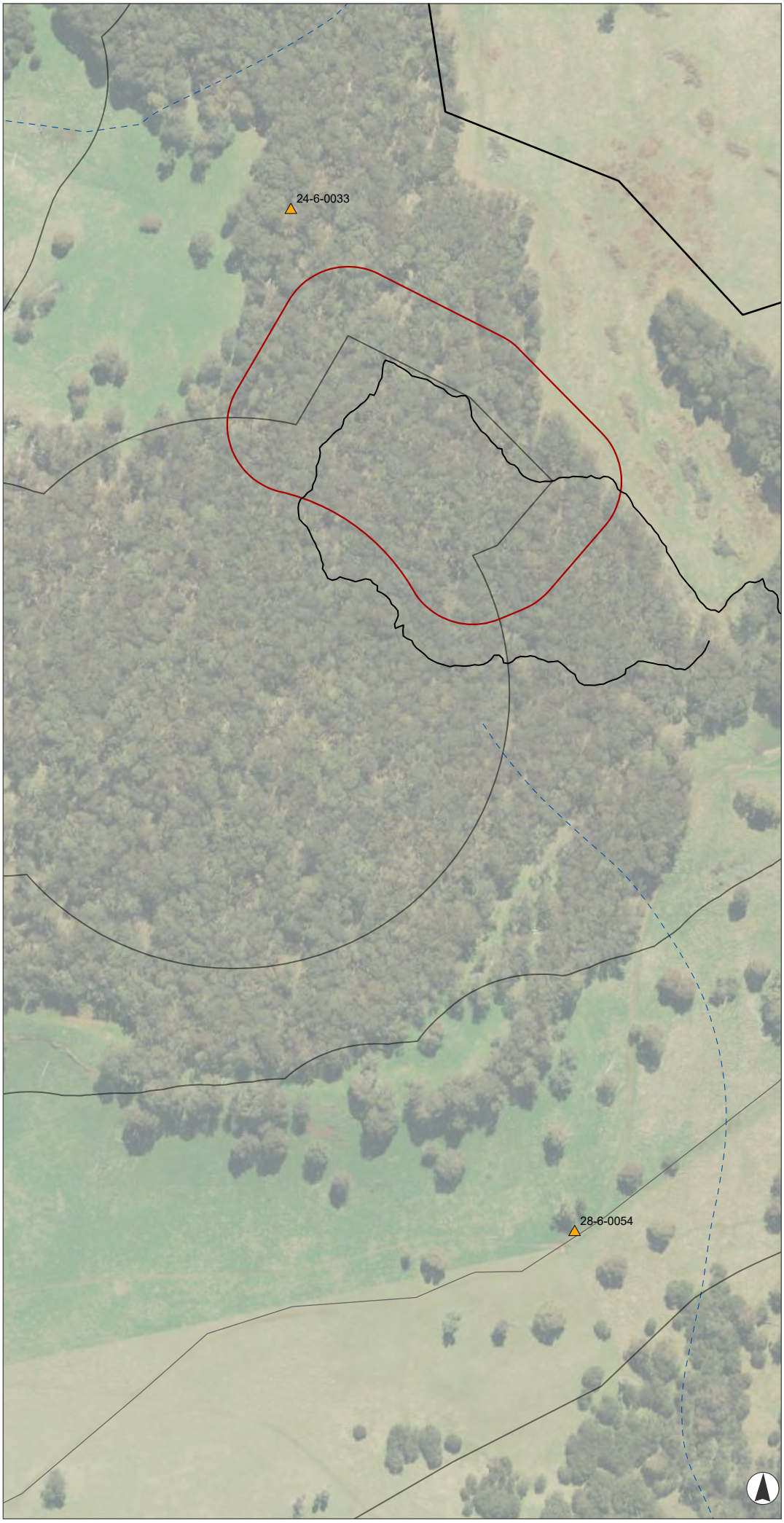

FIGURE 6.20

Location 20 - Survey Unit 20

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary

Strahler Stream Order

- 1st Order Stream

AHIMS

- Open Artefact Site

0 50 100 200

Metres

Scale 1:4,000 at A4
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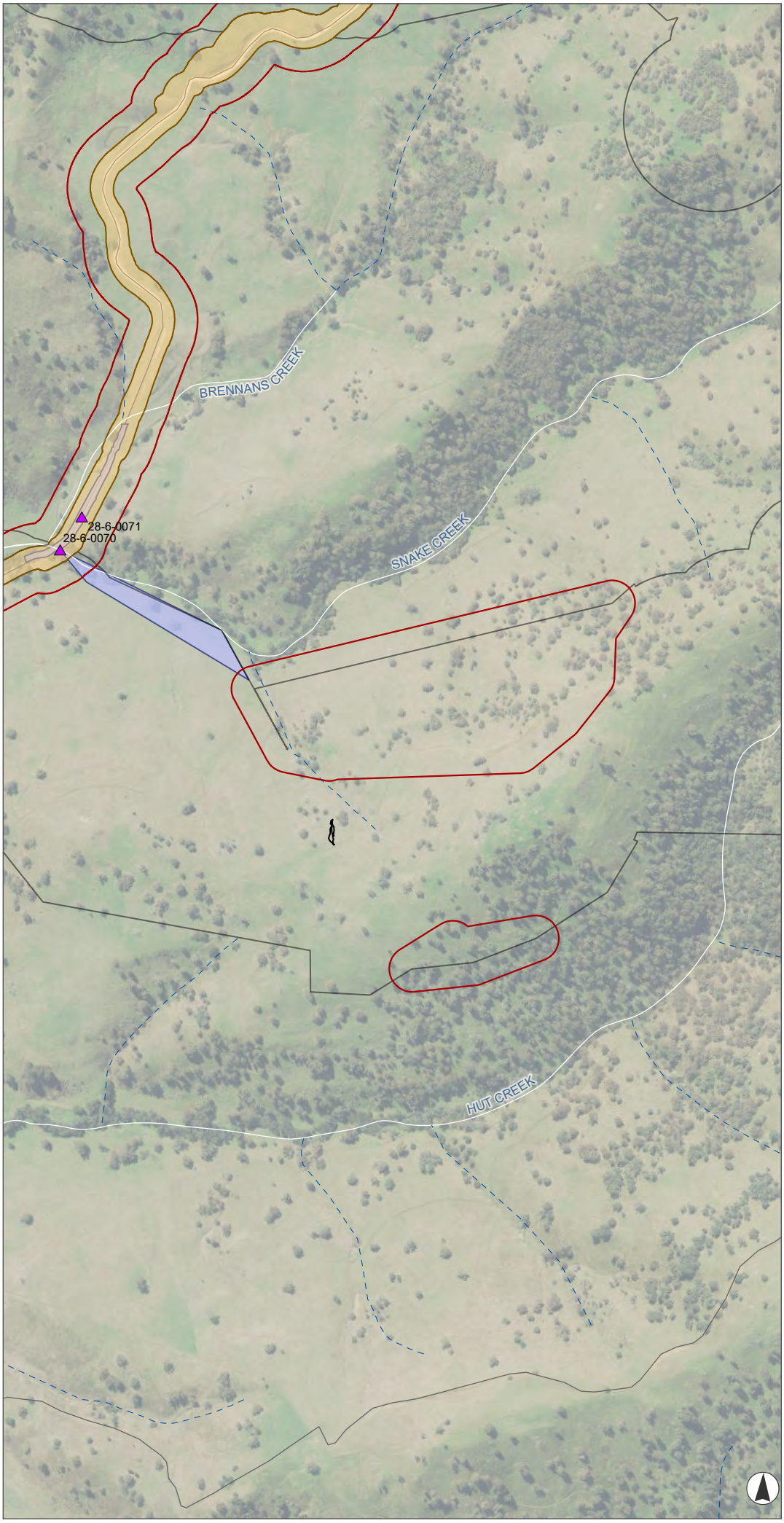

FIGURE 6.21

Location 21 - Survey Unit 21

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- Basin Extent

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 3rd Order Stream

AHIMS

- Potential Archaeological Deposit (PAD)

0 200 300 500

Metres

Scale 1:12,000 at A4
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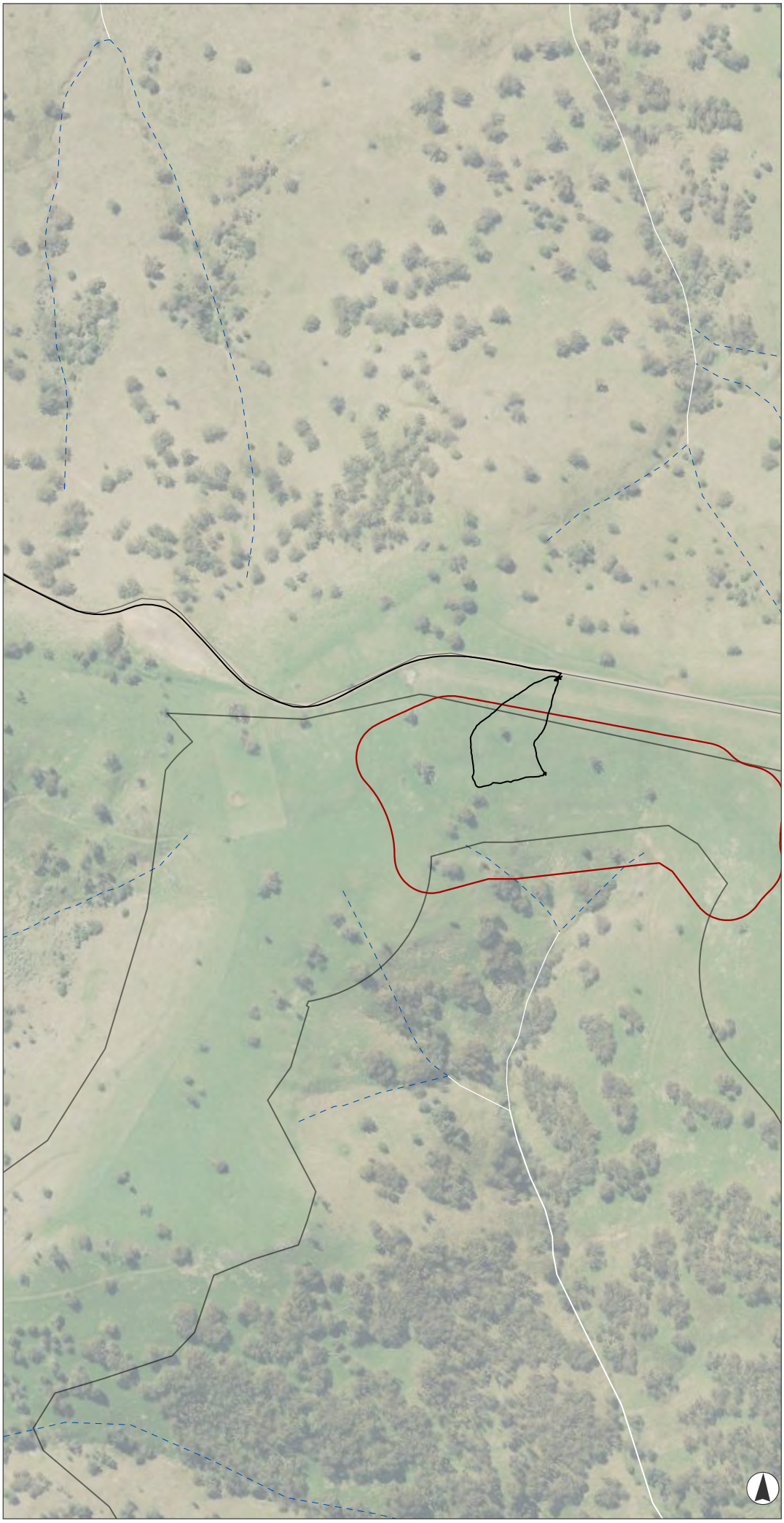


FIGURE 6.22

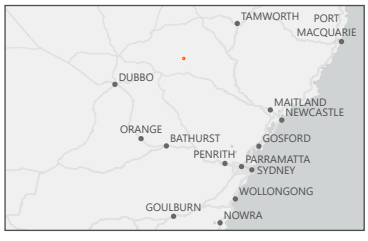
Location 22 - Survey Unit 22

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 3rd Order Stream



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Metres

Scale 1:7,500 at A4
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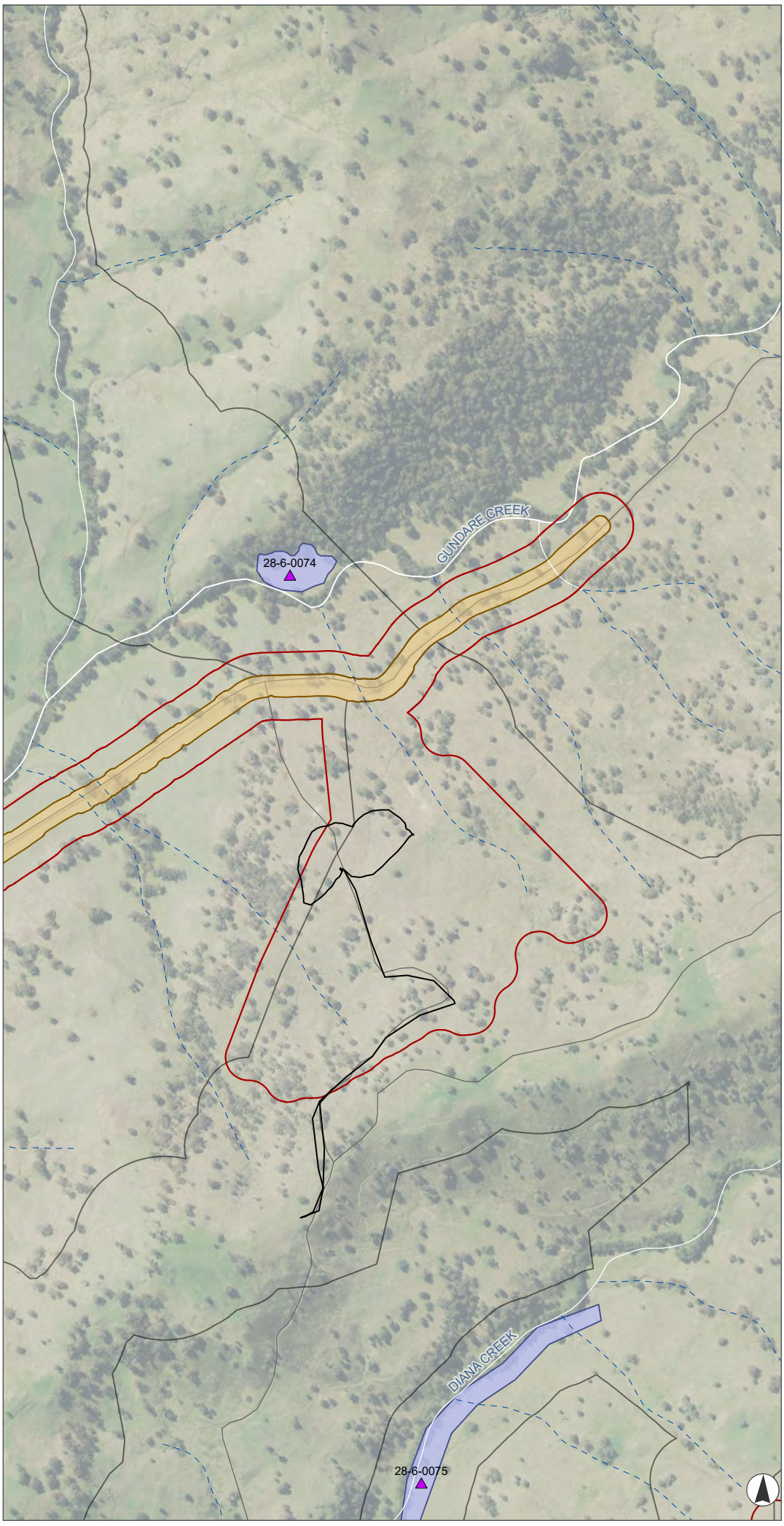


FIGURE 6.23

Location 23 - Survey Unit 23

Legend

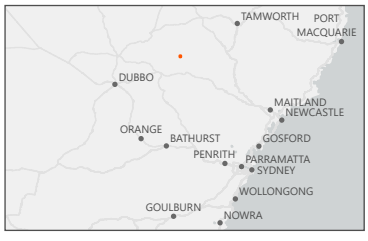
- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- Basin Extent

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 3rd Order Stream

AHIMS

- Potential Archaeological Deposit (PAD)



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Metres

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FIGURE 6.24

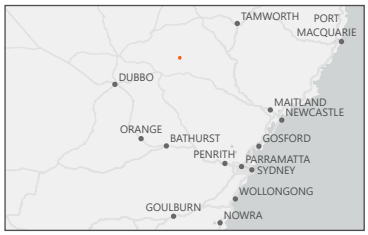
Location 24 - Survey Unit 23

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor

Strahler Stream Order

- 1st Order Stream
- 3rd Order Stream



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Metres

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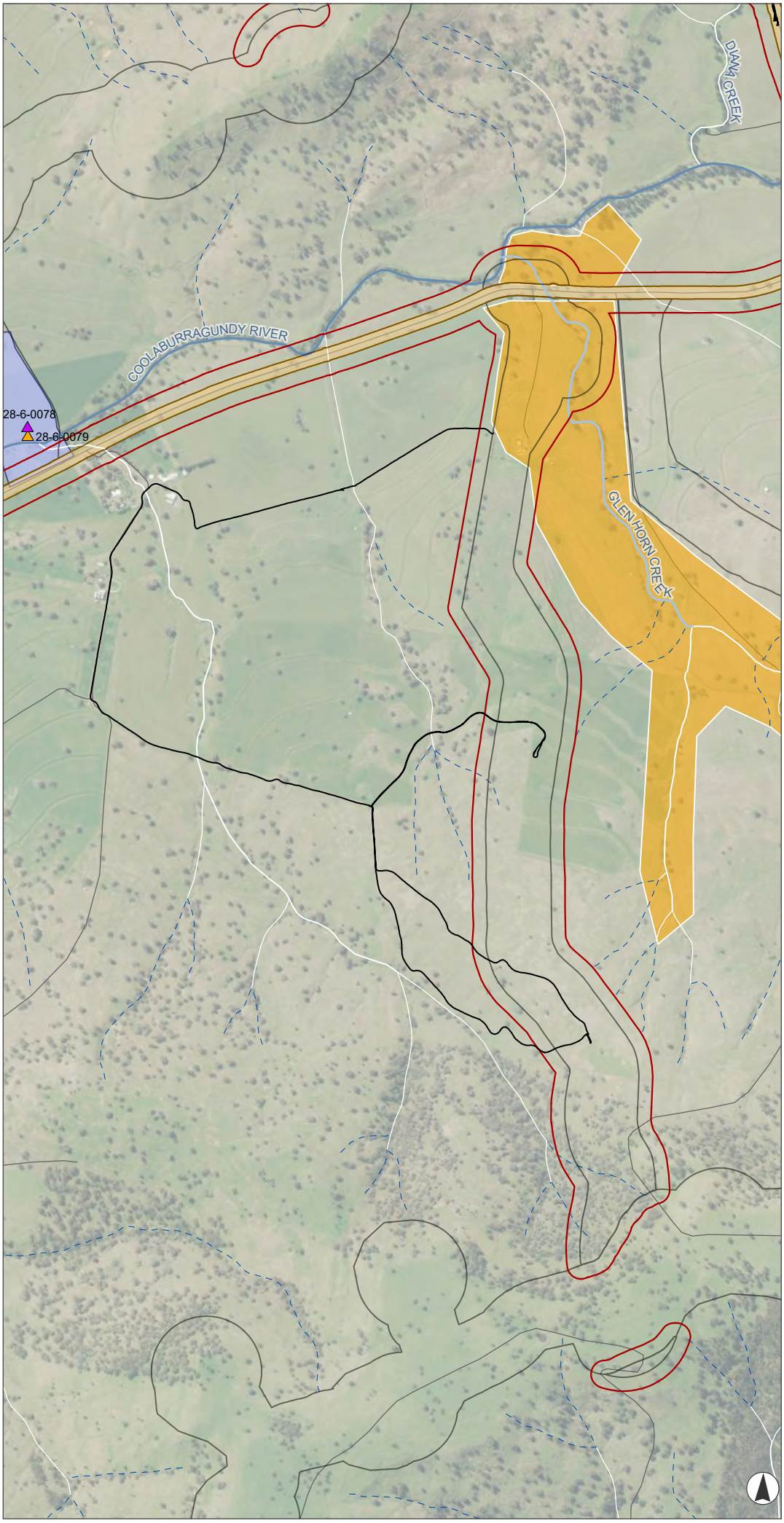

FIGURE 6.25

Location 25 - Survey Unit 25

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS
- Basin Extent

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 3rd Order Stream
- 4th Order Stream
- 5th Order Stream

AHIMS

- Open Artefact Site
- Potential Archaeological Deposit (PAD)

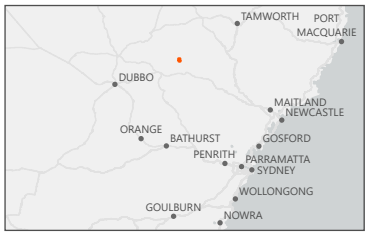

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FIGURE 6.26

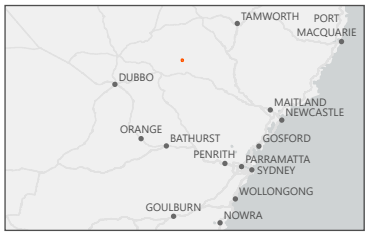
Location 26 - Survey Unit26

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream



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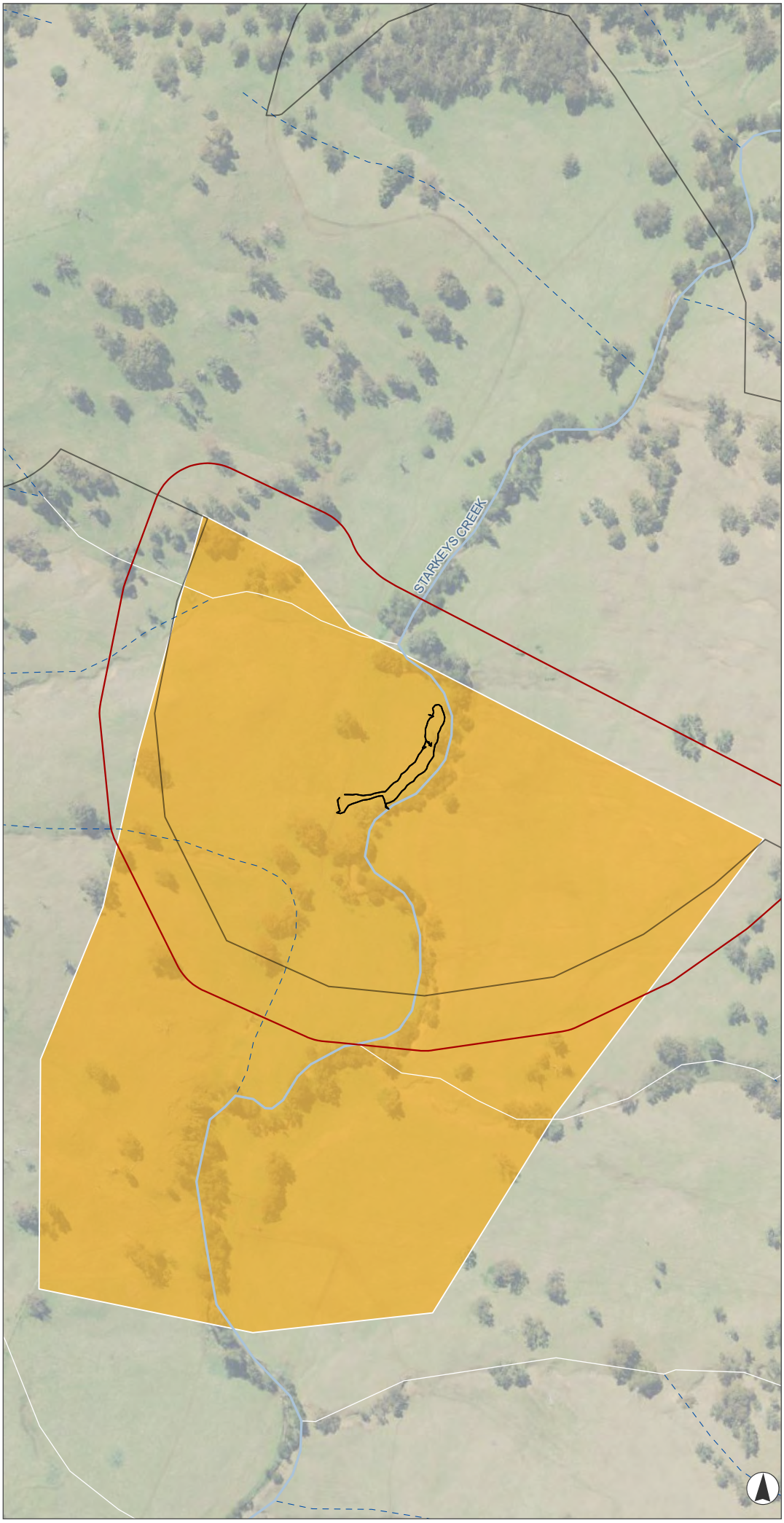


FIGURE 6.27

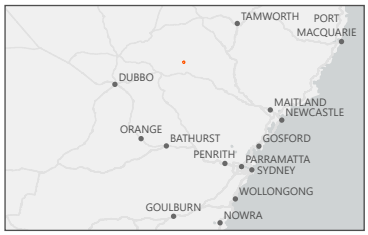
Location 27 - Survey Unit 27

Legend

- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 4th Order Stream



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Metres

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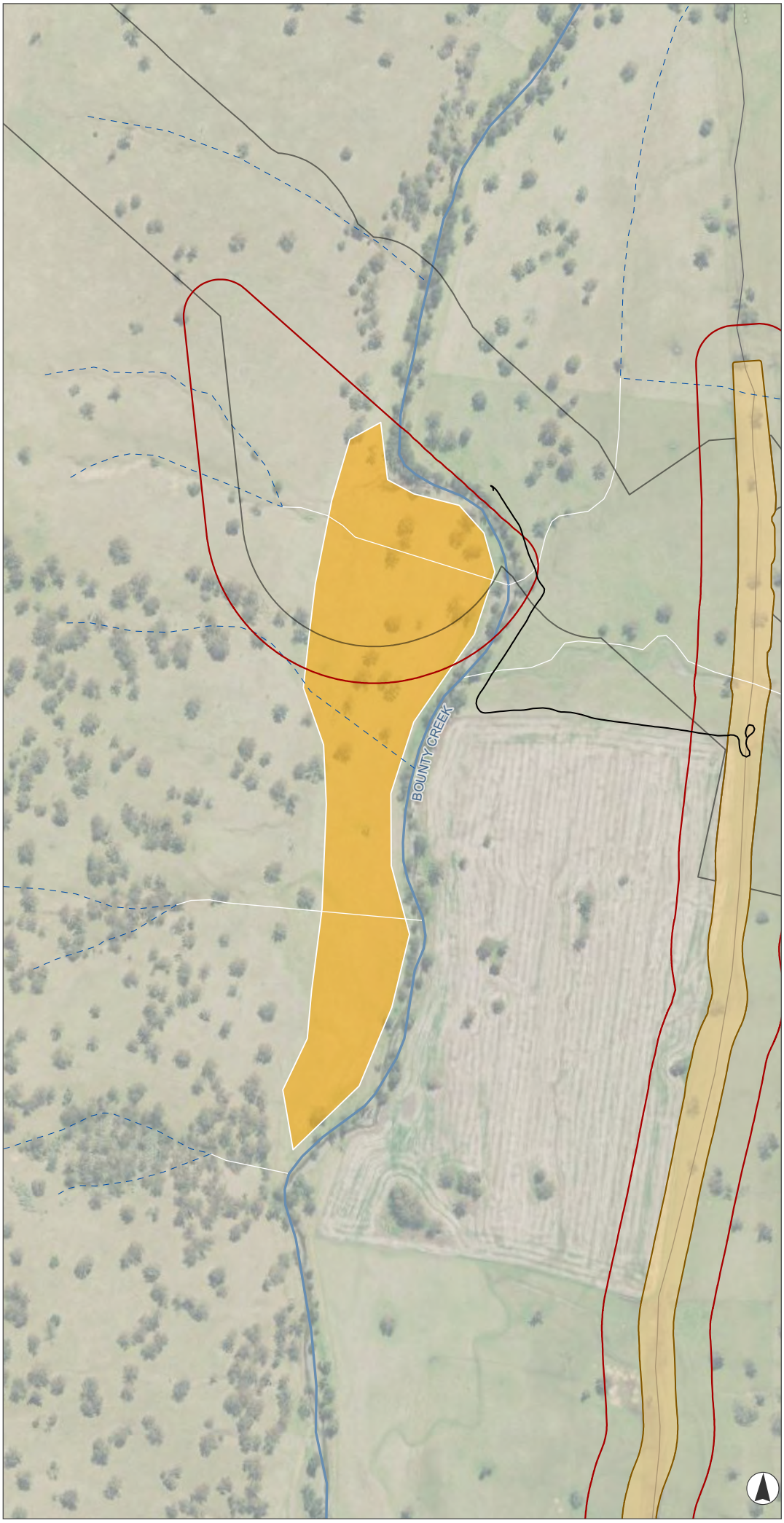

FIGURE 6.28

Location 28 - Survey Unit 28

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 5th Order Stream

0 100 200 300

Metres

Scale 1:7,500 at A4
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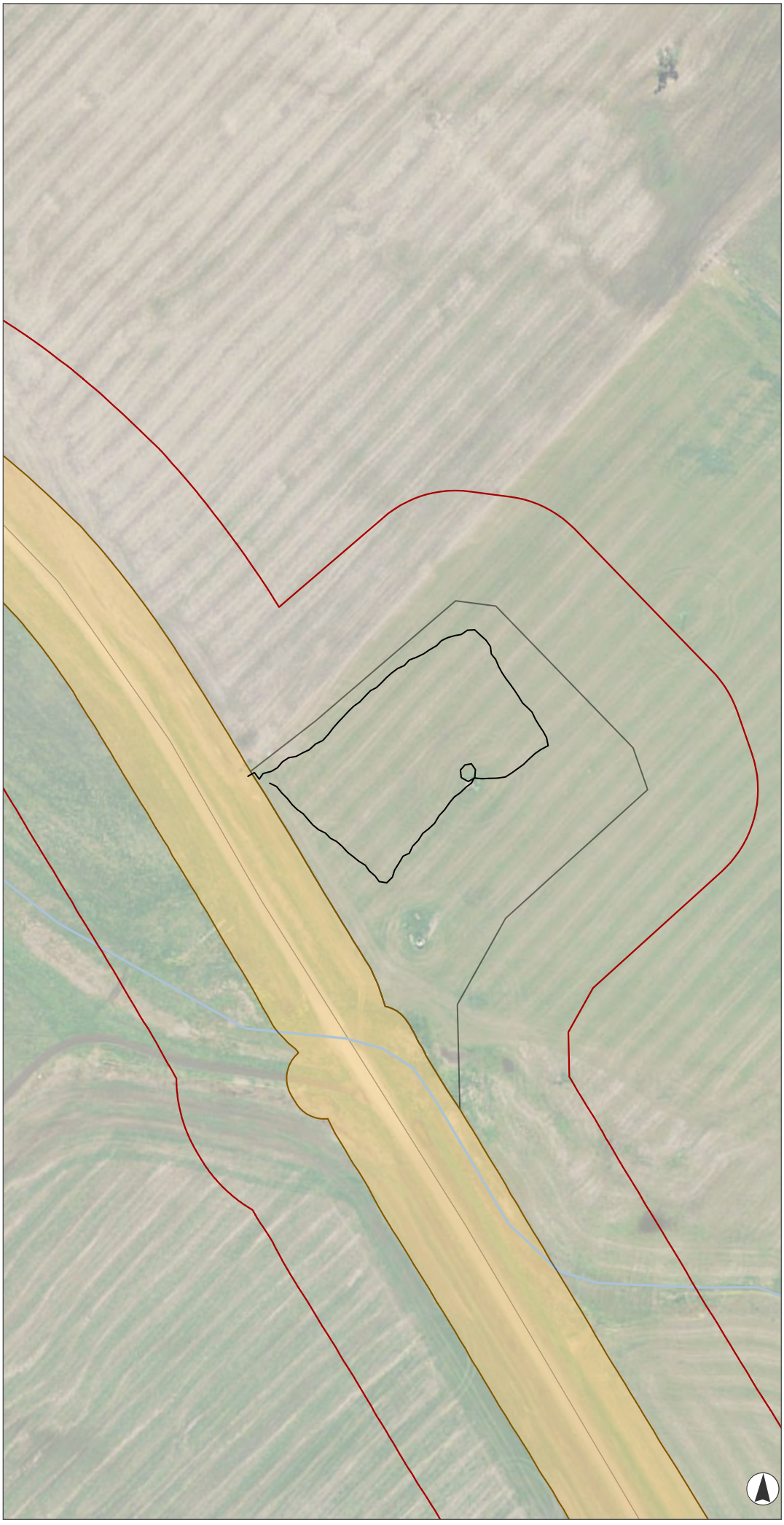


FIGURE 6.29

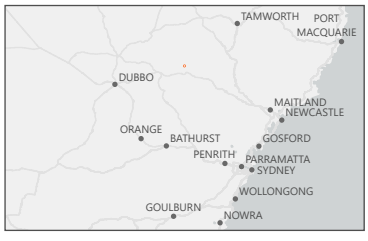
Location 29 - Survey Unit 29

Legend

- Roads
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor

Strahler Stream Order

- 4th Order Stream



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Metres

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FIGURE 6.31

New Aboriginal Site - Coolaburragundy 5 PAD

Legend

- Contours (5m)
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 3rd Order Stream
- 4th Order Stream

0 100 200

Metres

Scale 1:4,000 at A4
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FIGURE 6.32

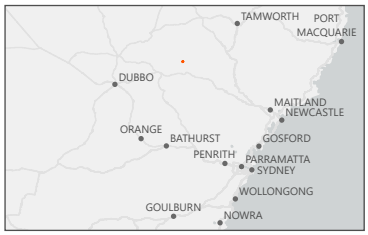
New Aboriginal Site - Green Wattle Gully 1 PAD

Legend

- Contours (5m)
- Proposed Indicative Development Corridor
- Approved Site Boundary
- New Aboriginal Sites - PADS

Strahler Stream Order

- 4th Order Stream
- 5th Order Stream or Higher



0 50 100

Metres

Scale 1:2,000 at A4
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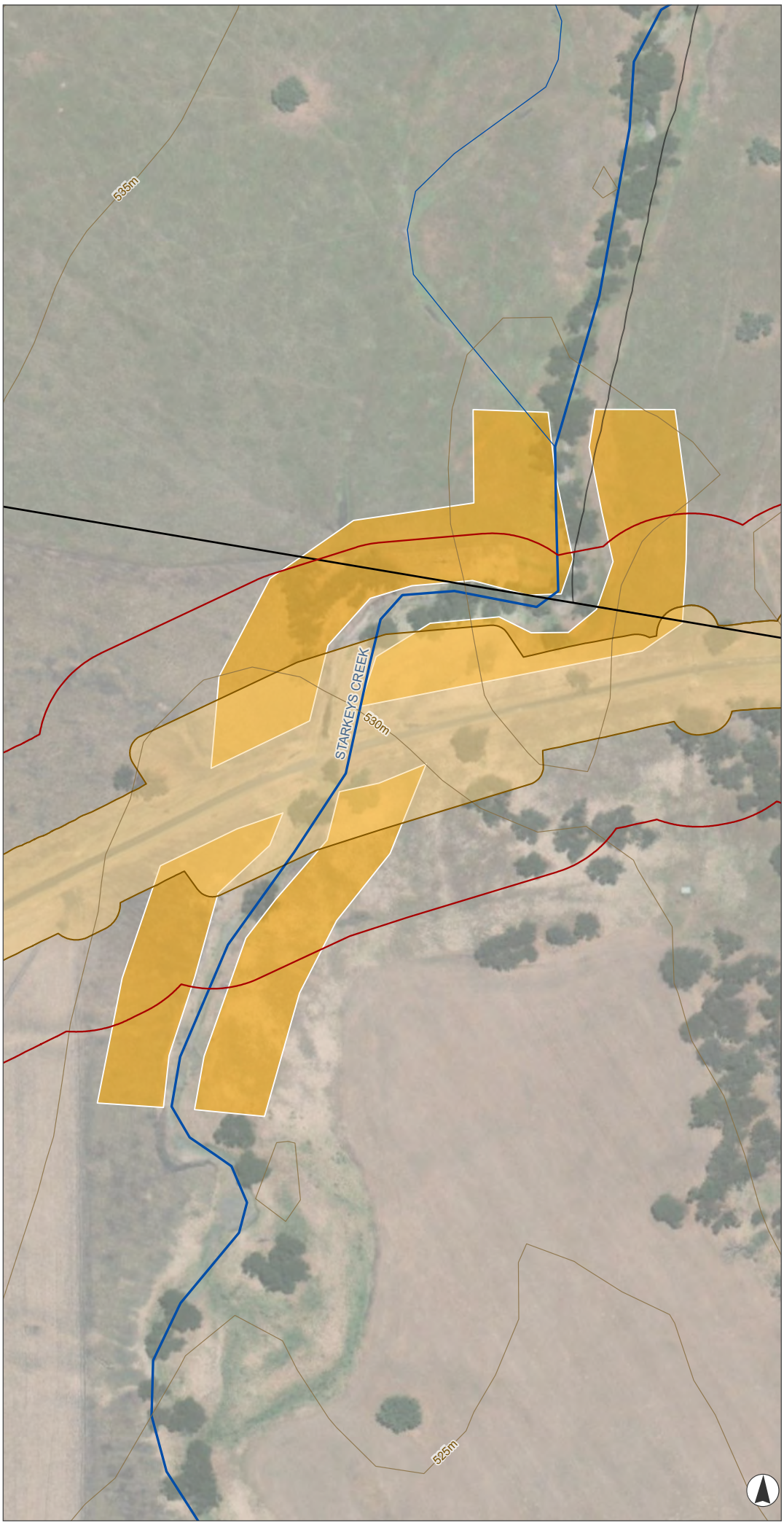


FIGURE 6.33

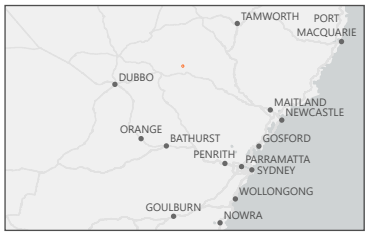
New Aboriginal Site - Starkey Creek 1 PAD

Legend

- Contours (5m)
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS

Strahler Stream Order

- 2nd Order Stream
- 4th Order Stream



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Metres

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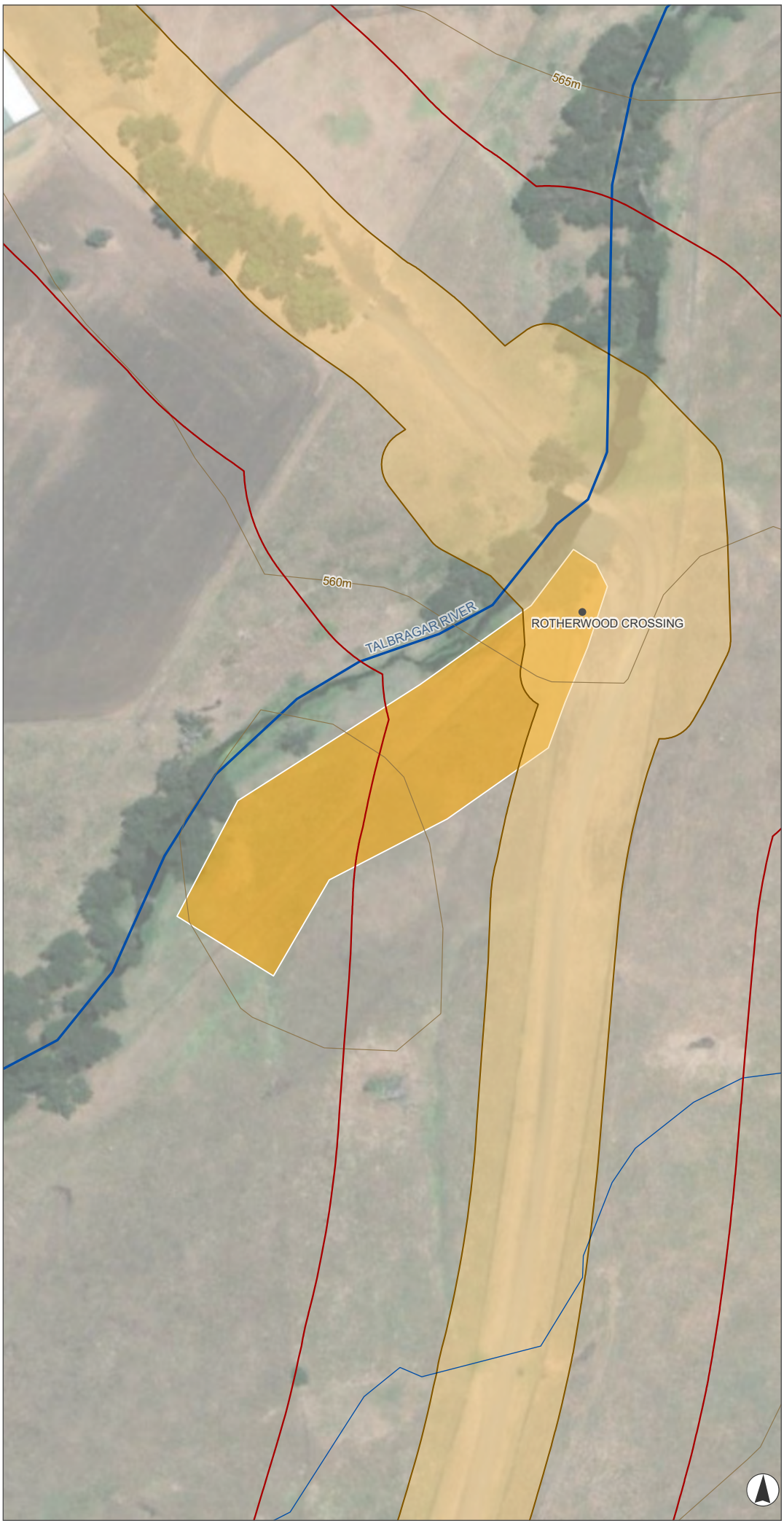


FIGURE 6.34

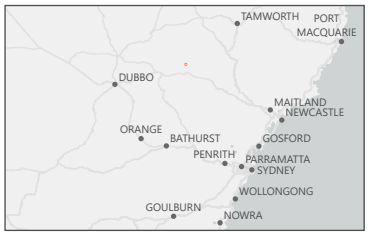
New Aboriginal Site - Talbragar River 5 PAD

Legend

- Contours (5m)
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS

Strahler Stream Order

- 2nd Order Stream
- 4th Order Stream



0 50 100

Metres

Scale 1:2,000 at A4
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FIGURE 6.35

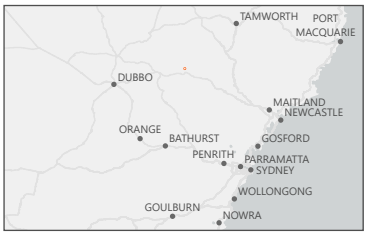
New Aboriginal Site - Rotherwood Road 1 PAD

Legend

- Contours (5m)
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS

Strahler Stream Order

- 2nd Order Stream



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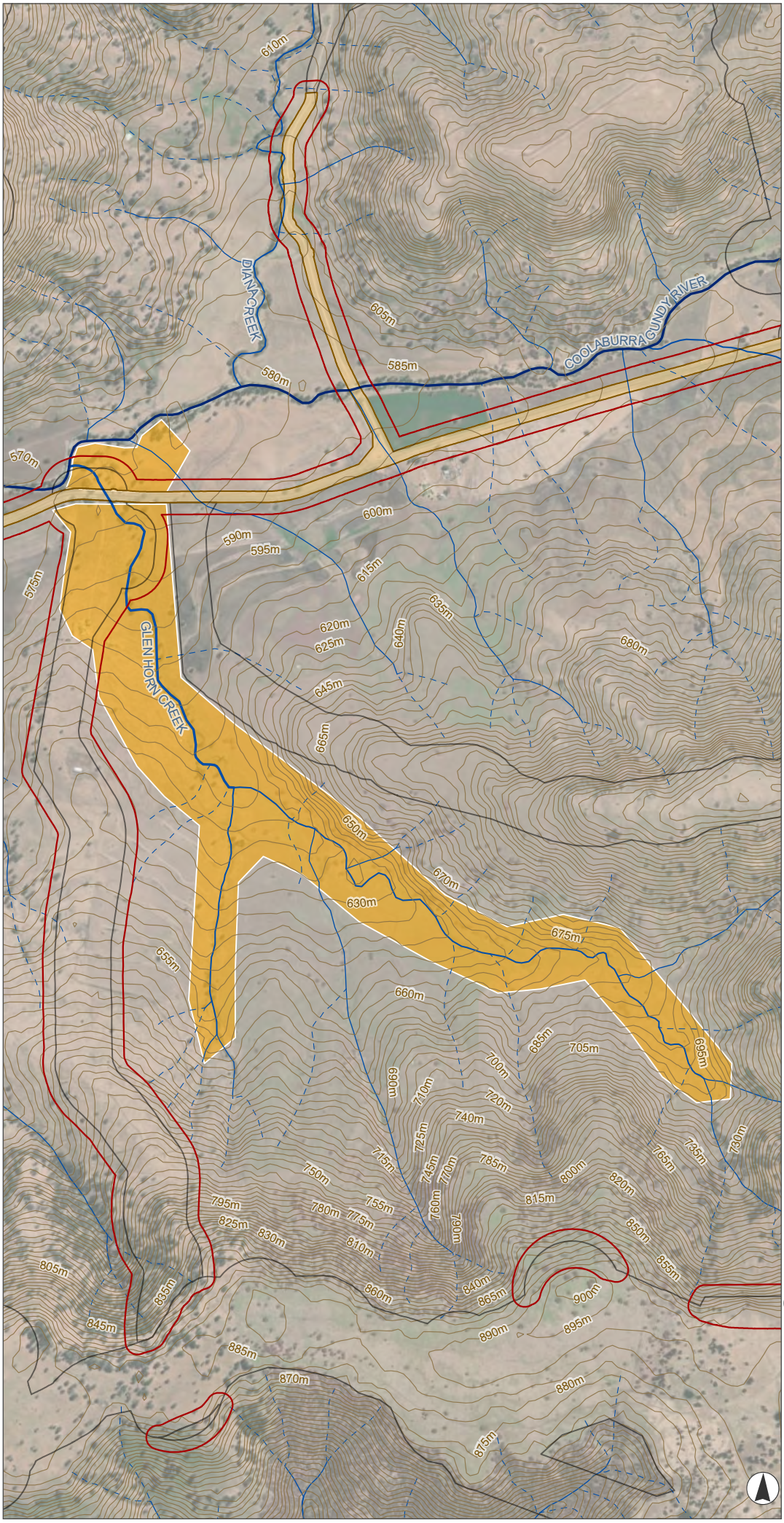

FIGURE 6.36

New Aboriginal Site - Coolah Creek Road 1 PAD

Legend

- Contours (5m)
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- PRU Development Corridor
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 3rd Order Stream
- 4th Order Stream
- 5th Order Stream or Higher

0 575 1,150

Metres

Scale 1:23,000 at A4
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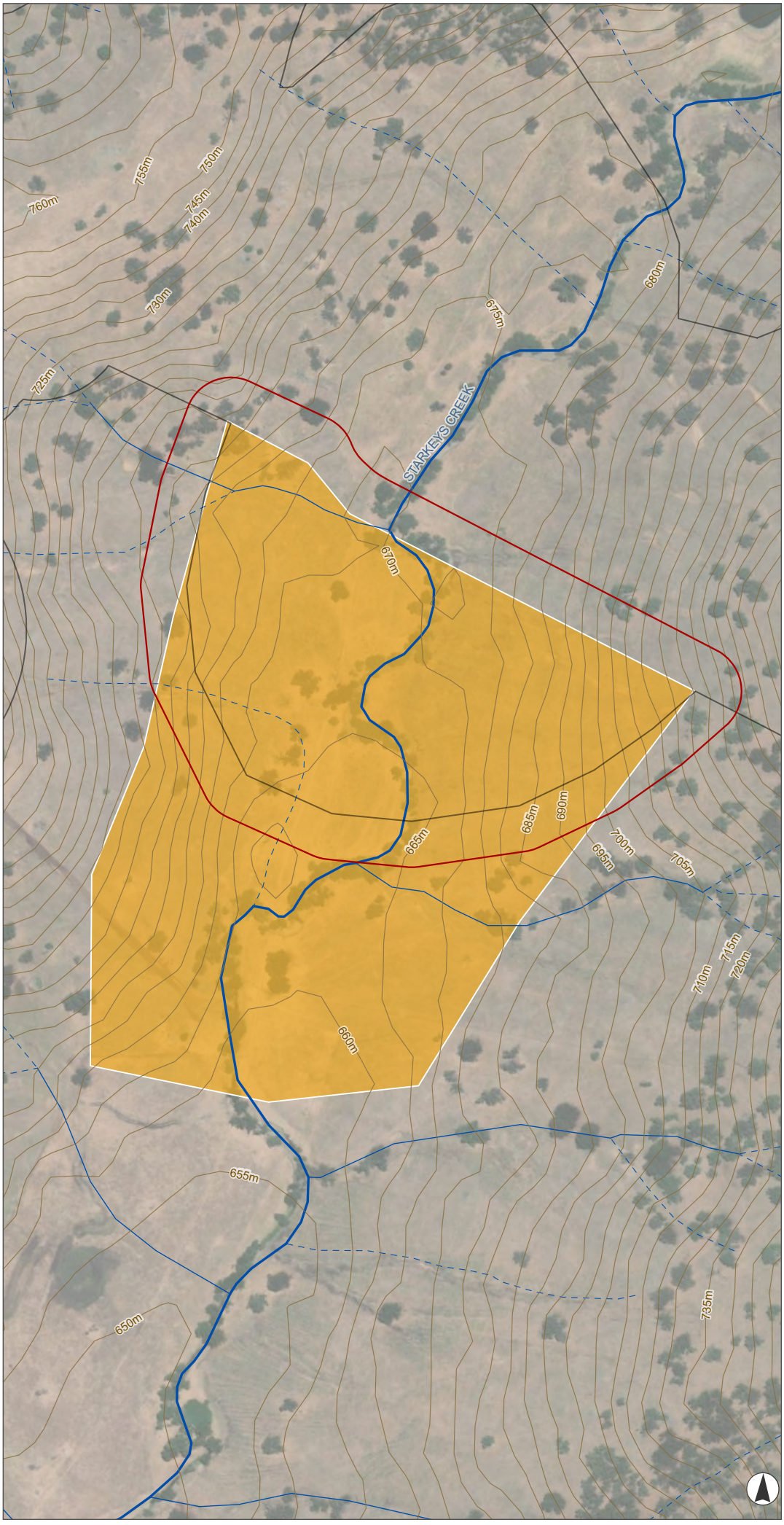
FIGURE 6.37

New Aboriginal Site - Starkey Creek 2 PAD



Legend

- Contours (5m)
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 4th Order Stream

0 150 300

Metres

Scale 1:6,000 at A4
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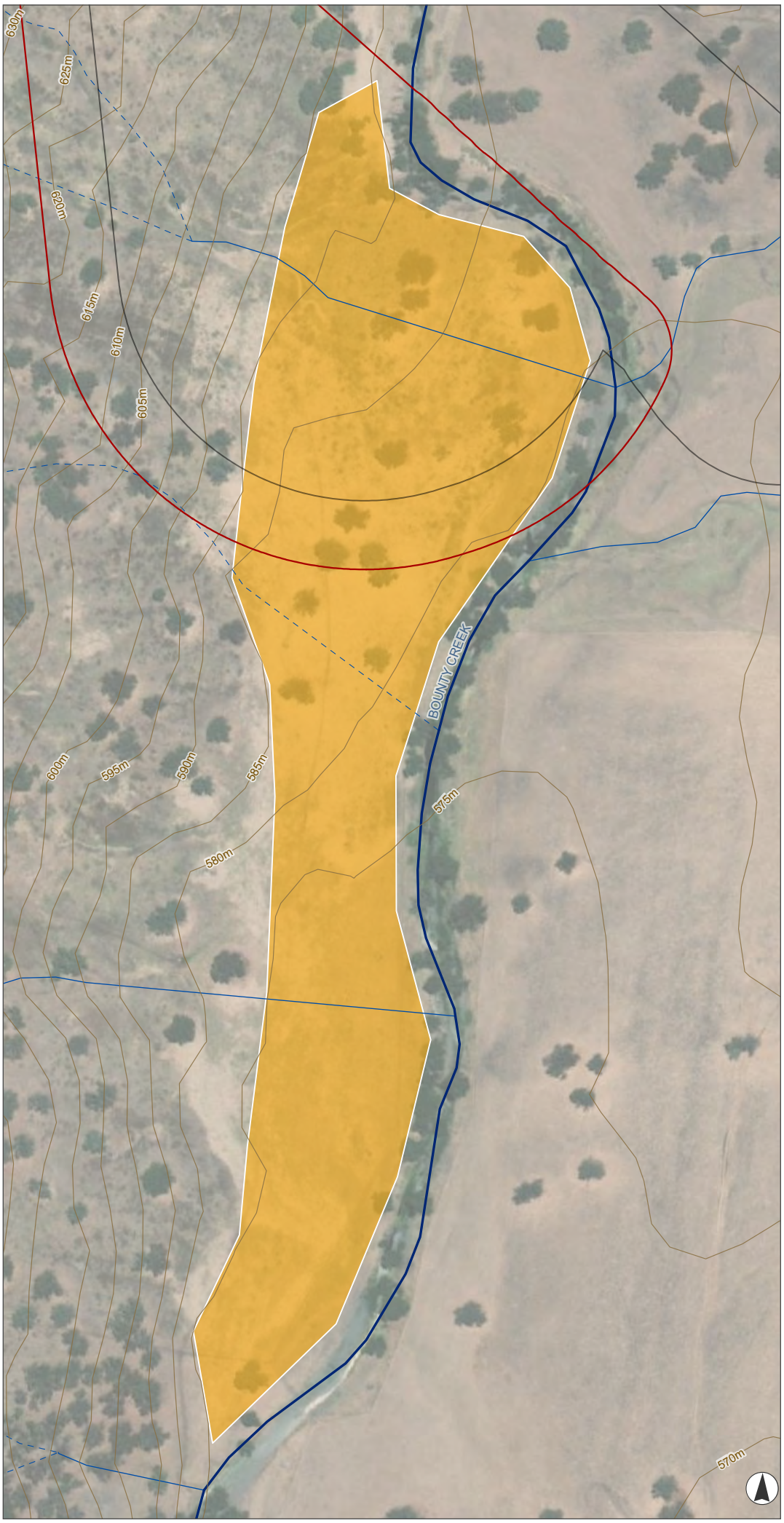


FIGURE 6.38

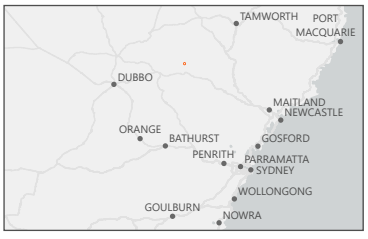
New Aboriginal Site - Bounty Creek 1 PAD

Legend

- Contours (5m)
- Proposed Indicative Development Corridor
- PRU Development Corridor and Approved Development Corridor Additions (50m buffer)
- Approved Site Boundary
- New Aboriginal Sites - PADS

Strahler Stream Order

- 1st Order Stream
- 2nd Order Stream
- 5th Order Stream or Higher



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6.2.3 June 2026 Inspection

In June 2026, Umwelt undertook a targeted field survey to reinspect five (5) trees exhibiting wounding that had previously been recorded as cultural modification. A specialist arboriculturist (Urban Tree Management Australia Pty Ltd) was engaged to inspect the trees and provide a condition assessment of each of the trees and options for long term management and/or avoidance solutions.

The results of the inspection concluded that wounding exhibited on three (3) recorded trees – 'LRWF ST 2' (AHIMS ID #28-6-0080), 'LRWF ST 3' (AHIMS ID #36-3-4173) and 'Collieblue' (AHIMS ID#28-6-0022) was not the result of cultural modification (i.e. intentional bark removal) and instead resulted from natural processes including multi-phase insect damage, limb fall/tear-out and or longicorn beetle boring attack, respectively. The tree recorded as 'Quindalup 2' (AHIMS ID # 28-6-0021) could not be located during the inspection. Reference to the description recorded on the AHIMS site card indicated that the site had been in the 1980s, comprising a deceased tree. Visual inspection of both the recorded location and surrounds suggested that the remains of the tree have since been removed.

These sites have been removed from the assessment.

Urban Tree Management Australia Pty Ltd confirmed that the site recorded as 'Quindalup' (AHIMS ID #28-6-0020) exhibited wounding characteristic of cultural modification and would require ongoing management.

7.0 Significance Assessment

The Burra Charter defines cultural significance in terms of aesthetic, scientific, historic and social values. Aboriginal cultural heritage is typically assessed according to its social and scientific significance; however other values may also be of importance. The assessment of cultural significance is critical in establishing mitigation and management strategies for cultural heritage (Pearson and Sullivan, 1995:21). The assessment of significance provides a guideline for determining appropriate mitigation and management strategies. The relationship between levels of significance and management strategies is summarised below:

- **High significance** – the site should be conserved and protected from the impacts of development, where possible.
- **Moderate significance** – the site should be protected if possible, however, if impacts to the site are unavoidable, appropriate mitigation strategies should be implemented prior to impact.
- **Low significance** – the site should be protected if possible, however, if impacts to the site are unavoidable, the presence of the site should not impede the proposed development.

7.1 Cultural Significance

Cultural significance relates to the values that Aboriginal peoples assign an object, site or place. In assessing this significance, a range of factors may be considered, and this can extend beyond the physical presence of a site and its contents to intangible aspects of the cultural landscapes. Archaeological materials, cultural knowledge, natural resources and landscape attributes may all be considered. RAP consultation identified the following social or cultural values within the Site Boundary and local environs in conversations with Umwelt personnel:

- RAPs highlighted the importance of the local environs to Aboriginal people.
- Culturally modified trees were identified as being particularly significant and should be protected.

7.2 Scientific (Archaeological) Significance

The scientific (or archaeological) significance of Aboriginal sites relates to their potential for providing information about past Aboriginal culture/s and is commonly assessed on the basis of *research potential, representativeness* and *rarity*. Other criteria, such as aesthetic value and education potential, may also be relevant. Specific scientific assessment of open artefact sites identified within the Site Boundary and local environs, in the first instance, can be determined through examination of site contents.

7.3 Research Potential

Research potential is defined as the potential of any archaeological site to address specific and defined research questions. Such questions may relate to aspects of human behaviours, occupation patterns and activities and/or environments. Several criteria can be used to assess the research potential of an archaeological site. Particularly pertinent in Aboriginal cultural heritage management is the state of preservation (i.e., integrity) of any site, the complexity of elements within it and its potential for archaeological deposit (NPWS, 1997, p.7).

Integrity refers to the state of preservation of an archaeological site, and/or the extent to which it has been impacted by natural and/or anthropogenic phenomena. The principle of archaeological integrity is founded on the concept that a more intact archaeological site will be able to provide more useful environmental land/or archaeological data, and consequently (albeit subjectively) will retain higher 'value'.

The **complexity** of an archaeological site refers to the nature of elements within it (e.g., the physical size of the site, spatial patterning in observed cultural materials). In the case of open artefact sites, for example, the principal criteria used to assess complexity are the site's size (i.e., number of artefacts and/or spatial extent), the presence, range and frequency of artefact and raw material types, and the presence of features such as hearths.

Potential for archaeological deposit refers to the potential of an archaeological site (or area of PAD) to contain subsurface archaeological evidence which, through systematic archaeological excavation, may assist in answering defined research questions.

Connectedness refers to the relationship between archaeological sites within its surrounding context and may be interpreted through site location, type and contents.

7.4 Rarity and Representativeness

Rarity refers to the relative scarcity of an archaeological site, both locally and regionally. The scientific significance of an archaeological site is assessed as being higher if it is unique or rare and conversely, may be considered to be lower in significance if it is common in one or both. The concept of representativeness, meanwhile, refers to the question of whether or not a site is "*a good example of its type, illustrating clearly the attributes of its significance*" (Burke & Smith, 2004).

7.5 Assessment of Archaeological Significance

The significance of newly identified Aboriginal sites was assessed in accordance with the criteria presented in **Table 7.1**. The results of the assessment are presented in **Table 7.2**.

Table 7.1 Criteria for Assessment of Significance

Criterion	Low	Moderate	High
Rarity	The site within the surrounding landscape, its integrity, contents and/or potential for subsurface artefacts, are common	The site within the surrounding landscape, its integrity, contents and/or potential for subsurface artefacts, are common	The site within the surrounding landscape, its integrity, contents and/or potential for subsurface artefacts, are

Criterion	Low	Moderate	High
	within the local and regional context.	within the regional context but not the local context.	rare within the local and regional context.
Representativeness	This site, when viewed in relation to its integrity, contents and/or potential for subsurface artefacts, is common within a local and regional context and sites of similar nature (or in better condition) are already set aside for conservation within the region.	This site, when viewed in relation to its integrity, contents and/or potential for sub-surface artefacts, is uncommon within a local context but common in a regional context and sites of similar nature (or in better condition) are already set aside for conservation within the region.	This site, when viewed in relation to its integrity, contents and/or potential for subsurface artefacts, is uncommon within a local and regional context and sites of similar nature (or in better condition) are not already set aside for conservation within the locality or region.
Research potential	The site, when viewed in relation to its integrity, contents and/or potential for subsurface artefacts has limited potential to contribute to a greater understanding of how Aboriginal people lived within this area or region.	The site, when viewed in relation to its integrity, contents and/or potential for subsurface artefacts has moderate potential to contribute to a greater understanding of how Aboriginal people lived within this area or region.	The site, when viewed in relation to its integrity, contents and/or potential for subsurface artefacts has high potential to contribute to a greater understanding of how Aboriginal people lived within this area or region.
Education potential	The site is not readily accessible and/or when viewed in relation to its contents, integrity and location in the landscape has limited suitability to be used for educational purposes. Other sites with higher education potential are known to be present in the local area and region.	The site is not readily accessible and/or when viewed in relation to its contents, integrity and location in the landscape provides a tangible example that is suitable to assist in educating people regarding how Aboriginal people lived in this area or region. However, other sites with higher education potential are known or expected to be present in the local area or region.	The site is readily accessible and/or when viewed in relation to its contents, integrity and location in the landscape, provides a very good tangible example that is suitable to assist in educating people regarding how Aboriginal people lived in this area or region. Other sites of higher education potential are generally not known to exist in the local area or region.
Integrity	Stratigraphic integrity of the site has clearly been destroyed due to major disturbance/loss of topsoil. The level of disturbance is likely to have removed all spatial and chronological information.	The site appears to have been subject to moderate levels of disturbance, however, there is a moderate possibility that useful spatial information can still be obtained from subsurface investigation of the site, even if it is unlikely that any useful chronological evidence survives.	The site appears relatively undisturbed and there is a high possibility that useful spatial information can still be obtained from subsurface investigation of the site, even if it is still unlikely that any useful chronological evidence survives.

Table 7.2 Assessment of Archaeological Significance of New Aboriginal Sites

AHIMS Site ID	Site Name	Site Type	Rarity	Represent-tive Value	Research Potential	Educational Potential	Integrity	Archaeological Significance
28-6-0055	Liverpool Range LU6-L1	Open artefact site	Low	Low	Low	Low	Low	Low
28-6-0054	Liverpool Range LU10-L1	Open artefact site	Low	Low	Low	Low	Low	Low
28-6-0053	Liverpool Range LU30-L1	Open artefact site	Low	Low	Low	Low	Low	Low
28-6-0079	LRWF AS1	Open artefact site	Low	Low	Low	Low	Low	Low
28-6-0064	LRWF_TWA_IF1	Open artefact site	Low	Low	Low	Low	Low	Low
28-6-0065	LRWF_TWA_IF2	Open artefact site	Low	Low	Low	Low	Low	Low
28-6-0084	LRWF IA1	Open artefact site	Low	Low	Low	Low	Low	Low
28-6-0020	Quindalup	Culturally modified tree	Moderate	Moderate	Low	Low	Moderate	Moderate
28-6-0070	Snake Creek	PAD	Low	Low	Low	Low	Low	Low
28-6-0071	Coolaburragundy River 4	PAD	Low	Low	Low	Low	Low	Low
28-6-0072	Coolaburragundy River 3	PAD	Low	Low	Low	Low	Low	Low
28-6-0078	Coolaburragundy River 1	PAD	Low	Low	Low	Low	Low	Low
28-6-0067	Turee Creek 2	PAD	Low	Low	Low	Low	Low	Low
28-6-0068	Turee Creek 1	PAD	Low	Low	Low	Low	Low	Low
36-2-0077	Talbragar River 1	PAD	Low	Low	Low	Low	Low	Low
36-2-0078	Talbragar River 2	PAD	Low	Low	Low	Low	Low	Low
28-6-0092	Talbragar River 5	PAD	Low	Low	Low	Low	Low	Low
28-6-0091	Coolaburragundy 5	PAD	Low	Low	Low	Low	Low	Low
28-6-0090	Green Wattle Gully 1	PAD	Low	Low	Low	Low	Low	Low
28-6-0089	Starkey Creek 1	PAD	Low	Low	Low	Low	Low	Low
28-6-0088	Starkey Creek 2	PAD	Low	Low	Low	Low	Low	Low
28-6-0087	Bounty Creek 1	PAD	Low	Low	Low	Low	Low	Low
28-6-0086	Rotherwood Road 1	PAD	Low	Low	Low	Low	Low	Low
28-6-0085	Coolah Creek Road 1	PAD	Low	Low	Low	Low	Low	Low
28-6-0075	Diana Creek	PAD	Low	Low	Low	Low	Low	Low
28-6-0077	Gundare Creek 1	PAD	Low	Low	Low	Low	Low	Low
28-6-0074	Gundare Creek 2	PAD	Low	Low	Low	Low	Low	Low
28-6-0076	Mooki Creek	PAD	Low	Low	Low	Low	Low	Low

7.6 Summary of Significance

An assessment of significance of all Aboriginal sites, areas of PAD and sensitive landform units (NSW Archaeology 2014) is presented in **Table 7.2**. In general, open artefact sites were assessed as retaining low scientific (archaeological) significance on the basis of their respective observed contents, comprising raw materials and artefact types that are regionally common, while retaining relatively low contextual integrity.

In the absence of local subsurface data, a preliminary assessment of significance for areas of PAD was based on the contents of surficial open artefact sites recorded in the AHIMS search area, which, as above, suggests an overall low scientific significance, consistent with previously identified areas of PAD and/or landform units (NSW Archaeology 2014).. Umwelt notes that this assessment is preliminary with reference to local examples only and cannot be accurately determined until subsurface excavations are completed.

Following the completion of the June 2026 arboriculturist survey and assessment of the five (5) previously recorded modified trees, it was concluded that wounding exhibited on three (3) recorded trees – 'LRWF ST 2' (AHIMS ID #28-6-0080), 'LRWF ST 3' (AHIMS ID #36-3-4173) and 'Collieblue' (AHIMS ID#28-6-0022) was not the result of cultural modification (i.e. intentional bark removal) and instead resulted from natural processes. As such, these were removed from the significance assessment presented in **Table 7.2**. The tree recorded as 'Quindalup 2' (AHIMS ID # 28-6-0021) could not be located during the inspection as was assumed to have been destroyed. In the absence of any remaining material evidence, 'Quindalup 2' (AHIMS ID # 28-6-0021) was likewise removed from the significance assessment. The tree recorded as 'Quindalup' (AHIMS ID # 28-6-0020) was concluded to exhibit wounding characteristic of cultural modification and as such, was subject to a revised assessment of significance on the basis of local examples. Relative comparison of 'Quindalup' (AHIMS ID # 28-6-0020) to other culturally modified tree examples suggested that it is neither a rare site type, nor did it retain much opportunity for education or research on the basis of its material evidence.

8.0 Impact Assessment

8.1 Summary of Proposed Impacts

The LRWF Project will include the installation, operation, maintenance and decommissioning of up to 173 wind turbine generators (WTGs), ancillary infrastructure and temporary facilities associated with construction of the LRWF Project which are summarised in **Table 8.1**.

The LRWF Project would have direct and indirect impacts on the environment, with all direct impacts contained within the Project's Proposed Indicative Development Footprint (IDF). The Proposed IDF is located within the broader Proposed Development Corridor which provides a more conservatively defined area in which all ground disturbing works for the LRWF Project would occur, with the addition of an assessed buffer to facilitate micro-siting of infrastructure to avoid key constraints.

The actual location and extent of the Proposed IDF will be determined prior to construction; however, all changes will be limited to within the boundaries of the Proposed Development Corridor. Ground disturbing construction activities and permanent infrastructure would typically include, but are not limited to:

- Removal of native and exotic vegetation.
- Investigative drilling, excavation or salvage works.
- Excavation works associated with the construction of temporary and permanent infrastructure, including for construction of transmission lines, road construction and upgrades, construction of hardstands, utilities and other infrastructure.
- Construction of permanent ancillary infrastructure, temporary facilities and off-site road works as described in **Table 8.1**.

For the purposes of the assessment presented in this section (refer to **Section 7.6**), it has been assumed that any recorded Aboriginal site that lies within the Proposed Development Corridor may be impacted.

Table 8.1 Potential Impacting Activities

Activity Type	Impact Description
Up to 173 WTGs	Earthworks activities associated with site preparation and laydown area associated with the construction of the proposed WTGs. For example, grading, excavation, placement and levelling of ground surface
Permanent ancillary infrastructure including internal roads, hardstands, main and collector substations, a switchyard, operations and maintenance facilities, underground cabling, overhead electricity transmission lines and poles, telecommunications facilities and utility services, permanent meteorological masts and water storage tanks	Earthworks activities associated with site preparation and laydown areas associated with the construction of the permanent infrastructure. For example, grading, excavation, placement and levelling of ground surface
Temporary facilities including temporary workforce accommodation, site offices, amenities, construction compounds and laydown areas,	Earthworks associated with use of construction and laydown areas, including placement of temporary infrastructure

Activity Type	Impact Description
concrete or asphalt batching plants, minor 'work front' construction access roads, temporary meteorological masts, environmental management and monitoring and signage	
Public road upgrades, involving upgrades to the proposed local transport route and establishment of site access points to facilitate delivery of wind turbine components to the LRWF Project as required	Earthworks associated with road widening and construction of site access points.

The proposed development activities will have the potential to directly impact Aboriginal sites, areas of PAD and/or landforms units (*sensu* NSW Archaeology 2014), which are located within the Proposed Development Corridor (refer to **Table 8.3**). Consideration of the location of Aboriginal sites in relation to the proposed Mod-3 Layout indicates a likely partial to total loss of value for all Aboriginal sites listed. Direct disturbance represents by far the most widespread type of potential impact. Direct impacts can occur within a varying degree of impact, including:

- Partial disturbance, where Aboriginal objects are moved locally from their current setting and/or only a portion of a wide site area are disturbed. For the current assessment, partial disturbance is included in the Proposed Development Corridor.
- Complete disturbance denoting when the entirety of an Aboriginal site and/or objects within a site are removed entirely from their current context and/or destroyed. For the current assessment, complete disturbance is included in the Proposed IDF.

Consequences of harm indicate the complete or partial loss of an Aboriginal site's contents, such as through large scale earthworks. Total loss of value can also include the modification of a landscape even where Aboriginal objects are removed and later returned. Partial loss describes the loss of part of an Aboriginal site; this could include earthworks related to the installation of wind farm infrastructure (e.g. turbines etc) and/or disturbance using access tracks and supporting infrastructure.

8.2 Avoiding and Minimising Harm

8.2.1 Early Design Refinement to Avoid and Minimise Harm

The precautionary principle (refer to **Section 8.4.3**) holds that if there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing cost-effective measures to prevent environmental degradation.

Through the multiple phases of assessments and modifications to the LRWF Project (refer to **Section 1.1**), the design of the Proposed Development Corridor has undergone several iterations as assessments progressed. Design refinements to the Proposed Development Corridor occurred, at least in part, from the results of archaeological surveys identifying areas of constraint, and through ongoing consultation with RAPs and other key stakeholders. In total, 23 Aboriginal sites or landform units (*sensu* NSW Archaeology 2014) have been avoided through refinements to the Proposed Development Corridor and are detailed in **Table 8.2**.

Table 8.2 Avoidance of Aboriginal Sites and Landform Units

AHIMS Site ID	Site name/ Landform Name	Management Strategy	Description
N/A	TL LU2/L4	Avoidance	Was in ETL, now avoiding impacts.
N/A	TL LU2/L6	Avoidance	Was in ETL, now avoiding impacts.
N/A	TL LU2/L7	Avoidance	Was in ETL, now avoiding impacts.
N/A	TL LU2/L8	Avoidance	Was in ETL, now avoiding impacts.
N/A	TL LU2/L9	Avoidance	Was in ETL, now avoiding impacts.
N/A	TL LU2/L10	Avoidance	Identified outside the Modified Development Corridor – ETL.
36-3-0709	CE-33-IF	Avoidance	Was in ETL, now avoiding impacts.
36-3-1138	S1MC311	Avoidance	Was in ETL, now avoiding impacts.
36-6-1139	S1MC312	Avoidance	Was in ETL, now avoiding impacts.
N/A	LU18b/L1	Avoidance	Within Approved Site Boundary.
N/A	TL LU1/L1	Avoidance	Was in ETL, now avoiding impacts.
36-3-0708	CE-32-IF	Avoidance	Was in ETL, now avoiding impacts.
36-3-1137	S1MC310	Avoidance	Was in ETL, now avoiding impacts.
28-6-0073	Coolaburragundy River 2	Avoidance	Within Approved Site Boundary.
28-6-0066	Junction Creek	Avoidance	Within Approved Site Boundary.
28-6-0069	Upland Basin	Avoidance	Removed from Mod-3 Development Corridor through this Application.
28-6-0081	LRWF AS2	Avoidance	Within Approved Site Boundary.
36-3-4174	Curryall Creek	Avoidance	Was in ETL, now avoiding impacts.
36-3-4172	LRWF AS3	Avoidance	Area removed from Project. Was in ETL, now avoiding impacts.
N/A	LU18b	Avoidance	Within Approved Site Boundary.
N/A	LU42g	Avoidance	Within Approved Site Boundary.
N/A	LU38c	Avoidance	Within Approved Site Boundary.
28-6-0020	Quindalup	Avoidance	Within PRU.

8.3 Impacts to Known Aboriginal Sites

Proposed development activities within the Proposed Development Corridor are anticipated to directly impact 29 Aboriginal sites, areas of PAD and/or landform units (*sensu* NSW Archaeology 2014) as listed in **Table 8.3**. The review indicates a total loss of value for all Aboriginal sites listed, with partial loss of value for areas of PAD.

The immediate and long-term consequence of the proposed activities will be the loss of site context (where present) and the loss of accessibility by Aboriginal peoples. Summary data of impacted sites is reflected in the consequence of harm presented in **Table 8.3**.

Table 8.3 Aboriginal Sites Impacted by the LRWF Project

AHIMS Site ID	Site Name	Site Type	Scientific Significance	Type of Harm	Degree of Harm	Consequence of Harm
28-6-0070	Snake Creek	PAD	Low	Direct	Partial	Partial loss
28-6-0071	Coolaburragundy River 4	PAD	Low	Direct	Partial	Partial loss
28-6-0072	Coolaburragundy River 3	PAD	Low	Direct	Partial	Partial loss
28-6-0078	Coolaburragundy River 1	PAD	Low	Direct	Partial	Partial loss
28-6-0067	Turee Creek 2	PAD	Low	Direct	Partial	Partial loss
28-6-0068	Turee Creek 1	PAD	Low	Direct	Partial	Partial loss
36-2-0077	Talbragar River 1	PAD	Low	Direct	Partial	Partial loss
36-2-0078	Talbragar River 2	PAD	Low	Direct	Partial	Partial loss
28-6-0084	LRWF IA1	Open artefact site	Low	Direct	Complete	Complete loss
28-6-0091	Coolaburragundy 5	PAD	Low	Direct	Partial	Partial loss
28-6-0089	Starkey Creek 1	PAD	Low	Direct	Partial	Partial loss
28-6-0092	Talbragar River 5	PAD	Low	Direct	Partial	Partial loss
28-6-0086	Rotherwood Road 1	PAD	Low	Direct	Partial	Partial loss
28-6-0085	Coolah Creek Road 1	PAD	Low	Direct	Partial	Partial loss
28-6-0088	Starkey Creek 2	PAD	Low	Direct	Partial	Partial loss
28-6-0087	Bounty Creek 1	PAD	Low	Direct	Partial	Partial loss
28-6-0090	Green Wattle Gully 1	PAD	Low	Direct	Partial	Partial loss
N/A	LU42i[5]	Landform Unit[6]	Low	Direct	Partial	Partial loss
N/A	LU26b	Landform Unit[4]	Low	Direct	Partial	Partial loss
28-6-0055	Liverpool Range LU6-L1	Open artefact site	Low	Direct	Complete	Complete loss
28-6-0054	Liverpool Range LU10-L1	Open artefact site	Low	Direct	Complete	Complete loss

[5] 'LU42i' was recorded <50 m outside of the Proposed Development Corridor. 'LU42i' is reported here considering the site's close proximity to the Proposed Development Corridor.

[6] Site identified as a landform unit with high archaeological sensitivity (NSW Archaeology 2014).

AHIMS Site ID	Site Name	Site Type	Scientific Significance	Type of Harm	Degree of Harm	Consequence of Harm
28-6-0053	Liverpool Range LU30-L1	Open artefact site	Low	Direct	Complete	Complete loss
28-6-0079	LRWF AS1	Open artefact site	Low	Direct	Partial	Partial loss
28-6-0077	Gundare Creek 1	PAD	Low	Direct	Partial	Partial loss
28-6-0074	Gundare Creek 2	PAD	Low	Direct	Partial	Partial loss
28-6-0076	Mooki Creek	PAD	Low	Direct	Partial	Partial loss
28-6-0075	Diana Creek	PAD	Low	Direct	Partial	Partial loss
28-6-0064	LRWF_TWA_IF1	Open artefact site	Low	Direct	Complete	Complete loss
28-6-0065	LRWF_TWA_IF2	Open artefact site	Low	Direct	Complete	Complete loss

8.4 Cumulative Impact Assessment

8.4.1 Ecologically Sustainable Development

Australia's *National Strategy for Ecologically Sustainable Development* (1992) defines ecologically sustainable development as: 'using, conserving and enhancing the community's resources so that ecological processes, on which life depends, are maintained, and the total quality of life, now and in the future, can be increased'. Put more simply, Ecologically Sustainable Development is development which aims to meet the needs of Australians today while conserving our ecosystems for the benefit of future generations.

8.4.2 Intergenerational Equity – Cumulative Impact Assessment

When assessing likely harm on Aboriginal objects and places it is necessary to consider the principle of intergenerational equity. The *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH [former] 2012, p.12) defines intergenerational equity as:

"...the principle whereby the present generation should ensure the health, diversity and productivity of the environment for the benefit of future generations".

In terms of Aboriginal heritage, intergenerational equity can be considered in terms of the cumulative impacts to Aboriginal objects and places in a region. If few Aboriginal objects and places remain in a region (for example, because of impacts by historic development or development under previous AHIPs/ACHMPs etc.), fewer opportunities remain for future generations of Aboriginal people to benefit from the preservation of their cultural heritage, places and objects.

Information about the integrity, rarity or representativeness of the Aboriginal objects and places that may be impacted by a project, and how those tangible cultural heritage elements demonstrate the lifeways of Aboriginal peoples within the region, is pertinent to the consideration of intergenerational equity and the understanding of a project's contribution to cumulative impacts. Where there is uncertainty, the precautionary principle must be followed (DECC [former] 2009: 26).

It is necessary to quantify the impacts of the LRWF Project of the collective cultural resource relative to a given geographic region. Comparison using the results of AHIMS searches (refer to **Section 5.1.1**) of the identified Aboriginal cultural heritage resource of the Proposed Development Corridor with that of the surrounding region provides a basic framework for identifying the impacts that a project may have on the broader Aboriginal cultural heritage resource of a given geographic region.

Of the 29 Aboriginal sites and landform units of archaeological sensitivity (as defined by NSW Archaeology [2014]) that will be impacted by the LRWF Project, five (5) comprise as open artefact sites, and 22 areas of PAD and landform units of archaeological sensitivity (as defined by NSW Archaeology [2014]) were also recorded within the Proposed Development Corridor.

AHIMS data indicate that the open artefact sites proposed to be impacted represent 7.9% of the extant open artefact resource of the AHIMS search area (refer to **Section 5.1.1**). While acknowledging the limitations of the AHIMS database with respect to the validity of listed site statuses, on the basis of this data it seems reasonable to conclude that the loss of these sites would not constitute a significant adverse impact to the known open artefact resource of the region.

8.4.3 The Precautionary Principle

As stated in **Section 8.2**, the precautionary principle holds that if there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing cost-effective measures to prevent environmental degradation.

In the context of the current investigation, Umwelt adopted a precautionary approach in the assessment of the impacts of the proposed development on the Aboriginal cultural resource of the Study Area and that this approach is reflected in the proposed management strategy provided in **Section 9.0**.

9.0 Management Strategy

9.1 Overview

The ACHA prepared by Umwelt forms part of the Applicant's Mod-3 Layout to the approved Liverpool Range Wind Farm (SSD 6696, as modified). The Code of Practice (DECCW, 2010b) provides best practice documents for Aboriginal Cultural Heritage Impact Assessments in NSW. Both documents have been considered in the development of the management strategy detailed in the following sections.

9.2 Aboriginal Cultural Heritage Management Plan (ACHMP)

An Aboriginal Cultural Heritage Management Plan (ACHMP) or appropriate Heritage Management Plan (HMP) for the Approved Development should be developed in consultation with the registered Aboriginal parties to address Condition 24 of the Development Consent SSD 6696. The requirements of Condition 24 are:

Prior to the commencement of construction, the Applicant must prepare a Heritage Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:

- be prepared by a suitably qualified and experienced person whose appointment has been endorsed by the Planning Secretary;
- be prepared in consultation with Heritage NSW and Aboriginal stakeholders;
- include updated baseline mapping of the heritage items within and adjoining the development corridor;
- include a description of the measures that would be implemented for:
- protecting the Aboriginal and European heritage items identified in Table 5-1 in Appendix 5 [of Development Consent Conditions SSD 6696], including fencing off the items prior to commencing construction and/or pre-construction minor works, and protecting any items located outside the approved development corridor;
- minimising and managing the impacts of the development on Aboriginal heritage items within the development corridor, including:
    - undertaking test excavations and salvage (if required) at the landform units identified in Table 5-2 in Appendix 5 [of Development Consent Conditions SSD 6696], where impacts cannot be avoided;
    - a strategy for the long-term management of any Aboriginal and European heritage items or material collected during the test excavation or salvage works;
    - a contingency plan and reporting procedure if:
        - Aboriginal heritage items outside the development footprint are damaged;
        - previously unidentified Aboriginal heritage items are found; or

- Aboriginal skeletal material is discovered;

- ensuring workers on site receive suitable heritage inductions prior to carrying out any development on site, and that records are kept of these inductions; and
- ongoing consultation with Aboriginal stakeholders and Heritage NSW during the implementation of the plan;
- a program to monitor and report on the effectiveness of these measures and any heritage impacts of the project.

9.3 Management of Aboriginal Sites within the Proposed Development Corridor

9.3.1 Avoidance

The Applicant has committed to avoiding Aboriginal sites detailed in **Table 8.2**. Micro-siting, for the purposes of this assessment, is defined as the process of locating WTGs, ancillary infrastructure and temporary infrastructure during detailed design without further approval as per Schedule 2, Condition 8 of the Development Consent, providing that:

- Ground disturbance is wholly contained within the Proposed Development Corridor.
- No WTG is moved more than 100 m from the relevant GPS coordinates.
- The revised location of the blade of a WTG is at least 50 m from the canopy of existing hollow-bearing trees; or where the proposed location of the blade of a WTG is already within 50 m of the canopy of existing hollow-bearing trees, the revised location is not any closer to the existing hollow-bearing trees.

The Proposed Development Corridor includes a buffer area around the Proposed IDF to facilitate micro-siting of LRWF Project infrastructure and ground disturbance works. Where possible, micro-siting of infrastructure and ground disturbance should be pursued around the mapped boundaries of Aboriginal sites and include, a minimum, 5 m from mapped centroid and/or mapped boundary extent, where possible. Where avoidance of an Aboriginal site can be achieved, these boundaries must be clearly fenced/demarcated prior to works commencing ground disturbance activities within the location of the site, and remain no-go zones until the works have concluded in this location.

In the instance of culturally modified tree ‘Quindalup’ (AHIMS ID # 28-6-0020), fencing and/or barricades should be established such that they do not interfere with tree growth (e.g. ≥10 m, or a suitable buffer where trees are clustered such as the tree protection zone). A program of inspection should also be implemented to provide an ongoing assessment of the fence / barrier condition and an indication of tree condition. In instances where obvious deterioration of tree condition is evident as a result of direct ground disturbance within the fenced area, an appropriately qualified person should be engaged to provide suitable management advice.

It is noted that should it be determined that any Aboriginal site cannot be avoided during future stages of the LRWF Project, provisions for suitable management strategies (i.e. surface collection, tree removal and salvage) must be integrated into the ACHMP in consultation with RAPs. An assessment of changed impacts in the updated ACHMP may be required to quantify associated impacts and reissued to RAPs for review and comment.

9.3.2 Test Excavation Program

A targeted archaeological excavation program will be carried out in any areas of PAD or landform units identified as being archaeologically sensitive (NSW Archaeology, 2014) where proposed Project activities would have direct impact to the ground surface (i.e. where proposed ground disturbances are constrained to the overlapping Proposed Development Corridor and area of PAD/landform unit boundaries).

The purpose of the test excavations would be to:

- identify and characterise the extent of subsurface Aboriginal objects, which in turn would be used to further inform additional design development, and/or refinement and construction planning, if needed.
- provide opportunity for the RAPs to participate in the excavation works, including the provision of feedback and cultural heritage information throughout the process.

Archaeological test excavation activities would be carried in accordance with the following general methodology, which should be refined in consultation with RAPs as part of the development of the ACHMP (and subject to the Conditions of Consent):

- A suitable testing interval will be determined for the area to be subject to test excavation, which must comply with Clause 5(ii) of Requirement 16a of the Code of Practice (DECCW, 2010b).
- Test pits must be hand excavated in 0.5 m x 0.5 m units. Excavated materials will be dry-sieved using 5-millimetre aperture wire-mesh sieves. All definite and potential cultural lithic items were collected at the sieves and bagged according to excavated pit number and spit. Sieved spoil, once cleared by the project archaeologist and with agreement by RAP representatives, can be returned to the excavated test pits on completion.
- Test pits were excavated to the base of extant A horizon soils, B-horizon clay subsoils and/or a conclusively identified cultural sterile layer.
- Representative profiles of all test pits must be recorded using photographs and test pit stratigraphy recorded on pro forma test pit recording forms, using standard sedimentological terms and criteria (after Isbell & The National Committee on Soil and Terrain, 1997). If obvious and/or suspected/definitive archaeological features such as hearths, earth ovens and/or heat treatment pits are identified, the project archaeologist, in consultation with RAP representatives, will undertake localised excavation to characterise and record the identified materials/feature(s) using the following methodology:
    - Targeted archaeological excavation will be undertaken using hand equipment to expose and record the feature/s and recover any Aboriginal objects using accepted techniques and spit levels of no greater than 10 cm (*sensu Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*; DECCW 2010a).
    - The surface of the feature will be cleaned by hand (using trowels, hand shovels and brushes, as required) to allow the edges of the feature to be identified. The feature will then be excavated in cross-section (half-sectioned or part thereof depending on the location of the feature within pit or whether it extends outside of the pit) to investigate the dimensions and orientation of the feature to more accurately assess whether it is a cultural feature or the result of natural process (for example, a burnt tree root/stump or accumulation of bone within a former void).The excavation will proceed according to the stratigraphy (if any) of the in-filling materials. If it is identified as a feature, it will be

photographed in cross-section and a stratigraphic profile of the cross-section will be recorded (where possible).

  - If it is identified as a feature, it will then be excavated in its entirety within the extents of the pit. All excavated cultural materials will be retained for analysis and samples of relevant materials will be sent for additional analysis, including geochronological analysis. If the feature extends outside the test pit, a further expansion may be undertaken to a maximum of 1 m^2.
  - Geochronological sampling would include the processing and analysis of samples to inform the absolute age of the soil profile and/or cultural assemblage recovered. Up to two (2) samples per excavation area would be collected for optically stimulated luminescence (OSL) analysis. Sediment samples would be collected from suitable test pits as determined by the project archaeologist to inform the broader geoarchaeological record of the Proposed Development Corridor and environs. If *in situ* organic materials (i.e., charcoal) are encountered during excavations, materials will be collected and labelled with applicable provenance information (depth, trench ID etc). Samples deemed appropriate for analysis will be sent to a suitable institution for radiocarbon dating.

- Protocols for following scenarios will apply to the test excavation program:
  - Should high concentrations of lithic objects high (e.g. >100/m^2) be recorded in any single test pit, excavation activities in the immediate vicinity must cease immediately. The project archaeologist, in consultation with the project manager, will determine if lithic objects are likely to extend beyond the test pit. If it is concluded that additional lithic objects are likely present, the locality will proceed to an archaeological salvage phase of excavation. Salvage excavation will comprise the expansion of the test pit to a maximum of 3 m^2 in any direction (inclusive of the original 0.25 m^2 test pit), as determined by the project archaeologist in consultation with RAPs on site. No single salvage excavation will exceed 3 m^2. The excavation methods should be consistent with those identified above.
  - Should human/possible human skeletal material be identified (either in situ or in excavated spoil) within any excavated area, excavation activities in the immediate vicinity must cease immediately. The procedure provided in **Section 9.5.2** must then be followed.
  - Should historical relics, features or distinct historical fill lenses be observed at any stage during test excavation activities, excavation would immediately cease. The project archaeologist (or a qualified historic heritage archaeologist, if required) would then record the find and determine the nature and extent of any associated deposit. The project archaeologist, in consultation with the project manager, must then notify Heritage NSW and seek further guidance.
  - Should evidence of 'contact' archaeology be identified (e.g., European materials such as glass or ceramic utilised to make traditional tools, and/or broken brick/earthenware used as hearth retainers etc), excavation activities in the area must cease immediately. The project archaeologist, once having consulted with RAP field representatives of the find, must then notify the project manager, who in turn must notify Heritage NSW.
  - If no lithic objects or other features are identified in any test pit within an area of PAD, that area of PAD will be considered to be archaeologically sterile and will no longer be a constraint to development.

On completion of test excavation activities, the project archaeologist will notify the project manager in writing when excavation activities have been completed in each area of PAD. The results of the excavation will be initially documented in a brief summary report to be provided to the project manager indicating when it is appropriate to proceed with construction activities. The project archaeologist, must at this time, prepare and lodge an Aboriginal Site Impact Recording Form (ASIRF) to document the impacts to the site on the AHIMS register. The ASIRF will make reference to the excavation report for further information.

Areas of PAD and landform units identified as being archaeologically sensitive (NSW Archaeology, 2014) that overlap with the Proposed Development Corridor and are recommended to be subject to test excavation are presented in **Table 9.1**.

Table 9.1 Sites and Landform Units Subject to Test Excavation

AHIMS Site ID	Site Name	Site Type
28-6-0070	Snake Creek	PAD
28-6-0071	Coolaburragundy River 4	PAD
28-6-0072	Coolaburragundy River 3	PAD
28-6-0078	Coolaburragundy River 1	PAD
28-6-0067	Turee Creek 2	PAD
28-6-0068	Turee Creek 1	PAD
36-2-0077	Talbragar River 1	PAD
36-2-0078	Talbragar River 2	PAD
28-6-0091	Coolaburragundy 5	PAD
28-6-0089	Starkey Creek 1	PAD
28-6-0092	Talbragar River 5	PAD
28-6-0086	Rotherwood Road 1	PAD
28-6-0085	Coolah Creek Road 1	PAD
28-6-0088	Starkey Creek 2	PAD
28-6-0087	Bounty Creek 1	PAD
28-6-0090	Green Wattle Gully 1	PAD
N/A	LU42i[7]	Landform Unit[8]
N/A	LU26b	Landform Unit[4]
28-6-0077	Gundare Creek 1	PAD
28-6-0074	Gundare Creek 2	PAD
28-6-0076	Mooki Creek	PAD
28-6-0075	Diana Creek	PAD

[7] 'LU42i' (was recorded <50 m outside of the Proposed Development Corridor. 'LU42i' is reported here considering the site's close proximity to the Proposed Development Corridor.

[8] Locality identified as a landform unit with high archaeological sensitivity (NSW Archaeology 2014).

9.3.3 Surface Collection Program

Surface collection is considered an appropriate and effective management option for the seven (7) open artefact sites within the Proposed Development Corridor, in the event that these sites cannot be avoided through micro-siting during design. A systematic salvage program will be undertaken within the Proposed Development Corridor prior to the commencement of any Project-related ground clearance works.

Following post-surface collection analyses of recovered Aboriginal objects, RAPs will be consulted regarding the appropriate treatment of recovered Aboriginal objects. Requirement 26 of the Code of Practice (DECCW, 2010b) provides standard procedures for the deposition of lithic artefacts. In the absence of a formal Care Agreement, these standard procedures will be followed.

Open artefact sites within the Proposed Development Corridor and are recommended to be subject for surface collection are presented in **Table 9.2**.

Table 9.2 Open Artefact Sites Recommended to be Subject to Surface Salvage

AHIMS Site ID	Site Name	Site Type
28-6-0084	LRWF IA1	Open artefact site
28-6-0055	Liverpool Range LU6-L1	Open artefact site
28-6-0054	Liverpool Range LU10-L1	Open artefact site
28-6-0053	Liverpool Range LU30-L1	Open artefact site
28-6-0079	LRWF AS1	Open artefact site
28-6-0064	LRWF_TWA_IF1	Open artefact site
28-6-0065	LRWF_TWA_IF2	Open artefact site

9.3.3.1 Post-fieldwork Analysis and Reporting

Following the completion of the salvage program, all recovered lithic objects (artefacts) recovered during the surface collection program will be subject to macroscopic attribute analysis, with the number of attributes recorded per specimen differing by technological type. All objects recovered will be temporarily stored until an appropriate option for long-term management of cultural materials is determined in consultation with RAPs. A report detailing the results of the archaeological salvage program undertaken (including the results of macroscopic analyses) will be completed within one (1) year of the fieldwork component of the program. Copies of any stand-alone specialist reports will be appended to the report. Reporting will be consistent with the best practice guidelines suggested by the Code of Practice (DECCW, 2010b). Copies of the final salvage report will be provided to all RAPs and Heritage NSW within 14 days of completion.

9.3.4 Summary

Aboriginal sites and landform units identified as being archaeologically sensitive (NSW Archaeology, 2014) partially or wholly within the Proposed Development Corridor and have the potential to be impacted by Project works. The previous sections detailed management strategies for the different types of sites and landform units represented within the Proposed Development Corridor and are summarised in **Table 9.3**.

As outlined in **Section 9.3.1**, avoidance of Aboriginal sites is the principal approach to be pursued by the Applicant in the management of Aboriginal sites and archaeologically sensitive landforms.

Table 9.3 Management Strategies for Aboriginal Sites within Proposed Development Corridor

AHIMS Site ID	Site Name	Site Type	Type of Harm	Degree of Harm	Consequence of Harm	Management Recommendation
28-6-0070	Snake Creek	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
28-6-0071	Coolaburragundy River 4	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
28-6-0072	Coolaburragundy River 3	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
28-6-0078	Coolaburragundy River 1	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
28-6-0067	Turee Creek 2	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
28-6-0068	Turee Creek 1	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
36-2-0077	Talbragar River 1	PAD, Grinding groove	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
36-2-0078	Talbragar River 2	PAD, Grinding groove	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
28-6-0020	Quindalup	Culturally modified tree	None	None	No harm	• Avoidance (**Section 9.3.1**)
28-6-0084	LRWF IA1	Open artefact site	Direct	Complete	Complete loss	• Avoidance (**Section 9.3.1**) • Surface salvage (**Section 9.3.3**)
Pending	Coolaburragundy 5	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
Pending	Starkey Creek 1	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
Pending	Talbragar River 3	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
Pending	Rotherwood Road 1	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
Pending	Coolah Creek Road 1	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
Pending	Starkey Creek 2	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
Pending	Bounty Creek 1	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)

AHIMS Site ID	Site Name	Site Type	Type of Harm	Degree of Harm	Consequence of Harm	Management Recommendation
Pending	Green Wattle Gully 1	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
NA	LU42i[9]	Landform Unit[10]	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
NA	LU26b	Landform Unit[4]	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
28-6-0055	Liverpool Range LU6-L1	Open artefact site	Direct	Complete	Complete loss	• Avoidance (**Section 9.3.1**) • Surface salvage (**Section 9.3.3**)
28-6-0054	Liverpool Range LU10-L1	Open artefact site	Direct	Complete	Complete loss	• Avoidance (**Section 9.3.1**) • Surface salvage (**Section 9.3.3**)
28-6-0053	Liverpool Range LU30-L1	Open artefact site	Direct	Complete	Complete loss	• Avoidance (**Section 9.3.1**) • Surface salvage (**Section 9.3.3**)
28-6-0079	LRWF AS1	Open artefact site	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Surface salvage (**Section 9.3.3**)
28-6-0077	Gundare Creek 1	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
28-6-0074	Gundare Creek 2	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
28-6-0076	Mooki Creek	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
28-6-0075	Diana Creek	PAD	Direct	Partial	Partial loss	• Avoidance (**Section 9.3.1**) • Test excavation (**Section 9.3.2**)
28-6-0064	LRWF_TWA_IF1	Open artefact site	Direct	Complete	Complete loss	• Avoidance (**Section 9.3.1**) • Surface salvage (**Section 9.3.3**)
28-6-0065	LRWF_TWA_IF2	Open artefact site	Direct	Complete	Complete loss	• Avoidance (**Section 9.3.1**) • Surface salvage (**Section 9.3.3**)

[9] 'LU42i' (AHIMS ID #Pending) was recorded <50 m outside of the Proposed Development Corridor, and is reported here considering the site's close proximity to the Proposed Development Corridor.

[10] Site identified as a landform unit with particularly high archaeological sensitivity as defined by NSW Archaeology (2014).

9.4 Aboriginal Community Consultation

To ensure proactive engagement with RAPs and effective planning for, and implementation of agreed management/mitigation measures, a systematic program of RAP consultation will occur during the preparation and implementation of the ACHMP, which will be implemented for the duration of the LRWF Project. Protocols for RAP engagement must also be documented in the ACHMP and include specific measures including but not limited to RAP engagement, dispute investigation and resolution, and community access protocols. The ACHMP may also seek to develop an Aboriginal Community Consultative Committee (CCC) to establish a standardised forum for open discussion between stakeholders, including but not limited to the Applicant, RAPs and other Aboriginal stakeholders (if identified), local council/s and other stakeholders on any issues directly relating to the heritage and environmental performance, and Aboriginal community relations associated with the construction and operation of the LRWF Project.

9.5 Previously Unrecorded Aboriginal sites and/or Objects

Provisions regarding the appropriate management action(s) for any previously unrecorded Aboriginal sites and/or objects identified within the Proposed Development Corridor throughout the life of the LRWF Project must be incorporated into the ACHMP (i.e. an Unexpected Finds Protocol). Management action(s) will vary according to the type of evidence identified, its significance (both scientific and cultural) and the nature of potential impacts.

9.5.1 Previously Unrecorded Aboriginal Objects

Provisions regarding the appropriate management action(s) for any previously unrecorded Aboriginal archaeological sites/materials identified within the Proposed Development Corridor throughout the life of the LRWF Project (including construction, operations and decommissioning phases) must be incorporated into the ACHMP (i.e. an Unexpected Finds Protocol). Management action(s) will vary according to the type of evidence identified, its significance and the nature of potential impacts but in general will comprise the following procedure:

- All works would cease immediately in the area to prevent any further impacts to the object(s).
- Notify the Applicant's Environmental Manager and/or Project Manager immediately.
- A qualified heritage consultant would be engaged to determine the nature, extent and scientific significance of the object(s). RAPs are to be notified in writing regarding the nature of the find and if required, proposed management actions. RAPs will be requested to provide comments within seven (7) days.
- An AHIMS site card would be completed and submitted to Heritage NSW in compliance with Section 89A of the NPW Act. The site cards will be lodged within 21 days and a copy provided to those RAPs who wish to have a copy.
- The ACHMP and any other Project environmental management systems or databases would be updated (as relevant) to address the new Aboriginal site. Management actions would be dependent on the nature and extent of identified Aboriginal sites, and may include the following:
    - Isolated lithic objects or low-density concentrations (e.g. <10 lithic objects/m^2).

- High density open artefact sites (e.g. >100 lithic objects/m^2).
- Culturally modified trees.
- Skeletal remains (refer to **Section 9.5.2**).

9.5.2 Human Skeletal Remains

In the event that potential human skeletal remains are identified throughout the life of the LRWF Project (including construction, operations and decommissioning phases), the following standard procedure outlined below will be followed (this procedure will also be included in the ACHMP for the LRWF Project):

1. All work in the vicinity of the remains must cease immediately.
2. The location must be cordoned off and the appropriate authorities notified (including NSW Police and if considered of possible Aboriginal descent, NSW Heritage).
3. Subject to any alternative instruction from the NSW Police or Heritage NSW, a physical or forensic anthropologist would be commissioned to inspect the remains *in situ* and make a determination of ancestry (Aboriginal or non-Aboriginal) and antiquity (pre-contact, historic or modern).
4. Subsequent management actions will be dependent on the findings of the inspection undertaken under Point 3.
5. If the remains are identified as modern and human, the area will become a crime scene under the jurisdiction of the NSW Police.
6. If the remains are identified as pre-contact or historic Aboriginal, the site will be secured, and Heritage NSW and all RAPs notified in writing.
7. If the remains are identified as historic (non-Aboriginal), the site is to be secured and the Heritage NSW contacted.
8. If the remains are identified as non-human, work can recommence immediately.

9.6 Aboriginal Cultural Heritage Awareness Training

An Aboriginal cultural heritage awareness training package will be developed for use throughout the life of the LRWF Project. This package will be developed in consultation with RAPs and completed prior to the commencement any ground disturbance works. Aboriginal cultural awareness training will be mandatory for all staff and contractors whose roles may require interaction with Aboriginal sites and/or involve consultation with Aboriginal stakeholders.

10.0 References

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Umwelt 2023b. Liverpool Range Wind Farm Addendum Report: Temporary Workers Accommodation Aboriginal Cultural Heritage Assessment. Report prepared for Tilt Renewables.

Appendix A

AHIMS Extensive Search Results

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 32409 - Mod 3 ACHA

Client Service ID : 1086603

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
28-6-0045	DTG/ST45 - Cox Gap 1	AGD	55	756850	6478450	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Mr.Mark Rawson					**Permits**		
28-6-0032	DTG/OC35 - Baladonga	AGD	55	756030	6482775	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	**Recorders**	Mr.Mark Rawson					**Permits**	2300,2304	
28-6-0033	DTG/OC32 - Bindaree	AGD	55	754400	6468090	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	**Recorders**	Mr.Mark Rawson					**Permits**	2300,2304	
28-6-0034	DTG/OC31 - Belang	AGD	55	752060	6465560	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	**Recorders**	Mr.Michael Therin					**Permits**	2300,2304	
28-6-0035	DTG/OC34 - Coolaburragundy 2	AGD	55	755100	6471910	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	**Recorders**	Stephanie Garling					**Permits**	2300,2304	
28-6-0036	DTG/ST32 - Coolaburragundy 1	AGD	55	754920	6471740	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Stephanie Garling					**Permits**		
28-6-0037	DTG/IF11 - Coolaburragundy 3	AGD	55	756000	6473900	Open site	Valid	Artefact : -	Isolated Find	
	Contact	**Recorders**	Stephanie Garling					**Permits**		
28-6-0038	DTG/SHDI-4 - Gotta Rock 2-5	AGD	55	754630	6469940	Closed site	Valid	Artefact : -	Shelter with Deposit	
	Contact	**Recorders**	Mr.Mark Rawson					**Permits**		
28-6-0039	DTG/OC33 - Gotta Rock 1	AGD	55	754610	6469900	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	**Recorders**	Mr.Mark Rawson					**Permits**	2300,2304	
28-6-0040	DTG/ST31 - Vaughans Gully 1	AGD	55	757350	6478810	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Ms.Adrienne Howe-Piening					**Permits**		
28-6-0041	DTG/ST30 - Vaughans Gully 2	AGD	55	757310	6478870	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Mr.Michael Therin					**Permits**		
28-6-0042	DTG/OC36 - Black Stump 1	AGD	55	756240	6483820	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	**Recorders**	Stephanie Garling					**Permits**		
28-6-0043	DTG/ST33 - Black Stump 2	AGD	55	756200	6484020	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Stephanie Garling					**Permits**		
28-6-0044	DTG/IF12 - Mingladon	AGD	55	756970	6487700	Open site	Valid	Artefact : -	Isolated Find	
	Contact	**Recorders**	Mr.Mark Rawson					**Permits**		

Report generated by AHIMS Web Service on 29/01/2026 for Andrew Crisp for the following area at Lat, Long From : -31.9251, 149.6569 - Lat, Long To : -31.6333, 150.1513. Number of Aboriginal sites and Aboriginal objects found is 89

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 32409 - Mod 3 ACHA

Client Service ID : 1086603

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
29-4-0012	Isolated Artefact_(IA 7);IA 7;	AGD	56	221690	6485760	Open site	Valid	Artefact : -	Isolated Find	2752,105401
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0013	Isolated Artefact_(IA 8);IA 8;	GDA	56	216454	6484474	Open site	Valid	Artefact : -	Isolated Find	2752,105401
	Contact	**Recorders**						**Permits**		
29-4-0016	Isolated Artefact_(IA 11);IA 11;	AGD	56	225650	6482520	Open site	Valid	Artefact : -	Isolated Find	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0017	Isolated Artefact_(IA 12);IA 12;	AGD	56	225220	6482840	Open site	Valid	Artefact : -	Isolated Find	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0018	Warung State Forest Site 1;WSF-S1;	AGD	56	216143	6484838	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0019	Warung State Forest Site 2;WSF-S2;	AGD	56	216154	6484839	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0020	Warung State Forest Site 3;WSF-S3;	AGD	56	216154	6484851	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-6-0050	HV 3;	AGD	56	230000	6468650	Open site	Valid	Artefact : -	Open Camp Site	929
	Contact	**Recorders**	Margrit Koettig					**Permits**		
29-4-0021	Warung State Forest Site 4;WSF-S4;	AGD	56	216157	6484849	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0022	Warung State Forest Site 5;WSF-S5;	AGD	56	216190	6484810	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0023	Warung State Forest Site 6;WSF-S6;	AGD	56	216590	6485010	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0024	Warung State Forest Site 7;WSF-S7;	AGD	56	216690	6484990	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0025	Warung State Forest Site 8;WSF-S8;	AGD	56	216840	6484990	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0026	Warung State Forest Site 9;WSF-S9;	AGD	56	217080	6485140	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0027	Warung State Forest Site 10;WSF-S10;	AGD	56	216870	6487890	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0028	Warung State Forest Site 11;WSF-S11;	AGD	56	217180	6488030	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0029	Warung State Forest Site 12;WSF-S12;	AGD	56	217220	6488800	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0030	Warung State Forest Site 13;WSF-S13;	AGD	56	217240	6488940	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		

Report generated by AHIMS Web Service on 29/01/2026 for Andrew Crisp for the following area at Lat, Long From : -31.9251, 149.6569 - Lat, Long To : -31.6333, 150.1513. Number of Aboriginal sites and Aboriginal objects found is 89

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
29-4-0031	Warung State Forest Site 14;WSF-S14;	AGD	56	218120	6489140	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0032	Warung State Forest Site 15;WSF-S15;	AGD	56	218350	6489200	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0033	Warung State Forest Site 16;WSF-S16;	AGD	56	219670	6487800	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0034	Warung State Forest Site 17;WSF-S17;	AGD	56	218420	6484910	Open site	Valid	Artefact : -	Open Camp Site	2752,105401
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0035	Warung State Forest Site 18;WSF-S18;	AGD	56	218300	6483590	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0036	Warung State Forest Site 19;WSF-S19;	AGD	56	218340	6483220	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0037	Warung State Forest Site 20;WSF-S20;	AGD	56	218640	6483040	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0038	Warung State Forest Site 21;WSF-S21;	AGD	56	219080	6483060	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0039	Warung State Forest Site 22;WSF-S22;	AGD	56	219400	6483360	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0041	Warung State Forest Site 24;WSF-S24;	AGD	56	224550	6482850	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0042	Warung State Forest Site 25;WSF-S25;	AGD	56	228600	6469990	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0043	Norfolk Falls Art Site;NFAS;	AGD	56	216168	6484836	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0006	Isolated Artefact_(IA 1);IA 1;	GDA	56	214212	6484704	Open site	Valid	Artefact : -	Isolated Find	2752,105401
	Contact	**Recorders**						**Permits**		
29-4-0007	Isolated Artefact_(IA 2);IA 2;	AGD	56	216850	6484100	Open site	Valid	Artefact : -	Isolated Find	2752,105401
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0008	Isolated Artefact_(IA 3);IA 3;	AGD	56	216150	6484854	Open site	Valid	Artefact : -	Isolated Find	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0009	Isolated Artefact_(IA 4);IA 4;	AGD	56	217510	6489090	Open site	Valid	Artefact : -	Isolated Find	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0010	Isolated Artefact_(IA 5);IA 5;	AGD	56	219000	6488660	Open site	Valid	Artefact : -	Isolated Find	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0011	Isolated Artefact_(IA 6);IA 6;	AGD	56	220290	6486630	Open site	Valid	Artefact : -	Isolated Find	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-1-0408	HV 12;	AGD	56	224000	6464452	Open site	Valid	Artefact : -	Open Camp Site	929
Contact	Recorders	Margrit Koettig						Permits		
28-6-0009	Galandene;Coolah;	AGD	55	755950	6475200	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	1333
Contact	Recorders	L Ahearn						Permits		
28-6-0010	Coolah;	AGD	55	755800	6476000	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	
Contact	Recorders	Sabu Dunn						Permits		
28-6-0022	Collieblue;	AGD	55	764040	6470250	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
Contact	Recorders	Warren Bluff						Permits		
28-6-0023	Black Stump Creek;	AGD	55	756100	6484220	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	
Contact	Recorders	Warren Bluff						Permits		
28-6-0026	KP-ST-1	AGD	55	758900	6496100	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	3111
Contact	Recorders	Central West Archaeological and Heritage Services Pty Ltd						Permits		
36-2-0077	Talbragar River 1	GDA	55	776148	6467632	Open site	Valid	Potential Archaeological Deposit (PAD) : -, Grinding Groove : 1		
Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Rebeeca Ogden-Brunell,Mis						Permits		
29-4-0046	BUNDELLA CREEK 1	AGD	56	220620	6490990	Open site	Valid	Artefact : -		
Contact	Recorders	Kath Sale						Permits		
24-6-0033	Southwest Poopelloe Lake AS5	GDA	55	778458	6487910	Open site	Valid	Artefact : -		
Contact	Recorders	Australian Heritage Services Pty Ltd,Australian Heritage Services Pty Ltd,Mr.Andre						Permits		
28-6-0050	BBS; Walhallow LALC; Pandora Pass Rd1	AGD	55	775965	6491620	Open site	Valid	Modified Tree (Carved or Scarred) : 1		98931
Contact	Recorders	Archaeological Surveys & Salvage ,Walhallow LALC - BBS survey team						Permits		
28-6-0054	Liverpool Range LU10-L1	GDA	55	778664	6487168	Open site	Valid	Artefact : -		
Contact	Recorders	Doctor.Julie Dibden,NSW Archaeology Pty Ltd						Permits		
28-6-0055	Liverpool Range LU6-L1	GDA	55	766467	6476439	Open site	Valid	Artefact : -		
Contact	Recorders	Doctor.Julie Dibden,NSW Archaeology Pty Ltd						Permits		
29-4-0051	Coolah Tops Coxsâ€™ Ck Sawmill Artefact Scatter	GDA	56	217068	6485353	Open site	Valid	Artefact : -		
Contact	Recorders	Darkinjung LALC - Wyong,Ms.Sharon Hodgetts						Permits		
29-4-0052	Coolah Tops Mullian Trail Artefact	GDA	56	217162	6488559	Open site	Valid	Artefact : -		
Contact	Recorders	Darkinjung LALC - Wyong,Ms.Sharon Hodgetts						Permits		

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
28-6-0056	TRLR_IF_1	GDA	55	772976	6483852	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Jessica Blackman					**Permits**		
29-4-0054	CB20-IF02	GDA	56	218018	6464375	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Mr.Joel Deacon,Arrow Heritage Solutions					**Permits**		
29-4-0055	CB20-ST01	GDA	56	217947	6467940	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Mr.Joel Deacon,Arrow Heritage Solutions					**Permits**		
28-6-0062	The Rock IF-1	GDA	55	754390	6469814	Open site	Valid	Artefact : -		
	Contact	**Recorders**	OzArk Environmental and Heritage Management - Dubbo,Mr.Brendan Fisher					**Permits**		
28-6-0066	Junction Creek	GDA	55	769750	6472027	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					**Permits**		
28-6-0067	Turee Creek 2	GDA	55	764718	6468055	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					**Permits**		
28-6-0068	Turee Creek 1	GDA	55	764868	6467940	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					**Permits**		
28-6-0069	Upland Basin	GDA	55	780399	6488220	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					**Permits**		
28-6-0070	Snake Creek	GDA	55	775122	6487004	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					**Permits**		
28-6-0071	Coolaburragundy River 4	GDA	55	775169	6487076	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					**Permits**		
28-6-0072	Coolaburragundy River 3	GDA	55	774696	6486560	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					**Permits**		
28-6-0073	Coolaburragundy River 2	GDA	55	773650	6484407	Open site	Valid	Potential Archaeological Deposit (PAD) : -		

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0074	Gundare Creek 2	GDA	55	769685	6488105	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0075	Diana Creek	GDA	55	769971	6486128	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0076	Mooki Creek	GDA	55	770266	6484626	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0077	Gundare Creek 1	GDA	55	765775	6483870	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0078	Coolaburragundy River 1	GDA	55	766584	6481535	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0079	LRWF AS1	GDA	55	766585	6481503	Open site	Valid	Artefact : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0080	LRWF ST 2	GDA	55	771455	6466740	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0081	LRWF AS 2	GDA	55	780296	6488366	Open site	Valid	Artefact : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0082	LRWF CS 1	GDA	55	773646	6485776	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0083	LRWF ST1	GDA	55	767703	6488869	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0084	LRWF IA 1	GDA	55	766474	6482375	Open site	Valid	Artefact : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0064	LRWF_TWA_IF1	GDA	55	760493	6473450	Open site	Valid	Artefact : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Andrew Crisp					Permits		

Report generated by AHIMS Web Service on 29/01/2026 for Andrew Crisp for the following area at Lat, Long From : -31.9251, 149.6569 - Lat, Long To : -31.6333, 150.1513. Number of Aboriginal sites and Aboriginal objects found is 89

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 32409 - Mod 3 ACHA

Client Service ID : 1086603

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
28-6-0065	LRWF_TWA_IF2	GDA	55	759905	6473853	Open site	Valid	Artefact : -		

Contact **Recorders** Umwelt (Australia) Pty Limited - Individual users,Mr.Andrew Crisp **Permits**

**** Site Status**

Valid - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.

Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground

Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified

Report generated by AHIMS Web Service on 29/01/2026 for Andrew Crisp for the following area at Lat, Long From : -31.9251, 149.6569 - Lat, Long To : -31.6333, 150.1513. Number of Aboriginal sites and Aboriginal objects found is 89

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 32409 - Mod 3 ACHA # 2

Client Service ID : 1086604

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-1-0471	Borambill Creek 1	AGD	56	219900	6450600	Open site	Valid	Artefact : -	Isolated Find	
	Contact	**Recorders**	Unknown Author					**Permits**		
29-6-0052	HV 17;	AGD	56	219000	6460000	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	929
	Contact	**Recorders**	Margrit Koettig					**Permits**		
36-3-0117	Coolah Rd.;	AGD	55	779640	6454890	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Warren Bluff					**Permits**		
36-3-0118	Borambil_No.3;	AGD	55	781790	6452780	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Warren Bluff					**Permits**		
36-3-0119	Borambil No.2;	AGD	55	781800	6452760	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Warren Bluff					**Permits**		
36-3-0120	Borambil No.1;	AGD	55	783290	6451990	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Warren Bluff					**Permits**		
36-3-0144	HV18;	AGD	55	783000	6454000	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	929
	Contact	**Recorders**	Margrit Koettig					**Permits**		
28-6-0020	Quindalup;	AGD	55	770840	6462980	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Warren Bluff					**Permits**		
28-6-0021	Quindalup 2;	AGD	55	769600	6463420	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	
	Contact	**Recorders**	Warren Bluff					**Permits**		
36-2-0078	Talbragar River 2	GDA	55	771725	6462254	Open site	Valid	Potential Archaeological Deposit (PAD) : -, Grinding Groove : 1		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Rebeeca Ogden-Brunell,Mis					**Permits**		
36-3-0308	BBS; Mudgee LALC; Turill State Forest	AGD	55	777301	6451834	Open site	Valid	Artefact : 1000		98970
	Contact	**Recorders**	Mudgee Local Aboriginal Land Council					**Permits**		
36-3-0309	BBS; Mudgee LALC; Turill State Forest 1	AGD	55	777506	6451425	Open site	Valid	Artefact : 4		98970

Report generated by AHIMS Web Service on 29/01/2026 for Andrew Crisp for the following area at Lat, Long From : -32.0718, 149.833 - Lat, Long To : -31.9263, 150.0802. Number of Aboriginal sites and Aboriginal objects found is 33

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 32409 - Mod 3 ACHA # 2

Client Service ID : 1086604

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Mudgee Local Aboriginal Land Council					Permits		
36-3-0310	BBS; Mudgee LALC; Turill State Forest 2	AGD	55	777478	6451338	Open site	Valid	Artefact : 6		98970
	Contact	Recorders	Mudgee Local Aboriginal Land Council					Permits		
36-3-0311	BBS; Mudgee LALC; Turill State Forest 3	AGD	55	777600	6451363	Open site	Valid	Artefact : 16		98970
	Contact	Recorders	Mudgee Local Aboriginal Land Council					Permits		
36-3-0312	BBS; Mudgee LALC; Turill State Forest 4	AGD	55	775071	6449780	Open site	Valid	Artefact : 31		98970
	Contact	Recorders	Mudgee Local Aboriginal Land Council					Permits		
36-3-0313	BBS; Mudgee LALC; Turill State Forest 5	AGD	55	776182	6450040	Open site	Valid	Artefact : 1		98970
	Contact	Recorders	Mudgee Local Aboriginal Land Council					Permits		
36-3-0314	BBS; Mudgee LALC; Turill State Forest 6	AGD	55	775430	6450976	Closed site	Valid	Artefact : 2		98970
	Contact	Recorders	Mudgee Local Aboriginal Land Council					Permits		
36-3-0315	BBS; Mudgee LALC; Turill State Forest 7	AGD	55	775060	6450019	Open site	Valid	Artefact : 23		98970
	Contact	Recorders	Mudgee Local Aboriginal Land Council					Permits		
36-3-0316	BBS; Mudgee LALC; Turill State Forest 8	AGD	55	775033	6449946	Open site	Valid	Artefact : 12		98970
	Contact	Recorders	Mudgee Local Aboriginal Land Council					Permits		
36-3-0317	BBS; Mudgee LALC; Turill State Forest 9	AGD	55	774998	6450133	Open site	Valid	Artefact : 14		98970
	Contact	Recorders	Mudgee Local Aboriginal Land Council					Permits		
36-3-0318	BBS; Mudgee LALC; Turill State Forest 10	AGD	55	775097	6450449	Open site	Valid	Artefact : 1		98970
	Contact	Recorders	Mudgee Local Aboriginal Land Council					Permits		
36-3-0319	BBS; Mudgee LALC; Turill State Forest 11	AGD	55	775074	6450218	Closed site	Valid	Artefact : 2		98970
	Contact	Recorders	Mudgee Local Aboriginal Land Council					Permits		
36-3-0320	BBS; Mudgee LALC; Turill State Forest 12	AGD	55	776422	6452690	Closed site	Valid	Artefact : 5		98970
	Contact	Recorders	Mudgee Local Aboriginal Land Council					Permits		
28-6-0053	Liverpool Range LU30-L1	GDA	55	776965	6459411	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Julie Dibden,NSW Archaeology Pty Ltd					Permits		
29-4-0056	CB20-IF03	GDA	56	218118	6461052	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.Joel Deacon,Arrow Heritage Solutions					Permits		
29-4-0053	CB20-IF01	GDA	56	218181	6460717	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.Joel Deacon,Arrow Heritage Solutions					Permits		
28-6-0063	SNI-CMT06	GDA	55	776489	6458330	Open site	Not a Site	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	AHIMS APP Users,AHIMS APP Users,AHIMS APP Users,Miss.Rohani (emm consultir					Permits		
36-3-4057	SNI-IF29	GDA	55	777248	6449815	Open site	Valid	Artefact : -		
	Contact	Recorders	AHIMS APP Users,Miss.Rohani (emm consulting) Dutch					Permits		
36-3-4081	SNI-AS23	GDA	55	777245	6449865	Open site	Valid	Artefact : -		
	Contact	Recorders	AHIMS APP Users,Miss.Rohani (emm consulting) Dutch					Permits		

Report generated by AHIMS Web Service on 29/01/2026 for Andrew Crisp for the following area at Lat, Long From : -32.0718, 149.833 - Lat, Long To : -31.9263, 150.0802. Number of Aboriginal sites and Aboriginal objects found is 33

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 32409 - Mod 3 ACHA # 2

Client Service ID : 1086604

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
36-3-4119	SNI-GG12	GDA	55	778529	6452197	Open site	Valid	Grinding Groove : -		
	Contact	**Recorders**	AHIMS APP Users,Miss.Rohani (emm consulting) Dutch					**Permits**		
29-4-0057	Munmurra Grinding Grooves 1	GDA	56	218670	6460204	Open site	Valid	Grinding Groove : -		
	Contact	**Recorders**	Niche Environment and Heritage,Miss.Chelsea Freeman					**Permits**		
36-3-4173	LRWF ST 3	GDA	55	772033	6455879	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					**Permits**		
36-3-4370	Restriction applied. Please contact ahims@environment.nsw.gov.au.					Open site	Valid			
	Contact	**Recorders**	Ms.Allira Chatfield,Mr.John Duggan,Ms.Aleshia Lonsdale					**Permits**		

**** Site Status**

Valid - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.

Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground

Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified

Report generated by AHIMS Web Service on 29/01/2026 for Andrew Crisp for the following area at Lat, Long From : -32.0718, 149.833 - Lat, Long To : -31.9263, 150.0802. Number of Aboriginal sites and Aboriginal objects found is 33

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 32409 - Mod 3 ACHA # 3

Client Service ID : 1086608

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
28-3-0045	RC/IF1 - "Bomera"	AGD	55	768100	6516400	Open site	Valid	Artefact : -	Isolated Find	
	Contact	**Recorders**	Stephanie Garling					**Permits**		
28-3-0044	RC/IF2 - "Schoolboy Creek"	AGD	55	772300	6513000	Open site	Valid	Artefact : -	Isolated Find	
	Contact	**Recorders**	Stephanie Garling					**Permits**		
28-6-0044	DTG/IF12 - Mingladon	AGD	55	756970	6487700	Open site	Valid	Artefact : -	Isolated Find	
	Contact	**Recorders**	Mr.Mark Rawson					**Permits**		
29-4-0012	Isolated Artefact_(IA 7);IA 7;	AGD	56	221690	6485760	Open site	Valid	Artefact : -	Isolated Find	2752,105401
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0013	Isolated Artefact_(IA 8);IA 8;	GDA	56	216454	6484474	Open site	Valid	Artefact : -	Isolated Find	2752,105401
	Contact	**Recorders**						**Permits**		
29-4-0018	Warung State Forest Site 1;WSF-S1;	AGD	56	216143	6484838	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0019	Warung State Forest Site 2;WSF-S2;	AGD	56	216154	6484839	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0020	Warung State Forest Site 3;WSF-S3;	AGD	56	216154	6484851	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0021	Warung State Forest Site 4;WSF-S4;	AGD	56	216157	6484849	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0022	Warung State Forest Site 5;WSF-S5;	AGD	56	216190	6484810	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0023	Warung State Forest Site 6;WSF-S6;	AGD	56	216590	6485010	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0024	Warung State Forest Site 7;WSF-S7;	AGD	56	216690	6484990	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0025	Warung State Forest Site 8;WSF-S8;	AGD	56	216840	6484990	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0026	Warung State Forest Site 9;WSF-S9;	AGD	56	217080	6485140	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0027	Warung State Forest Site 10;WSF-S10;	AGD	56	216870	6487890	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0028	Warung State Forest Site 11;WSF-S11;	AGD	56	217180	6488030	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0029	Warung State Forest Site 12;WSF-S12;	AGD	56	217220	6488800	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0030	Warung State Forest Site 13;WSF-S13;	AGD	56	217240	6488940	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		

Report generated by AHIMS Web Service on 29/01/2026 for Andrew Crisp for the following area at Lat, Long From : -31.7439, 149.6059 - Lat, Long To : -31.4514, 150.1003. Number of Aboriginal sites and Aboriginal objects found is 55

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 32409 - Mod 3 ACHA # 3

Client Service ID : 1086608

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
29-4-0031	Warung State Forest Site 14;WSF-S14;	AGD	56	218120	6489140	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0032	Warung State Forest Site 15;WSF-S15;	AGD	56	218350	6489200	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0033	Warung State Forest Site 16;WSF-S16;	AGD	56	219670	6487800	Open site	Valid	Artefact : -	Open Camp Site	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0034	Warung State Forest Site 17;WSF-S17;	AGD	56	218420	6484910	Open site	Valid	Artefact : -	Open Camp Site	2752,105401
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0043	Norfolk Falls Art Site;NFAS;	AGD	56	216168	6484836	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0006	Isolated Artefact_(IA 1);IA 1;	GDA	56	214212	6484704	Open site	Valid	Artefact : -	Isolated Find	2752,105401
	Contact	**Recorders**						**Permits**		
29-4-0007	Isolated Artefact_(IA 2);IA 2;	AGD	56	216850	6484100	Open site	Valid	Artefact : -	Isolated Find	2752,105401
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0008	Isolated Artefact_(IA 3);IA 3;	AGD	56	216150	6484854	Open site	Valid	Artefact : -	Isolated Find	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0009	Isolated Artefact_(IA 4);IA 4;	AGD	56	217510	6489090	Open site	Valid	Artefact : -	Isolated Find	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0010	Isolated Artefact_(IA 5);IA 5;	AGD	56	219000	6488660	Open site	Valid	Artefact : -	Isolated Find	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-4-0011	Isolated Artefact_(IA 6);IA 6;	AGD	56	220290	6486630	Open site	Valid	Artefact : -	Isolated Find	2752
	Contact	**Recorders**	Mr.Warwick Pearson					**Permits**		
29-1-0002	Trinkey Station;	AGD	56	222000	6516200	Open site	Valid	Modified Tree (Carved or Scarred) : -, Ceremonial Ring (Stone or Earth) : -	Bora/Ceremonial,Carved Tree	
	Contact	**Recorders**	Constable					**Permits**		
28-6-0005	Oakey Creek;Clear Springs;	AGD	55	751440	6498300	Open site	Valid	Water Hole : -, Artefact : -, Grinding Groove : -	Axe Grinding Groove,Open Camp Site,Water Hole/Well	2073
	Contact	**Recorders**	Liz Edmondson					**Permits**		
28-6-0008	Gwandoban;Weetaliba;	AGD	55	752500	6505000	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	**Recorders**	Unknown Author					**Permits**		
28-3-0039	Plantation;Premer;	AGD	55	780100	6515400	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	
	Contact	**Recorders**	Nungaroo LALC					**Permits**		

Report generated by AHIMS Web Service on 29/01/2026 for Andrew Crisp for the following area at Lat, Long From : -31.7439, 149.6059 - Lat, Long To : -31.4514, 150.1003. Number of Aboriginal sites and Aboriginal objects found is 55

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 32409 - Mod 3 ACHA # 3

Client Service ID : 1086608

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
28-3-0043	P-OS-2;	AGD	55	770530	6512890	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	**Recorders**	Central West Archaeological and Heritage Services Pty Ltd					**Permits**		
28-6-0026	KP-ST-1	AGD	55	758900	6496100	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	3111
	Contact	**Recorders**	Central West Archaeological and Heritage Services Pty Ltd					**Permits**		
29-4-0046	BUNDELLA CREEK 1	AGD	56	220620	6490990	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Kath Sale					**Permits**		
24-6-0033	Southwest Poopelloe Lake AS5	GDA	55	778458	6487910	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Australian Heritage Services Pty Ltd,Australian Heritage Services Pty Ltd,Mr.Andre					**Permits**		
28-6-0047	Mount Manara A	AGD	55	776159	6502382	Open site	Valid	Hearth : 5, Artefact : 1		
	Contact	**Recorders**	Miss.Rebeeca Ogden-Brunell					**Permits**		
28-6-0050	BBS; Walhallow LALC; Pandora Pass Rd1	AGD	55	775965	6491620	Open site	Valid	Modified Tree (Carved or Scarred) : 1		98931
	Contact	**Recorders**	Archaeological Surveys & Salvage ,Walhallow LALC - BBS survey team					**Permits**		
29-1-0028	P-OS-1;Tbinkey;	AGD	56	221400	6516140	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	**Recorders**	Central West Archaeological and Heritage Services Pty Ltd					**Permits**		
28-6-0054	Liverpool Range LU10-L1	GDA	55	778664	6487168	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Doctor.Julie Dibden,NSW Archaeology Pty Ltd					**Permits**		
29-4-0051	Coolah Tops Coxsâ€™ Ck Sawmill Artefact Scatter	GDA	56	217068	6485353	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Darkinjung LALC - Wyong,Ms.Sharon Hodgetts					**Permits**		
29-4-0052	Coolah Tops Mullian Trail Artefact	GDA	56	217162	6488559	Open site	Valid	Artefact : -		
	Contact	**Recorders**	Darkinjung LALC - Wyong,Ms.Sharon Hodgetts					**Permits**		
28-6-0069	Upland Basin	GDA	55	780399	6488220	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					**Permits**		
28-6-0070	Snake Creek	GDA	55	775122	6487004	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					**Permits**		
28-6-0071	Coolaburragundy River 4	GDA	55	775169	6487076	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					**Permits**		
28-6-0072	Coolaburragundy River 3	GDA	55	774696	6486560	Open site	Valid	Potential Archaeological Deposit (PAD) : -		

Report generated by AHIMS Web Service on 29/01/2026 for Andrew Crisp for the following area at Lat, Long From : -31.7439, 149.6059 - Lat, Long To : -31.4514, 150.1003. Number of Aboriginal sites and Aboriginal objects found is 55

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 32409 - Mod 3 ACHA # 3

Client Service ID : 1086608

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0073	Coolaburragundy River 2	GDA	55	773650	6484407	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0074	Gundare Creek 2	GDA	55	769685	6488105	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0075	Diana Creek	GDA	55	769971	6486128	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0076	Mooki Creek	GDA	55	770266	6484626	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0081	LRWF AS 2	GDA	55	780296	6488366	Open site	Valid	Artefact : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0082	LRWF CS 1	GDA	55	773646	6485776	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
28-6-0083	LRWF ST1	GDA	55	767703	6488869	[redacted] site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick					Permits		
29-4-0058	Gananny IA1	GDA	56	221596	6502999	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		

**** Site Status**

Valid - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.

Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground

Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified

Report generated by AHIMS Web Service on 29/01/2026 for Andrew Crisp for the following area at Lat, Long From : -31.7439, 149.6059 - Lat, Long To : -31.4514, 150.1003. Number of Aboriginal sites and Aboriginal objects found is 55

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

Appendix B

Consultation

B.1
Correspondence with Heritage NSW (9 January 2025)

Outlook

RE: 32409 Liverpool Range Wind Farm Modification 3: Continued utilisation of existing RAP groups established during Modification 1

From [redacted]
Date Mon 9/1/2025 9:29 AM
To [redacted]
Cc [redacted]

You don't often get email from alison.lamond@dcceew.nsw.gov.au. Learn why this is important

*This message originated from outside of Umwelt - **BE CAUTIOUS** opening any link or attachment.*

Hello Andrew
Heritage NSW has no issues with the proposal to continue consultation with the existing RAP group maintained through the Liverpool Range Wind Farm Windfarm SSD-6696 Modification 1 for the assessment of the proposed Modification 3.
Please include this email as part of the ACHA supporting documentation.
Regards

[redacted]
Department of Climate Change,
Energy, the Environment and Water

[redacted]

dcceew.nsw.gov.au

Level 3, 6 Stewart Ave
Newcastle West NSW 2303

Locked Bag 1002, Dangar NSW 2309

Working days Monday to Friday, 9:00am - 5:00pm

I acknowledge the traditional custodians of the land and pay respects to Elders past and present. I also acknowledge all the Aboriginal and Torres Strait Islander staff working with NSW Government at this time.

Please consider the environment before printing this email.

From: [redacted]
Sent: Monday, 1 September 2025 9:08 AM
To: [redacted]
Cc: [redacted]
Subject: 32409 Liverpool Range Wind Farm Modification 3: Continued utilisation of existing RAP groups established during Modification 1

Good morning Alison,

Umwelt (Australia) Pty Ltd (Umwelt) has been engaged by Tilt Renewables Australia Pty Ltd (Tilt Renewables) as trustee for Liverpool Range Wind Farm Project Trust (the Proponent), to undertake an Aboriginal Cultural Heritage Assessment (ACHA) to support a Modification Application (Mod-3 Application) to the previously approved Liverpool Range Wind Farm (LRWF) ('the Project') State Significant Development (SSD 6696 – as modified).

Please see the attached letter outlining our proposed continued utilisation of the existing RAP groups established during Modification 1. Feel free to give me a call to discuss any aspect of this.

Kind regards,

Andrew Crisp
Senior Archaeologist

Umwelt (Australia) Pty Limited
[redacted]

www.umwelt.com.au

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Please consider the environment before printing this email

B.2
Invitation to Attend Survey: Additional Road Upgrade Works (4 October 2024)

Outlook

RE: Liverpool Range Wind Farm - Geotechnical Investigation and Additional Road Upgrade Works - Survey

From [redacted]

Date Mon 10/14/2024 11:04 AM

To [redacted]

Cc [redacted]

Good morning all,

Thank you to those of you who have already confirmed their availability. Please do so if you haven't yet had the change. I'll need to lock in the survey team by COB Wednesday 16th October and provide the team with online induction material.

Confirming Survey will be **starting on Tuesday 22nd October** and will run for at least 2 days (Tuesday-Wednesday).

We will be based in Coolah and heading out from there each morning.

Rather than long pedestrian transects, this survey program will be focusing on a reasonable number of distinct areas adjacent to existing roadways. The general methodology is to meet in Coolah, load up everyone into the two Umwelt vehicles and drive in convoy to the locations. We'll stop at each location, hop out, inspect, make a determination/record any new sites, then proceed to the next location by vehicle. There'll be a lot of driving and minimal long treks across country which is a slight change for this Project.

I'll provide further detail in the coming days.

Kind regards,

Andrew Crisp
Senior Archaeologist

Umwelt (Australia) Pty Limited
[redacted]

www.umwelt.com.au

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From: Andrew Crisp
Sent: Friday, October 4, 2024 2:58 PM
To: [redacted]
Cc: [redacted]
Subject: Liverpool Range Wind Farm - Geotechnical Investigation and Additional Road Upgrade Works - Survey

Good afternoon all,

This email is to inform you that there will likely be two (2) days of site inspection planned for the week of 21 October 2024 within the Liverpool Range Wind Farm Project Area.

The site inspection is related to proposed geotechnical investigations and additional road upgrade works not previously assessed.

I will be providing further information next week but, in the meantime, can you please check your calendars and let me know if there are any major scheduling conflicts?

Thank you in advance and I look forward to working with you again.

Kind regards,

Andrew Crisp
Senior Archaeologist

Umwelt (Australia) Pty Limited
[redacted]

www.umwelt.com.au

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B.3
Invitation for RAP Review of Draft Addendum ACHA: Additional Road Upgrade Works (5 February 2025)

Outlook

22999 - Liverpool Range Windfarm - Draft ACHA for RAP Review - Additional Road Upgrades

From [redacted]

Date Wed 2/5/2025 3:24 PM

To [redacted]

Cc

Good afternoon all,

Thank you again for your ongoing involvement in this expansive project.

Please follow the link below to the Draft *Liverpool Range Windfarm Addendum ACHA – Additional Road Upgrade Works* for your review and comment.

Draft ACHA supplied to RAPs - 5 February 2025

Reach out if you cannot access the link or document.

It would be greatly appreciated if any comments be supplied in writing to this email by **COB Wednesday 5th March 2025** (28 days from today).

Kind regards,

Andrew Crisp
Senior Archaeologist

Umwelt (Australia) Pty Limited
Phone: [redacted]

www.umwelt.com.au

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Please consider the environment before printing this email

B.4
Invitation for RAP Review of Draft Survey Methodology: Mod-3 ACHA (8 October 2025)

From: [redacted]
To:
Subject: 32409 - Liverpool Range Windfarm - Modification 3 - Draft ACHA Methodology and Fieldwork document
Date: 08 October 2025, 15:34:12
Attachments: 4e91c931-a8bc-4780-b8c1-4a470042b38b.png
d3dba4f6-6dd8-4914-bb51-d6bf7a3408e4.png
e89ae804-2dca-4aae-969f-d2f8749b8c23.png
b00b2764-6fbc-49d7-a018-db01c868dd00.png

Good afternoon,

Thank you all for your ongoing involvement in the Liverpool Range Windfarm Project. This email is provided to inform you, as a Registered Aboriginal Party, of the SSD-6696 Modification 3 and provide you with a copy of the associated Draft Aboriginal Cultural Heritage Assessment Methodology and fieldwork document (linked below).

RAPs - Mod 3 Draft ACHA Methodology and Fieldwork Doc

In accordance with the Consultation Requirements, we ask that your group provides comments on the draft methodology by no later than close of business **5 November 2025** (28 days from today).

Comments regarding the draft methodology can be provided verbally, or in writing to:

Andrew Crisp
Senior Archaeologist, Umwelt
E | acrisp@umwelt.com.au
[redacted]

Proponents contact details are:
Lisa Simonsen
Environment and Development Planner – Tilt Renewables
[redacted]

Kind regards,

Andrew Crisp
Senior Archaeologist

[redacted]

G

From: [redacted]
To: [redacted]
[redacted]
Subject: 32409 - Liverpool Range Windfarm - Modification 3 - Draft ACHA Methodology and Fieldwork document
Date: 08 October 2025, 14:59:02
Attachments: 4e91c931-a8bc-4780-b8c1-4a470042b38b.png
d3dba4f6-6dd8-4914-bb51-d6bf7a3408e4.png
e89ae804-2dca-4aae-969f-d2f8749b8c23.png
b00b2764-6fbc-49d7-a018-db01c868dd00.png

Good afternoon everyone,

Thank you all for your ongoing involvement in the Liverpool Range Windfarm Project. This email is provided to inform you, as a Registered Aboriginal Party, of the SSD-6696 Modification 3 and provide you with a copy of the associated Draft Aboriginal Cultural Heritage Assessment Methodology and fieldwork document (linked below).

RAPs - Mod 3 Draft ACHA Methodology and Fieldwork Doc

In accordance with the Consultation Requirements, we ask that your group provides comments on the draft methodology by no later than close of business **5 November 2025** (28 days from today).

Comments regarding the draft methodology can be provided verbally, or in writing to:

Andrew Crisp
[redacted]

Proponents contact details are:
Lisa Simonsen
[redacted]

Kind regards,

Andrew Crisp
Senior Archaeologist

[redacted]

B.5
Invitation for RAP Review of Draft Mod-3 ACHA (6 March 2026)

Brent Koppel

From: [redacted]
Sent: Friday, 6 March 2026 6:44 PM
To: [redacted]
Cc: [redacted]
Subject: 32409 - Liverpool Range Windfarm - Modification 3 - Draft ACHA for review

Good afternoon,

Thank you for your continued interest and involvement in the Aboriginal cultural heritage investigations of the Liverpool Range Wind Farm project.

Umwelt, on behalf of Tilt Renewables, and in accordance with Sections 4.4.2 and 4.4.3 of *the Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010), invites you to review and provide comment on the draft Aboriginal Cultural Heritage Assessment (ACHA) of the Liverpool Range Wind Farm Mod-3 project. Umwelt requests that you provide a response by **3 April 2026**.

As the ACHA file is too large to attach to this email, a link to the file can be found here: 32409 - Liverpool Range Wind Farm Mod-3 - ACHA for RAP review.

If you have any issues in accessing the file, please let me know as soon as possible.

Please note, the draft ACHA provided in this email does not include the full consultation records relating to the Project. A copy of the consultation records can be provided upon request.

If you have any comments or questions regarding the draft report, please reply to this email or phone me using the number provided below.

Kind regards,

Brent

Brent Koppel
Archaeologist

[redacted]

From: [redacted]
Sent: Monday, 15 June 2026 4:57 PM
Subject: 32409 - Liverpool Range Windfarm - Modification 3 - Draft ACHA for review

Hi Paul,

Umwelt, on behalf of Tilt Renewables, and in accordance with Sections 4.4.2 and 4.4.3 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010), invites you to review and provide comment on the Liverpool Range Windfarm - Modification 3 draft ACHA. As the ACHA file is too large to attach to this email, a link to the file can be found here: 32409_R09_Mod3ACHA_V2.pdf. If you have any issues in accessing the file, please let me know.

Please be aware, earlier this year in March my colleague Brent Koppel issued the report to RAPs, but due to an unfortunate administrative error, it appears your email address was omitted from the list. We sincerely apologise for the error.

If you have any comments or questions regarding the draft report, please reply to this email.

Kind regards,

Luke Wolfe
Principal Archaeologist

[redacted]

From: Luke Wolfe [redacted]
Sent: Monday, 15 June 2026 4:57 PM
Subject: 32409 - Liverpool Range Windfarm - Modification 3 - Draft ACHA for review

Hi Paul,

Umwelt, on behalf of Tilt Renewables, and in accordance with Sections 4.4.2 and 4.4.3 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010), invites you to review and provide comment on the Liverpool Range Windfarm - Modification 3 draft ACHA. As the ACHA file is too large to attach to this email, a link to the file can be found here: 32409_R09_Mod3ACHA_V2.pdf. If you have any issues in accessing the file, please let me know.

Please be aware, earlier this year in March my colleague Brent Koppel issued the report to RAPs, but due to an unfortunate administrative error, it appears your email address was omitted from the list. We sincerely apologise for the error.

If you have any comments or questions regarding the draft report, please reply to this email.

Kind regards,

Luke Wolfe
Principal Archaeologist

[redacted]