Appendix T
Contamination assessment

Billabong Creek Regulators

Contamination Assessment

NSW Department of Climate Change, Energy, the Environment and Water

September 2024



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The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report (refer section 1 of this report). GHD disclaims liability arising from any of the assumptions being incorrect.

Executive Summary

Overview

NSW Department of Climate Change, Energy, the Environment and Water (NSW DCCEEW) is proposing to replace two existing weirs along Billabong Creek with new regulators (the proposal). The two existing weirs to be demolished are Hartwood Weir and Wanganella Weir. These structures are situated on Billabong Creek within the Yanco Creek system in south-west NSW (refer Figure 1.1).

These weirs were built in the early 20th century and have been used to regulate flows through Billabong Creek, create weirs pools for irrigation and, in the case of Wanganella Weir, provide town water supply. The weirs are currently in states of declining condition and functionality, and are barriers to the movement of fish through the creek. Their condition limits their ability to regulate flows through the Yanco Creek system and leads to inefficiencies in how water is delivered to the environment and irrigators.

The new regulators would be fully automated and remotely operated meaning that operators could control the delivery of water more efficiently. The proposal is needed to improve the operator's ability to deliver the right amount of water to the right place at the right time. The new regulators would also feature fishways to support fish movement past the new structures. WaterNSW would own and operate the new regulators.

Purpose

This report has been prepared by GHD Pty Ltd (GHD) as part of the EIS for the proposal. The EIS has been prepared to accompany the application for approval of the proposal and addresses the environmental assessment requirements of the Secretary of the Department of Planning and Environment (the SEARs), issued on 8 December 2022.

The purpose of this report is to assess potential contamination impacts from the construction and operation of the proposal, and where required, identify feasible and practical mitigation and management measures. This report will address items 20 and 21 of the SEARs.

Scope

The scope of work required to undertake this contamination assessment included the following:

– A desktop review of existing information pertaining to the study areas. Tasks included but were not limited to, the following:
  - review of historical aerial photography of the proposal area to assess for historical land uses that may have the potential to cause contamination
  - review of topographical, soil, geological and hydrogeological maps of the area for assessment of baseline environmental conditions and potential contaminant migration pathways
  - a search for registered groundwater boreholes in the proposal area
  - a search of relevant environmental databases and public registers for the study area and surroundings.
– Preparation of this Stage 1 preliminary site investigation (PSI) to characterise the contamination status and potential impacts for the proposal. The report was prepared in accordance with the guidelines outlined in section 2.1. The report includes:
  - findings of the contamination assessment
  - details on potential areas of contamination concern that could be present at the site
  - a preliminary Conceptual Site Model (CSM)
  - recommendations for further assessment
  - mitigation and management measures for potential contamination impacts.

Potential contamination sources

Based on the desktop review, the following potential contamination sources were identified:

– disturbance of contamination from existing and future site activities
– potential use of uncontrolled fill during historical development of the site
– pesticides and herbicides from historical land use
– asbestos and heavy metal (lead) contamination from the existing infrastructure and buildings at the site
– Wanganella Landfill adjacent to the proposed Wanganella flood bypass channel and access tracks.

Conclusions

The findings of assessment, indicate that there is potential for contamination associated with the Wanganella Landfill to impact the proposal construction and operation in the vicinity of the Wanganella flood bypass channel. A contamination specific site inspection and intrusive field investigations have not been completed to consolidate these findings. As such the potential for contamination to be present at the landfill cannot be ruled out.

The assessment findings indicate that it is unlikely that there is widespread and elevated contamination in soils, groundwater and surface water associated with liberation of hazardous materials from existing weir infrastructure, potential use of uncontrolled fill, pesticide and herbicide use, and heavy metal contamination from existing infrastructure., Contamination specific site inspections and/or intrusive field investigations have not been completed to consolidate the findings. As such the potential for contamination to be present from these sources cannot be ruled out.

Contaminated land specific site inspections and/or targeted field investigations (as informed by a field inspection), would consolidate the conceptual understanding of contamination risks/impacts further and facilitate refinement of construction based human and environmental risk/impact and waste management.

The assessment findings indicate that there is potential for construction and operation activities potential to release contamination to the surrounding environment resulting in exposure to human and environmental receptors. This may occur through spills and leaks such as from equipment.

With the current conceptual understanding of the proposal regulator sites, the following potentially completed source-pathway-receptor linkages were identified:

– ingestion, inhalation and/or dermal contact with historically contaminated soil, groundwater, and surface water by human and ecological receptors on the proposal site
– migration of historical contamination, disturbed by construction and in groundwater and/or surface water to ecological and recreational receptors in Billabong Creek
– exposure of human health receptors on-site and off-site from fibres, such as asbestos, liberated from historical site structures that are disturbed/demolished during construction (demolition) and/or operation
– exposure of human health and ecological receptors (onsite and off-site) associated with spills or leaks to soil, sediment, surface water or groundwater during construction and operation of the proposal
– exposure of human health and ecological receptors to leachate and ground gas migrating from Wanganella Landfill to the Wanganella bypass channel excavations and surface water.

The seepage of leachate through potentially unsealed landfills and the migration of vapours / gases at Wanganella Landfill would need to be managed and/or investigated further.

It is expected that the remainder of these impacts can be effectively managed with the provision of appropriate procedures within a CEMP and/or OEMP, as outlined in section 6.

Recommendations

GHD recommends the following:

– construction and operation management measures should be implemented to ensure minimal contamination impact resulting from the proposal, including the development of a construction and operational environmental management plan, a remediation action plan (if contamination is identified), and an environmental monitoring program for the site as outlined in section 6.
– development of a groundwater and ground gas management plan as part of construction management documents for works within the vicinity of the Wanganella Landfill.

This report is subject to, and must be read in conjunction with, the limitations set out in section 1.6 and the assumptions and qualifications contained throughout the Report.

Glossary

Term	Description
Anabranch	A section of a river or stream that diverts from the main channel of the watercourse and rejoins downstream.
Clearing area	This is the area required to construct the proposed infrastructure. Within this area it is assumed that all vegetation would be removed, including trees and ground cover vegetation. Borrow pits also include a clearing area. However this is a conservative assumption and contractors would be encouraged to avoid removal where they can (through proposed mitigation measures).
Commonwealth Environmental Water Holder	The Commonwealth Environmental Water Holder is a statutory position established under the *Water Act 2007* (Cwth) responsible for managing the Commonwealth's environmental water holdings. These water holdings are used to protect or restore environmental assets of the Murray-Darling Basin.
Construction activity zone	These areas are locations outside of the 'clearing area' that would be used for construction purposes e.g., laydown, site sheds, parking. It is assumed topsoil will need to be removed / cleared, with some re-grading to create level areas with grubbing and clearing of small shrubs /grasses. Trimming of trees may be required. Tree removal would not occur in this zone.
Cumulative impacts	The combined impacts of the proposal on a matter with other relevant future projects.
Disturbance area	The disturbance area includes all locations where the proposal directly impacts the land surface or water body. This includes clearing areas, construction activity zones, access tracks and power supply routes.
Efficiency measure	Provide more water for the environment by making water delivery systems for irrigation more efficient. This can include replacing or upgrading on-farm irrigation, or lining channels to reduce water losses within an irrigation network.
Entitlement	The volume of water authorised to be taken and used by an irrigator or water authority; includes bulk entitlements, environmental entitlements, water rights, sales water and surface-water and groundwater licenses.
Environmental flow	Any river flow pattern provided with the intention of maintaining or improving river health.
Fish passage	The ability of fish or other aquatic species to move through an aquatic system.
Fishway	Structures placed on or around constructed barriers (such as dams or weirs) to give fish the opportunity to move past the barrier.
The proposal	The construction and operation of the two regulators and supporting infrastructure.
The proposal site	The footprint that would be directly affected by construction and the location of operational infrastructure.
Regulator	A gated structure used to actively manage or control the amount of water that flows from one location to another.
Regulated	A water system in which water is stored or flow levels are controlled through the use of structures such as dams and weirs.
Rip rap	A layer of large stones that protects soil from erosion in areas of high or concentrated flows.
Sustainable diversion limit adjustment mechanism	A mechanism under the Murray-Darling Basin Plan that allows the sustainable diversion limit to be adjusted under certain circumstances.
Sheet pile walls	Pre-fabricated sections of steel piles driven into the ground to retain earth, water, or other fill material.
Study area	The area investigated for this assessment which includes the proposal site and surrounding area, with the potential to be directly or indirectly affected by the proposal.
Weir	A low barrier or dam that is built across a watercourse and is designed to store water, control or alter the flow of water in a creek.

Abbreviations

Abbreviations	Definitions
AHD	Australian height datum
BTEX	Benzene, toluene, ethylbenzene and xylene
CEMP	Construction Environmental Management Plan
CEWO	Commonwealth Environment Water Office
CLM Act	*Contaminated Land Management Act 1997* (NSW)
COPC	Contaminants of potential concern
CSM	Conceptual site model
Cwth DCCEEW	Commonwealth Department of Climate Change, Energy, the Environment and Water
DCCEEW	NSW Department of Climate Change, Energy, the Environment and Water (formerly Water Infrastructure NSW)
DPE	NSW Department of Planning and Environment, now renamed as the Department of Planning, Housing and Infrastructure
DPIE	NSW Department of Planning, Industry and Environment (formerly known as NSW Department of Planning and Environment)
EIS	Environmental impact statement
EP&A Act	*Environmental Planning and Assessment Act 1979* (NSW)
EPBC Act	*Environment Protection and Biodiversity Conservation Act 1999* (Cwth)
FM Act	*Fisheries Management Act 1994* (NSW)
GDE	Groundwater Dependent Ecosystems
GL	Gigalitre
HGL	Hydrogeological Landscape
km^2	Square kilometres
LEP	Local environmental plan
LGA	Local government area
m bgl	Metres below ground level
mm	Millimetre
mg/L	Milligrams per litre
NSW	New South Wales
NSW EPA	New South Wales Environment Protection Authority
OCP	Organochlorine pesticide
OPP	Organophosphorus pesticide
PAH	Polycyclic aromatic hydrocarbons
PCB	Polychlorinated biphenyls
PFAS	Per- and poly-fluoroalkyl substances
POEO	Protection of the Environment Operations
RAP	Remediation Action Plan
SCADA	Supervisory Control and Data Acquisition
SDLAM	Sustainable diversion limit adjustment mechanism

Abbreviations	Definitions
SEARs	Secretary's environmental assessment requirements
SEPP	State environmental planning policy
SVOC	Semi-volatile organic compounds
TRH	Total recoverable hydrocarbon
VOC	Volatile organic compounds
WINSW	Water Infrastructure New South Wales, now renamed as NSW Department of Climate Change, Energy, the Environment and Water

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Appendices

Appendix A Lotsearch report

1. Introduction

1.1 Overview

NSW Department of Climate Change, Energy, the Environment and Water (NSW DCCEEW) is proposing to replace two existing weirs along Billabong Creek with new regulators (the proposal). The two existing weirs to be demolished are Hartwood Weir and Wanganella Weir. These structures are situated on Billabong Creek within the Yanco Creek system in south-west NSW (refer Figure 1.1).

These weirs were built in the early 20th century and have been used to regulate flows through Billabong Creek, create weirs pools for irrigation and, in the case of Wanganella Weir, provide town water supply. The weirs are currently in states of declining condition and functionality, and are barriers to the movement of fish through the creek. Their condition limits their ability to regulate flows through the Yanco Creek system and leads to inefficiencies in how water is delivered to the environment and irrigators.

The new regulators would be fully automated and remotely operated meaning that operators could control the delivery of water more efficiently. The proposal is needed to improve the operator's ability to deliver the right amount of water to the right place at the right time. The new regulators would also feature fishways to support fish movement past the new structures. WaterNSW would own and operate the new regulators once constructed.

The proposal is subject to environmental and planning approvals in accordance with the *NSW Environmental Planning and Assessment Act 1979* (EP&A Act) and the *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The proposal is State Significant Infrastructure (SSI), and the Minister for Planning is the approval authority. An environmental impact statement (EIS) is required to accompany the application for approval of the proposal.

1.2 Purpose and scope of this report

This report has been prepared by GHD Pty Ltd (GHD) as part of the EIS for the proposal. The EIS has been prepared to accompany the application for approval of the proposal and addresses the Secretary's Environmental Assessment Requirements (the SEARs), issued on 17 October 2024.

The purpose of this report is to assess potential contamination impacts from the construction and operation of the proposal, and where required, identify feasible and reasonable mitigation and management measures. This report will address items 20 and 21 of the SEARs (see section 1.5).

1.3 Structure of this report

The report is structured as follows:

– Section 1 – provides an introduction to the proposal and the assessment
– Section 2 – describes the methodology for the assessment
– Section 3 – describes the existing environmental and contamination conditions
– Section 4 – identifies the potential contamination sources, receptors, and pathways
– Section 5 – assesses the potential contamination impacts of the construction and operation of the proposal
– Section 6 – provides measures to mitigate or manage potential adverse contamination impacts
– Section 7 – provides conclusions and recommendations.



Figure 1.1 - Location of the proposal

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1.4 Summary of the proposal

1.4.1 Location

The proposal is located on Billabong Creek, which is part of the Yanco Creek system in south-west New South Wales (NSW). The Yanco Creek system forms a part of the Murray-Darling Basin. An overview of the location of the proposal is shown in Figure 1.1.

The proposal is located within the local government area (LGA) of Edward River.

1.4.2 Key features of the proposal

As discussed in section 1.1, the proposal involves replacing two existing weirs along Billabong Creek with new regulators including fishways.

The core structure of the regulators is similar and would include:

- concrete piers with maintenance bulkhead slots
- automated layflat gates across the crest of the structure to assist with flow management and downstream fish passage
- a low turbulence 'keyhole' type vertical slot fishway with allowances for variable headwater to provide upstream fish passage
- automated sidewinder gates within the vertical slot fishway to allow for variable headwater conditions
- fixed concrete crests on the opposite side of the gates to the vertical slot fishway
- concrete apron downstream of the structure
- concrete wingwalls upstream and downstream of the structure
- access from a trafficable deck for maintenance (Hartwood Regulator only)
- pedestrian walkway access across Wanganella Regulator structure to facilitate housing of gate actuators and for maintenance
- crushed rock maintenance pads, access and turnaround areas adjacent to the structure
- rip rap and rock beaching upstream and downstream of structure for erosion protection
- control house
- sheet pile cut-off walls beneath the structure
- fencing of the structures to prevent public access
- SCADA control system.

An indicative layout of a regulator is shown in Figure 1.2. This example is of a five gate regulator with a fish passage and trafficable deck for maintenance vehicles.



Figure 1.2 Indicative layout of a regulator

The proposal would also involve the following elements:

– Power supply to the regulators would be provided by a mix of underground and overhead electricity cables connecting the structures to the grid.
– Access to the regulators would require permanent tracks for maintenance and some additional tracks to support construction only. Track upgrades include a new drainage culvert at Hartwood.
– The existing Forest Creek block bank, associated with the Hartwood Regulator, will be replaced with a similar earthen structure to the existing, including two concrete sills to define the upstream and downstream top of bank and armoured with rock beaching and crushed rock for erosion protection.
– A flood bypass channel would be constructed to reduce potential upstream flooding impacts from the Wanganella Regulator. The channel would enable flood waters to drain between the billabongs in the Wanganella Reserve during flood events. It would be 85 metres long, around 40.0 metres wide and 1.7 metres deep and located north of the Wanganella Landfill. Once completed, the channel sides and base would be natural and vegetated with appropriate local native species.
– An existing borrow pit on private land at lot 56 / DP756322 near Hartwood Weir would be extended to provide material for the construction of Hartwood Regulator and Forest Creek block bank.

The location of the existing weirs, proposed infrastructure, and the indicative proposal footprints are shown on Figure 1.3 and Figure 1.4.

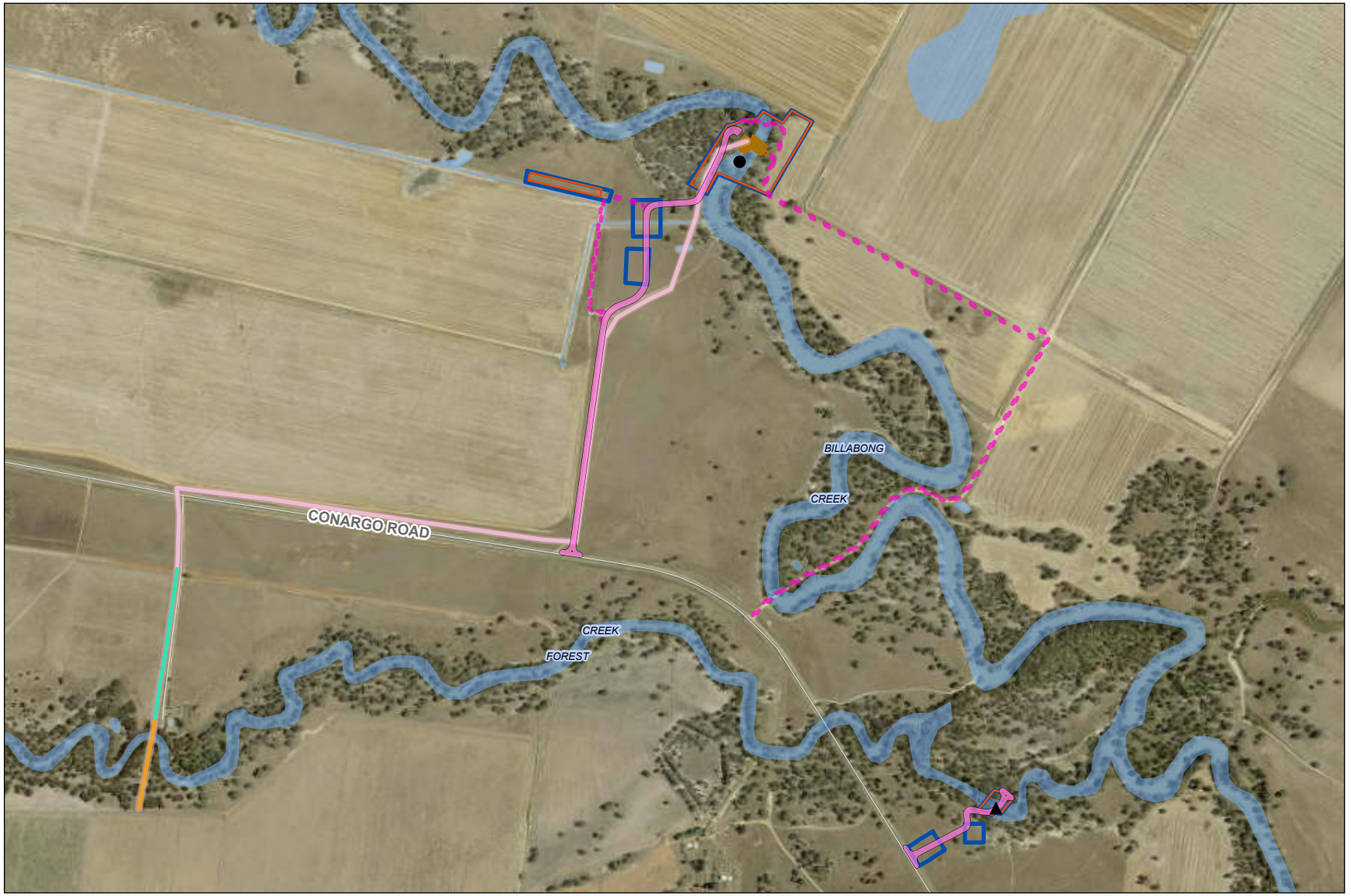
1.4.3 Timing

Construction of the proposal is anticipated to start in 2025 and be completed by 2026. The construction period is anticipated to be around 18 months. Construction would pause during periods of high flow.

1.4.4 Operation

The proposal would be operated in accordance with the operating requirements established with the new asset owner and developed in consultation with key stakeholders. These operating requirements, known as the Yanco Creek System Operations Plan. The plan would take into account the regulation requirements at each regulator, as well as constraints such as limits to rates of rise and fall to accommodate fish breeding requirements.

The proposed regulators would provide greater control of water levels which would be operated to meet environmental and water supply objectives. WaterNSW would own and operate the new regulators.



Proposal

- Proposed Hartwood Regulator
- Construction Activity Zone
- Clearing Area

Power Supply

- Power Supply
- Power Supply (Existing aboveground)
- Power Supply (to run underground)
- Power Supply Buffer

Access tracks

- Construction Only
- Construction plus O&M

Existing features

- Existing Weir
- Existing Block Bank
- Main Road
- Water Bodies

N

GDA2020 MGA Zone 55

A4 Scale: 1:16,000

0 100 200 300 400

Metres

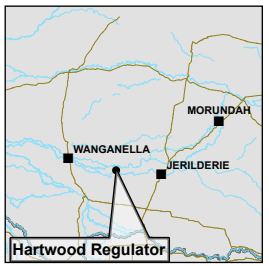
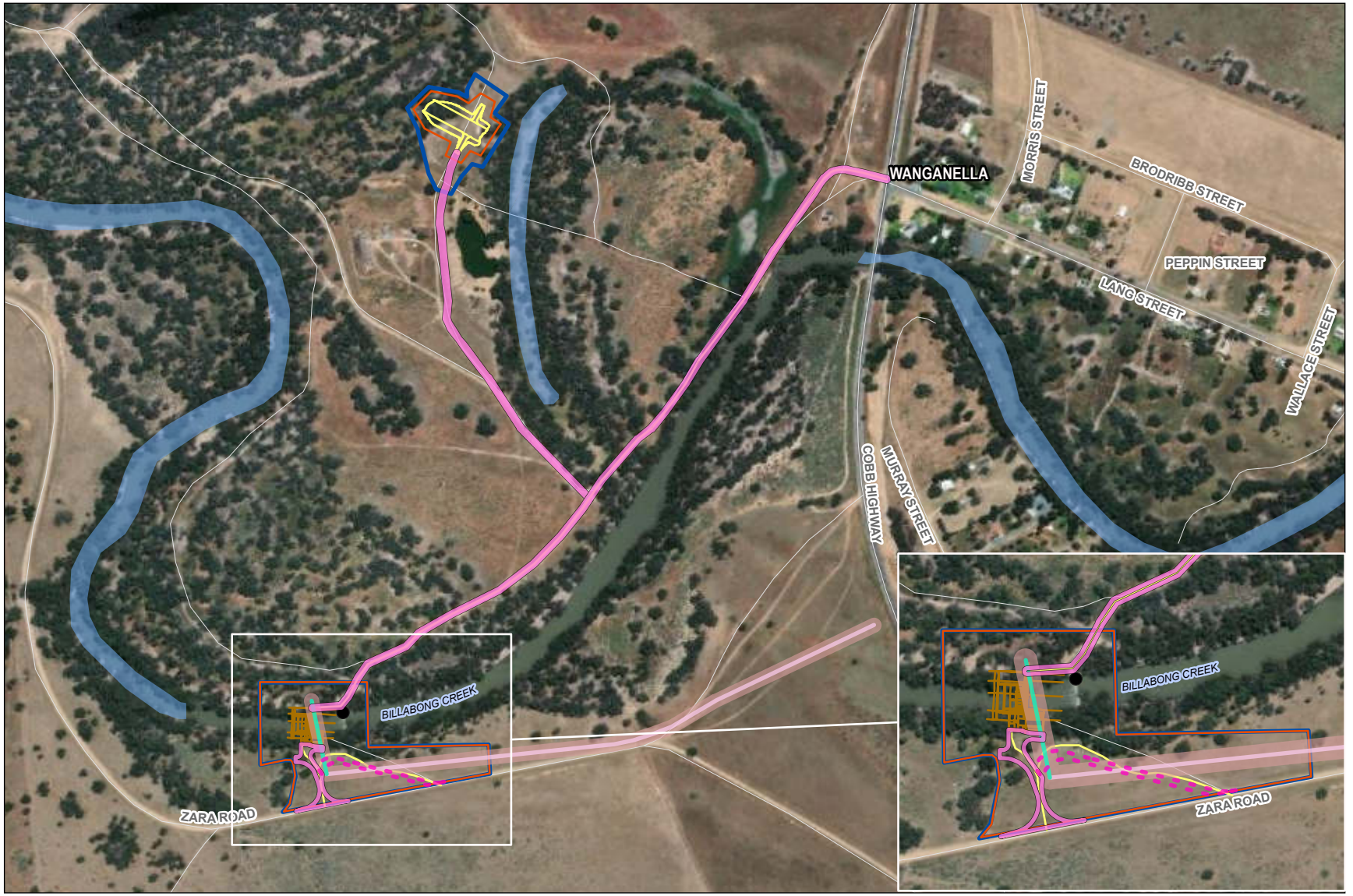


Figure 1.3 Location of Hartwood Regulator and Proposed Works

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Proposal

- Proposed Wanganella Regulator
- Wanganella Bypass Channel
- Construction Activity Zone
- Clearing Area

Power Supply

- Power Supply
- Power Supply (Existing aboveground)
- Power Supply (to run underground)
- Power Supply Buffer

Access tracks

- Construction Only
- Construction plus O&M

Existing features

- Existing Weir
- Roads
- Water Bodies

N

GDA2020 MGA Zone 55

A4 Scale: 1:8,000

0 75 150 225 300

Metres

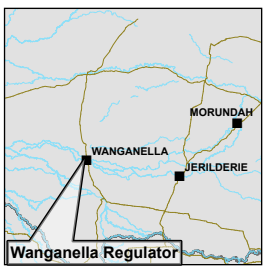


Figure 1.4 Location of Wanganella Regulator and Proposed Works

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1.5 Secretary's environmental assessment requirements

This contamination assessment has been prepared to address the Secretary's Environmental Assessment Requirements (SEARs). Table 1.1 outlines the requirements relevant to this assessment. The requirements in both the issued SEARs and the EPA Agency Letter required an assessment of site contamination and an assessment of acid sulfate soil (ASS) risk as outlined below. The assessment also considers requirements raised by the NSW Environmental Protection Authority.

Table 1.1 Relevant SEARs

Requirements	Where addressed in this report
Contamination	
20 The Proponent must provide an assessment of site contamination in accordance with the *Consultants Reporting on Contaminated Land: Contaminated Land Guidelines* (NSW EPA, 2020). If a preliminary site investigation (PSI) identifies that a Detailed Site Investigation (DSI) or other further assessments are required, this additional information should be provided as part of the assessment.	Sections 3, 4, 5 and 6
21 The Proponent must assess the risk of disturbing acid sulfate soils in accordance with the *Acid Sulfate Soil Manual (NSW Acid Sulfate Soil Management Advisory Committee 1998).*	Section 3

1.6 Assumptions

This report: has been prepared by GHD for NSW Department of Climate Change, Energy, the Environment and Water and may only be used and relied on by NSW Department of Climate Change, Energy, the Environment and Water for the purpose agreed between GHD and NSW Department of Climate Change, Energy, the Environment and Water as set out in section 1 of this report.

GHD otherwise disclaims responsibility to any person other than NSW Department of Climate Change, Energy, the Environment and Water arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

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The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

GHD has prepared this report on the basis of information provided by NSW Department of Climate Change, Energy, the Environment and Water and others who provided information to GHD (including Government authorities)], which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

2. Assessment approach and methodology

2.1 Legislative and policy context to the assessment

This section summarises the legislation, guidelines and/or policies driving the approach to the assessment. This contamination assessment has been completed with consideration of guidelines made or endorsed by the NSW EPA under Section 105 of the Contaminated Land Management Act, 1997, and guidelines required by the SEARs. These guidelines include the following key documents:

– Consultants Reporting on Contaminated Land: Contaminated Land Guidelines (NSW EPA, 2020)
– Acid Sulfate Soil Manual (NSW Acid Sulfate Soil Management Advisory Committee, 1998)
– Managing Land Contamination: Planning Guidelines – SEPP 55 Remediation of Land (Department of Urban Affairs and Planning, 1998)
– National Environment Protection (Assessment of Site Contamination) Measure (NEPM, 2013).

The Sampling Design Guidelines for Contaminated Land (NSW EPA, 2022) listed in the SEARs are not relevant to this contamination assessment as no sampling was undertaken during the investigation process.

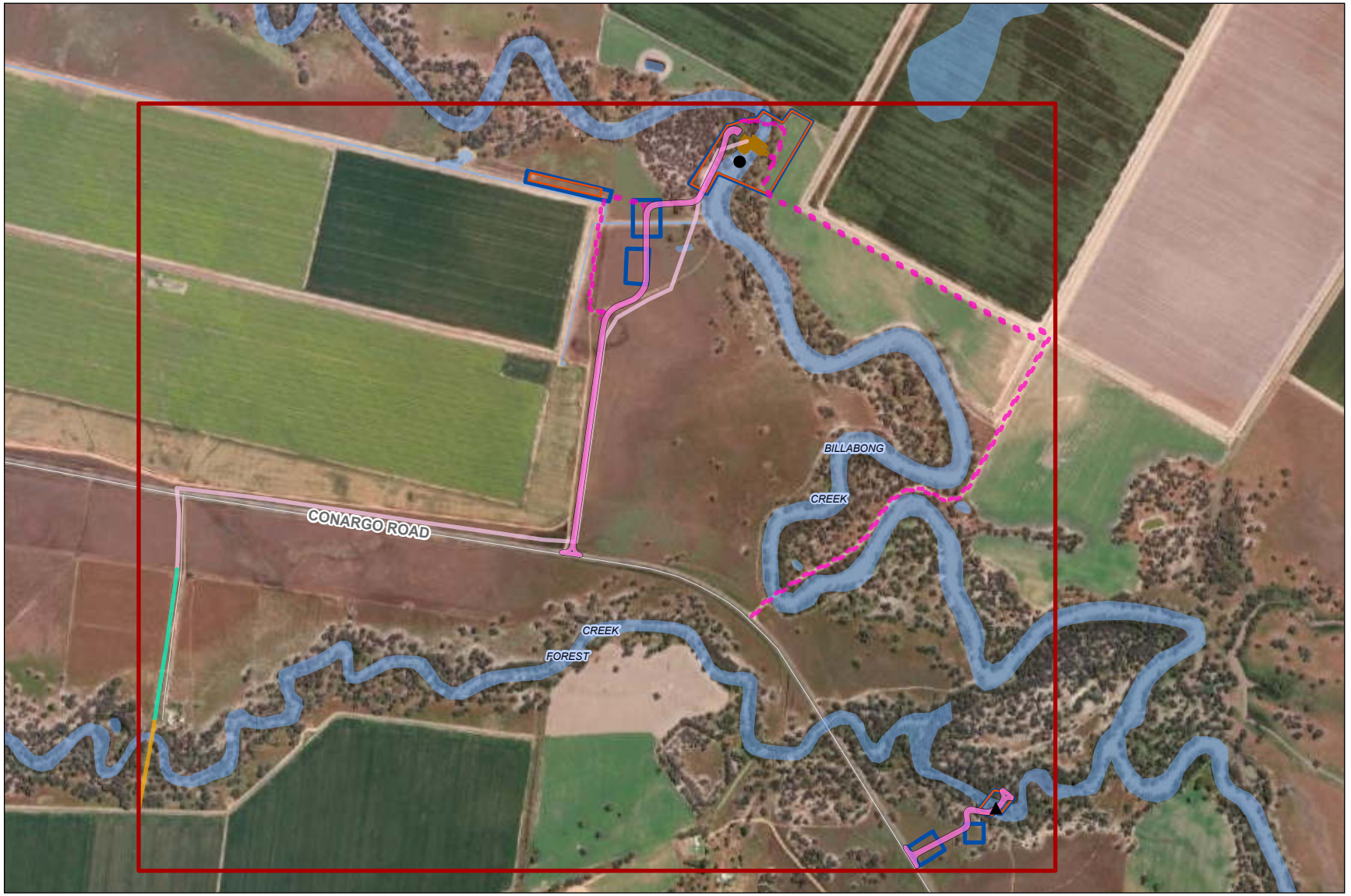
The SEARs requirements relevant to contamination and where these have been addressed in this report, are discussed in section 1.5.

2.2 Methodology

2.2.1 Study area

For the purposes of the assessment the construction footprint, operation footprint, and study area have been defined as follows:

– Proposal site – the area that would be directly affected by construction and the location of operational infrastructure, contractor activity zones, access tracks, and power supply routes, as indicated in Figure 1.3 and Figure 1.4.
– Study area – for the purposes of the contamination assessment the study areas are the respective areas surrounding the proposal sites as indicated in Figure 2.1 and Figure 2.2. These areas have been defined to facilitate the collation of environmental information, around the entirety of the proposal footprint of each regulator, within the Lotsearch reports (Appendix A). This has resulted in a minimum buffer distance for key environmental data around the proposal site of 500 metres.
– The location of the existing weirs, proposed infrastructure, and the indicative proposal footprints are shown on Figure 1.3 and Figure 1.4.



Proposal

- Study Area
- Proposed Hartwood Regulator
- Construction activity zone
- Clearing area

Power Supply

- Power Supply
- Power Supply (Existing aboveground)
- Power Supply (to run underground)

Access tracks

- Construction Only
- Construction plus O&M

Existing features

- Existing weir
- Existing block bank
- Main road
- Water bodies

N

GDA2020 MGA Zone 55

A4 Scale: 1:16,000

0 100 200 300 400

Metres

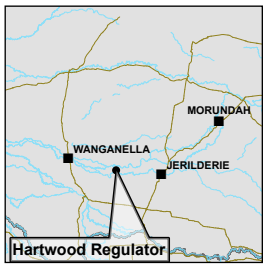


Figure 2.1 Hartwood Regulator contamination assessment study area

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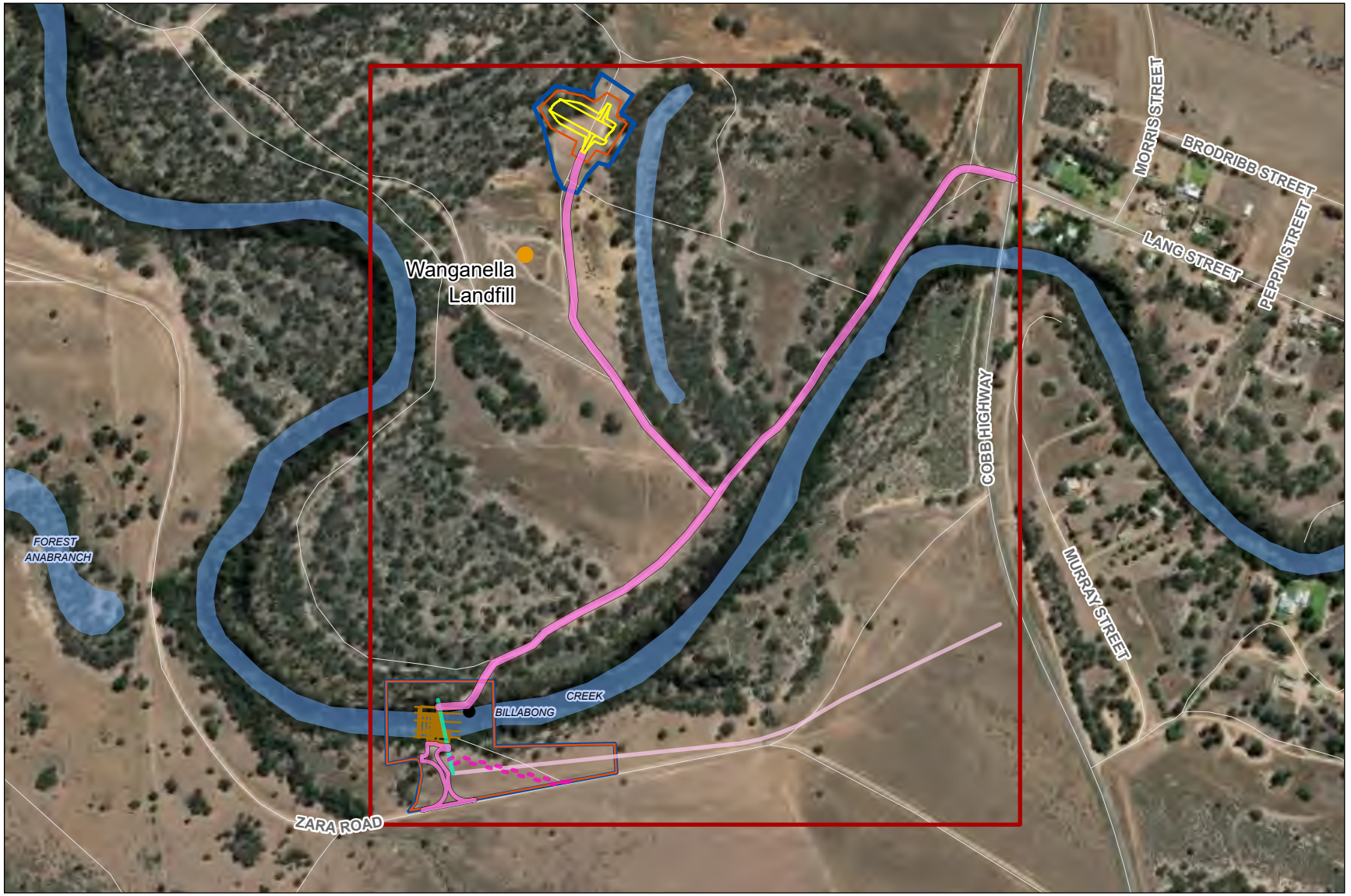


Figure 2.2 Wanganella Regulator contamination assessment study area

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2.2.2 Scope of work

The scope of work required to undertake this contamination assessment included the following:

– A desktop review of existing information pertaining to the study areas. Tasks included but were not limited to, the following:
  - procurement of Lotsearch report, which collated environmental and contamination information for the study areas and the surrounding environment
  - review of historical aerial photography of the proposal area to assess for historical land uses that may have the potential to cause contamination
  - review of topographical, soil, geological and hydrogeological maps of the area for assessment of baseline environmental conditions and potential contaminant migration pathways
  - a search for registered groundwater boreholes in the proposal area
  - a search of relevant environmental databases and public registers for the study area and surroundings.
– Preparation of this Stage 1 preliminary site investigation (PSI) to characterise contamination impacts for the proposal. The report was prepared in accordance with the guidelines outlined in section 2.1. The report includes:
  - findings of the contamination assessment
  - details on potential areas of contamination concern that could be present at the site
  - a preliminary Conceptual Site Model (CSM)
  - recommendations for further assessment
  - mitigation and management measures for potential contamination impacts.

3. Existing environment

GHD completed a review of existing environment information for the study areas, including site setting, environmental setting, site history and regulatory information presented in site specific Lotsearch reports (included in Appendix A). Existing environment information related to potential contamination sources identified during the Lotsearch report review is summarised in sections 3 and 4 of this report.

3.1 Site setting

3.1.1 Site identification

A study area location plan is provided in section 2.2.1. A summary of available information pertaining to the study areas is presented in Table 3.1.

Table 3.1 Site identification summary

Information	Details
Site address	Hartwood regulator: off Conargo Road, Hartwood, NSW 2710 Wanganella regulator: off Zara Road, Wanganella NSW 2170
Size of study areas	Total study area is approximately 525 hectares (ha) for the Hartford Regulator and 92 ha for the Wanganella regulator area. The proposal footprint occupies a small portion of these areas.
Local Government Area	Edward River Council – amalgamation of former Conargo Shire Council and Deniliquin Council in 2016
Land Use Zoning	The land zoning within the study area under the Conargo Local Environmental Plan 2013 (Conargo LEP) include: – RU1 – Primary Production – RU5 – Village (north-eastern corner of Wanganella regulator study area).
Traditional landowners	Wamba Wamba and Perrepa Perrepa

3.1.2 Surrounding land use

Land adjacent to the study areas consists of the following:

Hartwood regulator footprint

– **North:** Billabong Creek, riparian bushland, and agricultural land
– **East:** Billabong Creek, riparian bushland, and agricultural land beyond
– **South:** agricultural land
– **West:** Forest Creek, riparian bushland, and agricultural land

Wanganella regulator footprint

– **North:** undeveloped shrubland and agricultural land
– **East:** Wanganella village, Billabong Creek, and riparian bushland beyond
– **South:** agricultural land and Eight Mile Creek beyond
– **West:** Forest Anabranch, undeveloped shrubland and riparian bushland, and Billabong Creek.

3.2 Environmental setting

3.2.1 Climate

The south-west NSW region has a temperate climate. The temperatures are generally moderate and rainfall levels peak during the winter. The average seasonal temperatures and rainfall are summarised below, as recorded by the Bureau of Meteorology between the years of 1991 to 2020, from the Deniliquin weather station, located approximately 30 kilometres south of the site:

– Summer – 29.6 to 32.0 degrees Celsius (ºC) and 29 millimetres rainfall per month
– Autumn – 18.6 to 27.7 ºC and 26.4 millimetres rainfall per month
– Winter – 14.4 to 16.3 ºC and 30.7 millimetres rainfall per month
– Spring – 19.3 to 26.4 ºC and 35.7 millimetres rainfall per month.

3.2.2 Topography and drainage

Hartwood regulator: The topography through the study area is relatively uniform/flat at approximately 100 m AHD. The area is positioned to drain directly into Billabong Creek in the northern section of the study area and follow the flow of the creek in a north-westerly direction; and drain into Forest Creek in the southern section of the study area and follow the creek in a westerly direction.

Wanganella regulator: The topography through the study area is relatively uniform/flat at approximately 90 m AHD. The area is positioned to drain directly into Billabong Creek and follow the flow of the creek in a westerly direction.

3.2.3 Soils and landscape

The Atlas of Australian Soils describes the soil landscape as sodosol within the study area of the predominantly vertosol and sodosol. The soil unit is predominately gilgai plains of cracking grey clays with small areas of cracking brown clays, and very small areas of hard alkaline red soils and hard alkaline brown soils on low rises.

3.2.4 Acid sulfate soils

Hartwood Regulator: The CSIRO Atlas of Australian Acid Sulfate Soils indicates the study area as having a low probability (6-70%) of occurrence of acid sulfate soils.

Wanganella Regulator: The CSIRO Atlas of Australian Acid Sulfate Soils indicates the study area as having an extremely low probability (1-5%) of occurrence of acid sulfate soils. There is a high probability of occurrence (>70%) of acid sulfate soils approximately 850 metres south of the Wanganella Regulator footprint.

Land management activities in the study area are not likely to be affected by acid sulfate soil materials.

3.2.5 Dryland salinity

There is no Dryland Salinity National Assessment data for the study area.

The hydrogeological landscape (HGL) overlay on the eSPADE web map (accessed 13/03/2024) was viewed to understand potential groundwater salinity risks (NSW DCCEW, 2016). The HGL layer describes the soil, rocks, climate, and landforms that influence salinity in a given area. Within the zone of the Wanganella and Hartwood Regulators the following was noted:

– overall salinity hazard is categorised as moderate
– land salinity hazard is categorised as high
– salt exports are categorised as low
– instream electrical conductivity is categorised as low.

3.2.6 Hydrology

The closest receiving water bodies from the study area are perennial streams of the Murray River catchment within the Murray-Darling basin and include:

– Billabong Creek, which the regulators are sited within
– Forest Creek located approximately 1.2 kilometres south of the proposed Hartwood Regulator and adjacent to access tracks and power supply corridors within the study area
– Forest Anabranch located west of the Wanganella Regulator study area
– Eight Mile Creek located south-west of the Hartwood Regulator study area.

These water bodies within the study area are depicted on Figure 1.3 and Figure 1.4 in section 1. It is expected that these creeks flow generally west and drain into the Edward River, located approximately 100 kilometres west of the study area. There are a number of other surface water bodies surrounding the study area including:

– tributaries of Billabong Creek surrounding the study area
– some farm dams surrounding the study area
– multiple areas of standing water within the natural environment near rivers and creeks in low lying areas.

3.2.7 Geology

According to the NSW Seamless Geology Data Package 9323 (Department of Regional NSW, 2021), the site appears to be underlain by the geological units outlined in Table 3.2.

Table 3.2 Published geology

Geologic Period	Unit	Description	Location
Quaternary	Alluvial channel deposits – meander-plain facies	Clastic sediment: unconsolidated grey, humic, clayey very fine-grained sand, typically overlaying light brown clayey silt.	On site, underlying the majority of the study area, within the creek channels
Tertiary and Quaternary	Alluvial floodplain deposits	Silt: very fine to medium grained lithic to quartz rich sand	On site, located on the channel floodplains

3.2.8 Naturally occurring asbestos potential

There were no naturally occurring asbestos records within 1.0 kilometre of the study area.

3.2.9 Hydrogeology

The *Hydrogeological Map of Australia (Geoscience Australia)* describes the hydrogeology as porous, extensive aquifers of low to moderate productivity. The *Bureau of Meteorology Australian Groundwater Insight database* (2024) indicates that the Hartwood Regulator study area is situated within the Lower Murrumbidgee Alluvial: Lower Murrumbidgee Shallow and Deep management areas and the Wanganella Regulatory study area is situated within the Lower Murray Alluvial and Lower Mudgee Alluvial: Shallow management areas. There are no licensed groundwater entitlements within the study areas.

GHD conducted a review of existing groundwater boreholes summarised in the Lotsearch reports provided in Appendix A. The Lotsearch reports present data extracted from the *Bureau of Meteorology* and *WaterNSW* information databases. The review was conducted to identify registered groundwater boreholes in close proximity to the study area, and to record information such as their use and standing water level.

Two groundwater boreholes were identified within a 2.0 kilometre radius of the study area for irrigation purposes.

Groundwater was encountered between 19.3 metres below ground level (mbgl) and 28 mbgl. The screen depth of the boreholes ranges from 113 to 226 mbgl. Groundwater levels encountered in these boreholes are likely to be reflective of the geology of the screen depth.

The groundwater regionally is likely to be deep within the geology, however, there is likely to be shallow perched groundwater present within the residual soils near the creek lines. Groundwater may be affected by the construction works and may impact upon groundwater dependent ecosystems and groundwater users.

Details of the groundwater borehole search are summarised in Table 3.3 below and presented in the Lotsearch reports in Appendix A.

Table 3.3 Review of existing groundwater bores

Borehole ID	Purpose	Bore depth (m)	Standing Water Level (mbgl)	Yield (L/s)	Screen Opening (mbgl)	Drillers Log	Approximate Distance from the study area (m, direction)
GW504186	Irrigation	226	28	40	192 to 198; and 205 to 226	Topsoil to 1m, interchanging clay and sand layers to 130m, and a combination of coal, sand, lignite, and silt layers to 226m	670 m, W of Hartwood Regulator Study Area
GW500391	Irrigation	125	19.3	60	113 to 125	Clay to 14m, and interchanging sand and clay layers to 127m	2000 m, SW of Wanganella Regulator Study Area

3.2.10 Ecology

The Lotsearch report in Appendix A identified the following ecological receptors within the study areas:

– Hartwood Regulator:
  - Inland Riverine Forests, Riverine Plain Grasslands, and Inland Floodplain Woodlands native vegetation are mapped within the study area
  - low potential aquatic and high potential terrestrial GDEs are mapped within the study area, with low potential terrestrial GDEs mapped 173 metres east
  - the NSW BioNet Atlas identified three endangered or critically endangered species within the study area (Bush Stonecurlew, Plains Wanderer, and Australian Painted Snipe)
– Wanganella Regulator:
  - Riverine Plain Grasslands, Inland Riverine Forests, Inland Floodplain Woodlands, Riverine and Chenopod Shrublands native vegetation are mapped within the study area
  - low potential aquatic and terrestrial and high potential terrestrial groundwater dependent ecosystems (GDEs) are mapped within the study area, with a moderate potential aquatic GDE mapped 185 metres west
  - the NSW BioNet Atlas identified four endangered or critically endangered species within the study area (Australasian Bittern, South-eastern Hooded Robin, Plains Wanderer, and Australian Painted Snipe)
– several species of flora and fauna (within 10 kilometres of the study area) were identified as part of the biodiversity assessment. No Ramsar wetlands were identified on within the study area.

3.3 Site history

3.3.1 Historical aerial photographs

A selection of aerial photographs were examined in conjunction with historical business records in order to ascertain past activities and land uses in the study area. The years examined were 1945, 1950, 1960, 1964, 1968, 1976, 1985, 1991, 1996, 2012, 2014, 2020, 2022 and 2023. Extracts are provided in the Lotsearch report included in Appendix A. A summary of the information gained from the review of historical aerial photography and maps is provided in Table 3.4. It is noted that there may have been additional activities which might have occurred between the available aerial photos or activities present but not visible at the scale of the aerial imagery.

Table 3.4 Review of historical aerial photographs

Year	Hartwood Regulator study area	Wanganella Regulator study area
1945 (black and white)	The study area consists of the existing Hartwood weir, Billabong and Forest Creeks and some sparse native trees along the riparian corridor, and unvegetated land associated with agricultural practices. A dirt road intersects the site and crosses Forest Creek. The surrounding area appears to largely be unvegetated land associated with agricultural practices.	No aerial imagery available
1950 (black and white)	No aerial imagery available.	The study area consists of the existing Wanganella weir, Billabong Creek, a number of access tracks to the north and south of the creek, sparse native trees surrounding the creek, and a small unnamed tributary to the creek in the north of the study area. Small dwellings are visible north of the Billabong Creek east of the study area, and a dirt road in the present Cobb Highway alignment is also visible intersecting Billabong Creek immediately east of the study area and upstream of Billabong Creek. The remainder of the surrounding area is potentially undeveloped or used for agricultural practices in all directions.
1960 (black and white)	Continued evidence of agricultural practices on unvegetated land within and surrounding the study area. A second dirt road is visible intersecting the study area following the present Conargo Road alignment. A trench is also visible on a north-east to south-west axis leading from the agricultural areas to Forest Creek. No other significant changes are visible.	No aerial imagery available.
1964 (black and white)	A dwelling is visible immediately south of the study area. Continued evidence of agricultural practices on unvegetated land within and surrounding the study area. No other significant changes are visible.	Within the study area a disturbed area is visible where the current Wanganella Landfill is situated. The present day Zara Road is visible as a dirt road in the south of the study area. No other significant changes are visible.
1968 (black and white)	Continued evidence of agricultural practices on unvegetated land within and surrounding the study area. Small tracks within this area lead to the Hartwood Weir through the agricultural areas. The dirt road presently known as a Conargo Road is partially paved. No other significant changes are visible.	No aerial imagery available.
1970 (black and white)	No aerial imagery available.	No aerial imagery available.
1976 (black and white)	Trees surrounding Billabong Creek have become more established. The road presently known as a Conargo Road is now fully paved with a bridge now crossing Forest Creek. A new dwelling is visible in the western end of the study area. No other significant changes are visible.	The vegetation visible in previous aerial imagery has become more dense and some of the smaller access tracks to the south and north of the creek have been re-established into grassed scrubland. The route of the Cobb Highway has changed and now intersects the study area on a north-south axis with a new bridge crossing Billabong Creek. No other significant changes are visible.

Year	Hartwood Regulator study area	Wanganella Regulator study area
1985 (black and white)	Continued evidence of agricultural practices on unvegetated land within and surrounding the study area. A new dwelling is visible within the south of the study area. A pump station and outlet has been constructed in the south-west corner of the study area. The pump appears to be pumping water from Billabong Creek towards the western agricultural fields. No other significant changes are visible.	A new dirt track connecting the Wanganella Landfill to Cobb Highway is visible, intersecting the unnamed tributary of Billabong Creek. Evidence of waste disposal is visible at the Wanganella Landfill. No other significant changes are visible.
1991 (black and white)	Evidence of agricultural crop growing and potential farm dams south of Forest Creek within the study area. A dam or water body is also visible east off Billabong Creek within the study area. A new dirt road crossing is visible between Conargo Road and crossing Billabong Creek, upstream of the weir, towards this water body and then extending towards agricultural land outside the study area. No other significant changes are visible.	No aerial imagery available.
1996 (colour)	Dirt tracks leading towards the weir and pump station are now paved. Two new standing water bodies alongside Billabong Creek are visible within the study area. Evidence of crop growing is visible in agricultural areas within and surrounding the study area.	New dwellings are visible east of the study area. No other significant changes are visible
2012 (colour)	No aerial imagery available.	A significant increase of waste disposal activities is visible at the Wanganella Landfill. New dwellings are visible east of the study area. No other significant changes are visible.
2014 (colour)	The land surrounding Billabong and Forest Creeks continues to be used for agricultural purposes with evidence of crops and potential farm dams.	No aerial imagery available.
2020 (colour)	No significant changes within the study area. Silos are visible south of the study area.	A standing water body is visible situated within the middle of the Wanganella Landfill area and the unnamed tributary of Billabong Creek. No other significant changes are visible.
2022 (colour)	No aerial imagery available.	No significant changes are visible.
2023 (colour)	Additional water bodies surrounding Billabong Creek are visible within the study area and north of the study area. Agricultural practices remain visible surrounding the creeks within and surrounding the proposal site.	Increased inflows are visible in the unnamed tributary to Billabong Creek and increased water levels are visible in the standing water body between Wanganella Landfill and the creek. New dwellings are visible east of the study area. No other significant changes are visible.

3.3.2 Heritage

There were no heritage items listed on the Commonwealth, National or State heritage registers within 1.0 kilometre of the study areas.

Three heritage items were listed on the Conargo LEP 2013 within 1.0 kilometre of the Wanganella Regulator study area:

– Peppin Merino Memorial located approximately 110 metres south-east of the study area
– Wanganella Cobb & Co Stop (Former) located approximately 37 metres east of the study area
– Wanganella School (Former) located approximately 400 metres east of the study area.

There is one registered non-Aboriginal heritage item within the study area, comprising Hartwood Weir (S170 4550110). This heritage item, being the weir itself. This is registered under Section 170 of the Heritage Act 1977 for NSW government state agencies. The asset is owned by WaterNSW. Site history summary

Hartwood Regulator study area

The review of the historical aerial imagery and heritage registers indicate that the Hartwood Regulator study area and its surrounds was largely undeveloped with land use changing to become agricultural land adjacent to the regulator, access track, and pipeline footprints. Road construction also occurred within the study area, intersecting Billabong Creek.

Wanganella Regulator study area

The review of the historical aerial imagery and heritage registers indicate that the Wanganella Regulator study area remained undeveloped surrounding the proposed regulator footprint, with development and operation of a landfill occurring adjacent to the Wanganella flood bypass channel and associated access tracks. Areas of housing development have occurred in the east of the study area, and roads have been constructed to cross Billabong Creek.

Wanganella Landfill is a rural landfill available to the local community only with access via a key. This landfill only accepts the following waste:

– bricks
– concrete
– garden waste
– general household waste
– oil
– steel
– tyres.

During consultation and a site visit with Edward River Council on 31 July 2023, no concerns were raised about potential contamination impacting or being impacted by the proposed works in relation to the landfill. A photo of the landfill taken during September 2023 is shown in Figure 3.1.



Figure 3.1 Wanganella rural landfill

3.4 Regulatory information review

As part of the desktop review, information was obtained from a number of sources to enable a greater understanding of historical land use in the study area, including former site practices which may have the potential to cause contamination. The desktop review included the following sources of information:

– Council information including land zoning and heritage.
– NSW EPA Contaminated Sites Register (notifications or incidents)
– NSW EPA Protection of the Environment Operations (POEO) licence register.

3.4.1 Historical business directories

The Historical Business Directories provided information on historical dry cleaners, motor garages, and service stations. There were no dry cleaners, motor garages or service stations identified within 150 metres of the study areas.

3.4.2 Waste management and liquid fuel facilities

There were no National Liquid Fuel Facility sites within 1.0 kilometre of the study areas.

One National Waste Management Site was identified within the Wanganella Regulator study area:

– Wanganella Landfill is within the study area immediately south of the Wanganella Drainage Channel and is currently operational.

3.4.3 Mining

GHD reviewed datasets maintained by the NSW Department of Industry including mining and exploration titles. There were no current mining and exploration titles within 1.0 kilometre of the study areas. Nine historical mining and exploration titles were identified within 1.0 kilometre of the study areas as detailed in Table 3.5. There is no evidence within the aerial photos for the study areas of mining and exploration surface activities associated with these licenses.

Table 3.5 Historical mining and exploration titles

Holder	Resource	Distance to study area (m)
Meekatharra Minerals Ltd	Petroleum	Within Hartwood Regular study area
Australian Oil and Gas Corporation Ltd	Petroleum	Within Wanganella Regulator study area
Viewmont Gold Pty Ltd	Minerals	Within Wanganella Regulator study area
Applegate Exploration, LLC, Pannonian International Ltd	Minerals	Within Hartwood Regular study area
Pannonian International Ltd	Petroleum	Within Hartwood Regular study area
Balhoil Nominees Pty Ltd	Petroleum	Within Wanganella Regulator study area
Australian Coalbed Methane Pty Ltd	Petroleum	Within Wanganella Regulator study area
Australian Coalbed Methane Pty Ltd	Minerals	Within Wanganella Regulator study area
Planet Exploration Company Pty Ltd, Woodside (Lakes Entrance) Oil Company NL	Petroleum	598 m south of Hartwood Regular study area

3.4.4 PFAS investigation and management programs

There were no areas within 1.0 kilometre of the study areas investigated as part of the EPA PFAS Investigation Program, Defence PFAS Investigation Program, Defence PFAS Management Program, or Airservices Australia National PFAS Management Program.

3.4.5 NSW EPA database search

GHD reviewed datasets maintained by the EPA including notices under Contaminated Land Management Act (CLM) 1997, POEO Environment Protection License Register, environmental incidents and State Heritage register. The results are summarised below and included in the Lotsearch report in Appendix A.

3.4.5.1 List of NSW contaminated sites notified to EPA

The sites appearing in the list of NSW contaminated sites notified to the EPA indicate that the notifiers consider that the sites are contaminated and warrant reporting to EPA. However, the contamination may or may not be significant enough to warrant regulation by the EPA. The EPA needs to review and, if necessary, obtain more information before it can make a determination as to whether the site warrants regulation.

GHD reviewed the contaminated sites register and there were no notified contaminated sites within 150 metres of the study areas.

3.4.5.2 Licensed activities under the POEO Act 1997

There were no current licenses within 1.0 kilometre of the study areas.

3.4.5.3 Former licensed activities under the POEO Act 1997, now revoked or surrendered

Three former licenced activities (now surrendered) were noted within 1.0 kilometre of the study areas for the application of herbicides throughout waterways in NSW (License nos. 4653, 4838, 6630). It is unknown if the application of herbicides occurred in the waterways surrounding the study areas.

4. Preliminary conceptual site model

4.1 Potential contamination sources

Based on the results of the desktop assessment including review of historical information the potential for widespread and elevated contamination in soils, groundwater and surface water is considered to be low to moderate (in regard to infrastructure potentially intersecting Wanganella Landfill), however, a site investigation and contaminated land field investigations have not been completed to consolidate this finding.

Based on the desktop review, the following potential contamination sources were identified:

– asbestos and heavy metal (lead) contamination from the existing infrastructure and buildings at the site
– disturbance of contamination from existing and future site activities
– historical maintenance activities of existing infrastructure
– potential use of uncontrolled fill during historical development of the site
– pesticides and herbicides from historical land use
– Wanganella Landfill adjacent to the proposed drainage channel and access tracks.

Based on the sources listed above, the contaminants of potential concern (COPC) at the site are considered to include:

– asbestos (presence or absence) in fill and associated with existing infrastructure
– heavy metals (arsenic, cadmium, copper, chromium, mercury, nickel, lead, and zinc) in fill
    - lead associated with existing infrastructure
– benzene, toluene, ethylbenzene and xylene (BTEX), total recoverable hydrocarbons (TRH), and polycyclic aromatic hydrocarbons (PAH) from historical land use of the site, associated with existing infrastructure, and the potential for uncontrolled fill
– organochlorine pesticides (OCP) from historical land use
– organophosphorus pesticides (OPP) from historical land use
– contaminants associated with the operation of the Wanganella Landfill:
    - polychlorinated biphenyls (PCBs)
    - per- and poly-fluoroalkyl substances (PFAS)
    - phenols
    - ammonia
    - semi-volatile organic compounds (SVOCs)
    - volatile organic compounds (VOCs)
    - landfill gases including methane, carbon monoxide, carbon dioxide, hydrogen sulphide, and VOCs.

4.2 Pathways

The primary pathways by which receptors could be exposed to the potential sources of contamination outlined above are considered to be:

– dermal contact with contaminated soil, groundwater, surface water, and sediment during construction and operational maintenance
– incidental ingestion of contaminated soil, groundwater, surface water, and sediment during construction and operational maintenance
– inhalation of volatile compounds and gases from contaminated soil, groundwater, surface water, and sediment during construction (primarily) and operational maintenance
– surface runoff and sediment transport into storm water drainage and subsequent transport and discharge to surface waters during construction (primarily) and operation

– transport of contaminants via groundwater during construction and operation
– Intersection and seepage of leachate through unsealed ground surfaces around Wanganella Landfill entering surface waters during construction and operation
– migration of vapours/gases from Wanganella Landfill via preferential pathways during construction and operations.

These pathways have potential to be present during construction of the regulators and the potential source pathway linkages are shown in section 4.4.

4.3 Sensitive receptors

When evaluating potential adverse health / environmental effects from exposure to a contaminated site, all potentially exposed populations should be considered. The key populations or receptors of interest include:

– onsite construction workers
– operational site users (e.g. regulator maintenance workers)
– current and future recreational site users (e.g. fishing and swimming)
– existing and future users of groundwater for potable, recreational, stock and irrigation purposes
– ecological communities in surface waters.

4.4 Potential source-pathway-receptor linkages

A summary of the potential source-pathway-receptor linkages for the proposed upgrade works set out in section 1.1 are displayed in Table 4.1

Table 4.1 Potential source-pathway-receptor linkages for Hartwood regulator proposal site

Source	Potential pathway	Potential Receptor	Potential linkage
– Asbestos and heavy metal (lead) contamination from the existing infrastructure and buildings at the site – Disturbance of contamination from existing and future site activities – Potential use of uncontrolled fill during historical development of the site – Potential spills or leaks of chemicals during construction and/or maintenance of the regulator – Pesticides and herbicides from historical land use	Dermal contact with contaminated soil, groundwater, surface water and sediment on the proposal site	Construction workers.	Possible – if contamination is present in soil, groundwater, surface water and/or sediment, it may be intersected by construction workers.
		Operational site workers (e.g. intrusive regulator maintenance workers)	Possible – if contamination is present in soil, groundwater, surface water and/or sediment, it may be intersected during operational maintenance works.
		Recreational site users (e.g., fishing and swimming)	Unlikely – it is unlikely that recreational users will come into direct contact with soil, sediment, surface water and/or groundwater within the proposal footprint.
		Groundwater users	Absent – there are no registered supply bores within the proposal footprint.
		Terrestrial ecological receptors	Possible – rooting systems of terrestrial vegetation may intersect contamination in soil and groundwater created by construction or maintenance activities within the proposal footprint.
		Aquatic ecological receptors	Possible – Disturbance of contaminated soil/sediment, spills and leaks, or release from materials containing chemicals by construction works or operational activities could contact ecological receptors in Billabong Creek.
	Incidental ingestion of contaminated soil, groundwater, surface water and sediment on the proposal site	Construction workers	Possible – if contamination is present in soil, groundwater, surface water and/or sediment, it may be ingested by construction workers.
		Operational site workers (e.g. intrusive regulator maintenance workers)	Possible – if contamination is present in soil, groundwater, surface water and/or sediment, it may be intersected during operational maintenance works.
		Recreational site users (e.g., fishing and swimming)	Unlikely – it is unlikely that recreational users will come into direct contact with soil, sediment, surface water and/or groundwater within the proposal footprint.
		Groundwater users	Absent – there are no registered supply bores within the proposal boundary.
		Terrestrial ecological receptors	Possible – rooting systems, of terrestrial vegetation may intersect contamination in soil and groundwater created by construction or maintenance activities within the proposal footprint.
		Aquatic ecological receptors	Possible – Disturbance of contaminated soil/sediment, spills and leaks, or release from materials containing chemicals by construction works or operational activities could contact ecological receptors in Billabong Creek.
	Inhalation of volatile compounds and gases	Construction workers	Possible – if contamination is present in soil, groundwater, surface water and/or sediment, vapours may be inhaled by construction workers.

Source	Potential pathway	Potential Receptor	Potential linkage
	from contaminated soil, groundwater, surface water and sediment on the proposal site.	Operational site workers (e.g. intrusive regulator maintenance workers)	Possible – if contamination is present in soil, groundwater, surface water and/or sediment, vapours may be inhaled by operational maintenance works.
		Recreational site users (e.g. fishing and swimming)	Unlikely – recreational users are unlikely to inhale vapours generated by contamination, spills or leaks associated within the proposal footprint.
		Groundwater users	Absent – there are no registered supply bores within the proposal footprint.
		Terrestrial ecological receptors	Unlikely – any vapours generated are expected to dissipate to acceptable levels before significant exposure to no-site terrestrial ecosystems. Direct contact and ingestion are expected to be the primary pathways for exposure of on-site terrestrial ecosystems.
		Aquatic ecological receptors	Unlikely – vapours are expected to readily volatilise from aquatic ecosystems.
	Surface runoff and sediment transport into storm water drainage and subsequent transport and discharge to surface waters off the proposal site Transport of contaminants via groundwater off the proposal site.	Construction workers	Absent – not present off site.
		Operational site workers (e.g. intrusive regulator maintenance workers)	Absent – not present off site.
		Recreational site users (e.g. fishing and swimming)	Possible – recreational users may come into direct contact with potentially contaminated surface water created by construction and operational maintenance works. Unlikely (for other media) – it is unlikely that recreational users will come into direct contact with soil, sediment and/or groundwater.
		Groundwater users	Unlikely – if contamination is present in groundwater, supply bores are unlikely to be impacted due to the distance from the study area to registered water supply bores.
		Terrestrial ecological receptors	Possible – rooting systems of terrestrial vegetation immediately surrounding the proposal footprint and in riparian areas of Billabong Creek may intersect contamination in soil, sediment and groundwater liberated by construction or maintenance activities.
		Aquatic ecological receptors	Possible – Disturbance of contaminated soil/sediment, spills and leaks, or release from materials containing chemicals by construction works or operational activities could contact ecological receptors in Billabong Creek.

Table 4.2 Potential source-pathway-receptor linkages for Wanganella regulator proposal site

Source	Potential pathway	Potential Receptor	Potential linkage
– Runoff of hazardous materials from existing weir infrastructure at the site. – Potential use of uncontrolled fill during historical development of the site. – Pesticides and herbicides from historical land use. – Potential spills or leaks of chemicals during construction and/or maintenance of the regulator. – Wanganella Landfill	Dermal contact with contaminated soil, groundwater, surface water and sediment on the proposal site.	Construction workers.	Possible – if contamination is present in soil, groundwater, surface water and/or sediment, it may be intersected by construction workers.
		Operational site workers (e.g. intrusive regulator maintenance workers)	Possible – if contamination is present in soil, groundwater, surface water and/or sediment, it may be intersected during operational maintenance works.
		Recreational site users (e.g. fishing and swimming)	Unlikely – it is unlikely that recreational users will come into direct contact with soil, sediment, surface water and/or groundwater within the proposal footprint.
		Groundwater users	Absent – there are no registered supply bores within the proposal footprint.
		Terrestrial ecological receptors	Possible – rooting systems of terrestrial vegetation may intersect contamination in soil and groundwater created by construction or maintenance activities within the proposal footprint.
		Aquatic ecological receptors	Possible – Disturbance of contaminated soil/sediment, spills and leaks, or release from materials containing chemicals by construction works or operational activities could contact ecological receptors in Billabong Creek.
	Incidental ingestion of contaminated soil, groundwater, surface water and sediment on the proposal site.	Construction workers	Possible – if contamination is present in soil, groundwater, surface water and/or sediment, it may be ingested by construction workers.
		Operational site workers (e.g. intrusive regulator maintenance workers)	Possible – if contamination is present in soil, groundwater, surface water and/or sediment, it may be intersected during operational maintenance works.
		Recreational site users (e.g. fishing and swimming)	Unlikely – it is unlikely that recreational users will come into direct contact with soil, sediment, surface water and/or groundwater within the proposal footprint.
		Groundwater users	Absent – there are no registered supply bores within the proposal boundary.
		Terrestrial ecological receptors	Possible – rooting systems, of terrestrial vegetation may intersect contamination in soil and groundwater created by construction or maintenance activities within the proposal footprint.

Source	Potential pathway	Potential Receptor	Potential linkage
		Aquatic ecological receptors	Possible – Disturbance of contaminated soil/sediment, spills and leaks, or release from materials containing chemicals by construction works or operational activities could contact ecological receptors in Billabong Creek.
	Inhalation of volatile compounds and gases from contaminated soil, groundwater, surface water and sediment on the proposal site.	Construction workers	Possible – if contamination is present in soil, groundwater, surface water and/or sediment, vapours may be inhaled by construction workers.
		Operational site workers (e.g. intrusive regulator maintenance workers)	Possible – if contamination is present in soil, groundwater, surface water and/or sediment, vapours may be inhaled by operational maintenance works.
		Recreational site users (e.g. fishing and swimming)	Unlikely – recreational users are unlikely to inhale vapours generated by contamination, spills or leaks associated within the proposal footprint.
		Groundwater users	Absent – there are no registered supply bores within the proposal footprint.
		Terrestrial ecological receptors	Unlikely - any vapours generated are expected to dissipate to acceptable levels before significant exposure to no-site terrestrial ecosystems. Direct contact and ingestion are expected to be the primary pathways for exposure of on-site terrestrial ecosystems.
		Aquatic ecological receptors	Unlikely – vapours are expected to readily volatilise from aquatic ecosystems.
	Surface runoff and sediment transport into storm water drainage and subsequent transport and discharge to surface waters off the proposal site Transport of contaminants via groundwater off the proposal site.	Construction workers	Absent – not present off site.
		Operational site workers (e.g. intrusive regulator maintenance workers)	Absent – not present off site.
		Recreational site users (e.g. fishing and swimming)	Possible – recreational users may come into direct contact with potentially contaminated surface water created by construction and operational maintenance works. Unlikely (for other media) – it is unlikely that recreational users will come into direct contact with soil, sediment and/or groundwater.
		Groundwater users	Unlikely – if contamination is present in groundwater, supply bores are unlikely to be impacted due to the distance from the study area to registered water supply bores.
		Terrestrial ecological receptors	Possible – rooting systems of terrestrial vegetation immediately surrounding the proposal footprint and in riparian areas of Billabong Creek may intersect contamination in soil, sediment and groundwater liberated by construction or maintenance activities.
		Aquatic ecological receptors	Possible – Disturbance of contaminated soil/sediment, spills and leaks, or release from materials containing chemicals by construction works or operational activities could contact ecological receptors in Billabong Creek.

Source	Potential pathway	Potential Receptor	Potential linkage
	Seepage of leachate from Wanganella Landfill into construction excavations and surface waters bodies.	Construction workers	Likely – with the current conceptualisation, leachate could enter the Wanganella flood bypass channel, which is adjacent to the landfill. Leachate could migrate into construction excavations, exposing construction workers, and into the channel when operational, exposing maintenance workers, recreational users, terrestrial riparian vegetation and in-creek aquatic ecology. Unlikely (groundwater users) – if contamination is present in groundwater, supply bores are unlikely to be impacted due to the distance of the study area to registered supply bores.
		Operational site workers (e.g. intrusive regulator maintenance workers)	
		Recreational site users (e.g. fishing and swimming)	
		Groundwater users	
		Terrestrial ecological receptors	
		Aquatic ecological receptors	
	Migration of vapours/ gases from Wanganella Landfill via preferential pathways	Construction workers	Likely – with the current conceptualisation, landfill gas and vapours could migrate to the Wanganella flood bypass channel, which is adjacent to the landfill. The gases/vapours could migrate into construction excavations, exposing construction workers, and into the channel when operational, exposing maintenance workers, recreational users, terrestrial riparian vegetation and in-creek aquatic ecology. Access tracks to the Wanganella flood bypass channel for the proposal are also expected cross the footprint of Wanganella Landfill. Unlikely (groundwater users) – if dissolved phase gas contamination is present in groundwater, supply bores are unlikely to be impacted due to the distance of the study area to registered supply bores.
		Operational site workers (e.g. intrusive regulator maintenance workers)	
		Recreational site users (e.g. fishing and swimming)	

5. Impact assessment

Based on the desktop assessment findings, the potential for contamination associated with the Wanganella Landfill is considered to be moderate, however, a contamination specific site inspections and/or intrusive field investigations have not been completed to consolidate the findings. As such the potential for contamination to be present from these sources cannot be ruled out.

The potential for widespread and elevated contamination in soils, groundwater and surface water associated with runoff of hazardous materials from existing weir infrastructure, potential use of uncontrolled fill, pesticide and herbicide use, and heavy metal contamination from existing infrastructure is considered to be low, however, a contamination specific site inspections and/or intrusive field investigations have not been completed to consolidate the findings. As such the potential for contamination to be present from these sources cannot be ruled out.

The potential impacts associated with the intersection of contaminated soils, sediment, groundwater and surface water during construction and operation is outlined below.

5.1 Construction impacts

During construction it is expected that there will be shallow excavations and/or reprofiling of the surface to create the foundations for the site infrastructure. This may include:

- demolition of the old weir structure and disturbance of surrounding soils that could contain lead paints and asbestos
- interaction of soils that:
  - have historically been sprayed with insecticides and/or pesticides
  - have been used for previous construction on site that are from uncontrolled sources
- interaction with potentially contaminated groundwater
- interaction with leachate and/or gases associated with the Wanganella Landfill. It is noted that the area to be excavated for the Wanganella flood bypass channel is approximately 50 metres to 100 metres north of the landfill boundary. Access tracks to the Wanganella flood bypass channel for the proposal will use the existing access track to Wanganella Landfill.

During construction the process of excavation and movement of soils and demolition will increase the risk of impacted soils, sediments and groundwater coming into contact with construction workers. The process of excavating soils and demolition of the existing weirs will also increase the risk of liberating dust/fibres containing lead, asbestos or other key COPC.

Instream works to replace the existing weir with new infrastructure will significantly increase the potential for release of sediment and contaminated materials / chemicals to surface water.

Exposed soils in construction areas, and liberation of chemicals from construction equipment / processes, will also have a greater probability of running off into adjacent surface water features during rainfall events potentially exposing recreational users and aquatic ecosystems in Billabong Creek.

Chemical spills from construction equipment or from other construction processes could potentially impact nearby surface water bodies (Billabong Creek) and underlying groundwater aquifers, although, impacted groundwater would most likely discharge back into Billabong Creek.

5.2 Operational impacts

During operation, maintenance works on the regulators may increase the risk of liberating potentially impacted soils, sediment, and groundwater.

Any chemicals and equipment used for operational activities and maintenance works during operation would need to be appropriately managed to minimise the potential for leaks and spills directly to the surrounding environment (primarily to Billabong Creek).

5.3 Cumulative impacts

No other proposed major projects were identified in and around the proposed regulators that could result in ongoing to cumulative impacts.

Surface run-off and/or groundwater inputs to Billabong Creek from existing land use practices (such as cropping activities and potentially from the landfill at Wanganella), may be contribute to low level water quality changes in Billabong Creek.

Any potential impacts associated with each regulator in the proposal are expected to be localised and are unlikely to overlap to create cumulative impacts. Due to an expected small size/volume of potential sources of contamination and the distance between regulators, release of impacts from the construction and operation of the regulator sites, with subsequent migration to downgradient regulators via Billabong Creek, is considered to be unlikely.

Any impacts that occur during construction and operation would likely be acute and associated with isolated incidents. These impacts would be unlikely to contribute to long term cumulative impacts as protocols for identifying and responding to incidents would be implemented during construction and operation.

As such cumulative impacts associated with different regulators in the proposal are not expected. Monitoring would be implemented to verify this.

6. Mitigation and management of impacts

Table 6.1 lists the mitigation and management measures that would be implemented to manage potential contamination impacts presented in section 5.

Table 6.1 Contamination mitigation and management measures

Measure	Impact	Environmental safeguards	Responsibility	Timing
Wanganella flood bypass channel area – Development of a leachate and ground gas management plan as part of construction management documents	– Migration of ground gases to site receptors – Intersection by and seepage of leachate into receiving water bodies	– Development of a leachate and ground gas management plan and assessment of potential for runoff from the Landfill into receiving water bodies as part of construction management documents (e.g. CEMP). Consideration should be given to targeted site investigations to inform the development of the leachate and ground gas management plan. – Implementation of a monitoring during construction works in this area to address human health risks from potential gas/vapour migration. – Implementation of a groundwater monitoring program to assess the potential for leachate migration into excavations and during operation. – Management/Monitoring plans should be prepared in accordance with relevant NSW EPA Guidance including, but not limited to: • consultants reporting on contaminated land, Contaminated Land Guidelines, NSW EPA 2020 • Environmental Guidelines, Solid Waste Landfills (2nd Edition), NSW EPA 2016.	Contractor	Detailed design
Construction environmental management plan (CEMP)	– Construction/Operation spills – Contamination releases – Liberation of potentially contaminated dust / fibres. – Off site migration of contamination	– Odour and dust/fibre control procedures and monitoring to minimise the release of dust/fibres to the surrounding environment. – Erosion and sediment control procedures and management measures. – Procedures to minimise the potential for construction spills and contamination releases. – Protocols to minimise the potential for offsite migration of impact in surface water and groundwater.	Contractor	Pre construction, construction

Measure	Impact	Environmental safeguards	Responsibility	Timing
		– Emergency response procedures in the event of a release of contamination, whether it be via surface water, groundwater, or air. – A soil management plan detailing the high-risk areas of the site, exposure risk management protocols, materials storage procedures (including stockpile management and reuse protocols), waste transport procedures, waste tracking and disposal plans to ensure all material is appropriately managed. – An unexpected finds protocol, particularly with regard to asbestos, which is linked to additional site investigations and the development of a remedial action plan, where required, to effectively manage contamination. – Management/Monitoring plans should be prepared in accordance with relevant NSW EPA Guidance including, but not limited to: • consultants reporting on contaminated land, Contaminated Land Guidelines, NSW EPA 2020 • Environmental Guidelines, Solid Waste Landfills (2nd Edition), NSW EPA 2016 • The NSW Waste Classification Guidelines and relevant NSW reuse/waste orders and exemptions (e.g. the Excavated Natural Material Order / Exemption).		
Environmental monitoring program	– Surface runoff and sediment transport into storm water drainage and subsequent transport and discharge to surface waters – Transport of contaminants via groundwater to surrounding receptors.	– Surface water, groundwater and dust monitoring should be implemented to monitor for and respond to the emergence of contamination impacts during construction of the proposal. – Monitoring plans should be prepared in accordance with relevant NSW EPA Guidance including, but not limited to: • consultants reporting on contaminated land, Contaminated Land Guidelines, NSW EPA 2020.	NSW DCCEEW / Contractor	Pre-construction, construction and operational
Operational management	– Contamination during maintenance activities	– An operational management plan will include controls to minimise contamination from plant and equipment usage during maintenance activities.	WaterNSW	Operation

7. Conclusions and recommendations

The findings of assessment, indicate that there is potential for contamination associated with the Wanganella Landfill to impact the proposal construction and operation in the vicinity of the Wanganella flood bypass channel. A contamination specific site inspection and intrusive field investigations have not been completed to consolidate these findings. As such the potential for contamination to be present at the landfill cannot be ruled out.

The assessment findings indicate that it is unlikely that there is widespread and elevated contamination in soils, groundwater and surface water associated with liberation of hazardous materials from existing weir infrastructure, potential use of uncontrolled fill, pesticide and herbicide use, and heavy metal contamination from existing infrastructure. Contamination specific site inspections and/or intrusive field investigations have not been completed to consolidate the findings. As such the potential for contamination to be present from these sources cannot be ruled out.

Contaminated land specific site inspections and/or targeted field investigations (as informed by a field inspection), would consolidate the conceptual understanding of contamination risks/impacts further and facilitate refinement of construction based human and environmental risk/impact and waste management.

The assessment findings indicate that there is potential for construction and operation activities to release contamination to the surrounding environment resulting in exposure to human and environmental receptors such as from spills or leaks.

With the current conceptual understanding of the proposal regulator sites, the following potentially completed source-pathway-receptor linkages were identified:

– ingestion, inhalation and/or dermal contact with historically contaminated soil, groundwater, and surface water by human and ecological receptors on the proposal site.
– migration of historical contamination, disturbed by construction and in groundwater and/or surface water to ecological and recreational receptors in Billabong Creek
– exposure of human health receptors on-site and off-site from fibres, such as asbestos, liberated from historical site structures that are disturbed/demolished during construction (demolition) and/or operation
– exposure of human health and ecological receptors (onsite and off-site) associated with spills or leaks to soil, sediment, surface water or groundwater during construction and operation of the proposal
– exposure of human health and ecological receptors to leachate and ground gas migrating from Wanganella Landfill to the Wanganella bypass channel excavations and surface water.

The seepage of leachate through potentially unsealed landfills and the migration of vapours / gases at Wanganella Landfill will need to be managed and/or investigated further.

It is expected that the remainder of these impacts can be effectively managed with the provision of appropriate procedures within a CEMP and/or OEMP, as outlined in section 6.

The following recommendations are provided:

– construction and operation management measures should be implemented to ensure minimal contamination impact resulting from the proposal, including the development of a construction and operational environmental management plan, a remediation action plan (if contamination is identified), and an environmental monitoring program for the site as outlined in section 6.
– development of a groundwater and ground gas management plan as part of construction management documents for works within the vicinity of the Wanganella Landfill.

8. References

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NSW EPA, 2022. *Sampling design guidelines for contaminated land,* Parramatta: NSW EPA.

Appendix A

Lotsearch report

LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 07 Feb 2024 14:56:15

Reference: LS052511 EP

Address: Hartwood Regulator, Hartwood, NSW 2710

Disclaimer:
The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features.
You should obtain independent advice before you make any decision based on the information within the report.
The detailed terms applicable to use of this report are set out at the end of this report.

Dataset Listing

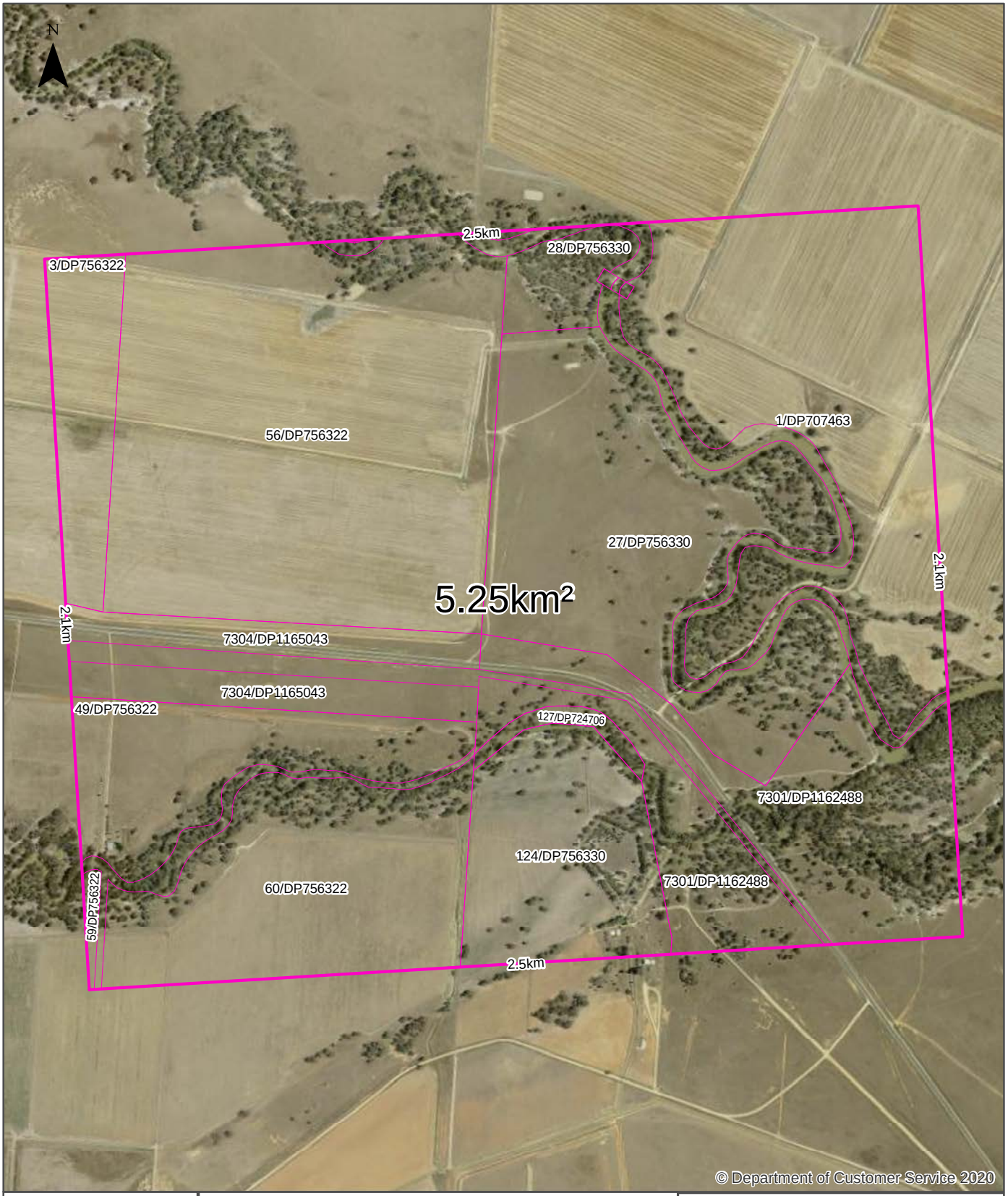
Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	04/01/2024	04/01/2024	Quarterly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	22/08/2022	22/08/2022	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	12/01/2024	14/12/2023	Monthly	1000m	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority	12/01/2024	12/01/2024	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	24/01/2024	14/07/2021	Quarterly	1000m	0	0	0
Notices under the POEO Act 1997	Environment Protection Authority	17/01/2024	17/01/2024	Monthly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	20/09/2023	07/09/2020	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	15/01/2024	21/11/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	05/02/2024	05/02/2024	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	05/02/2024	05/02/2024	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	05/02/2024	05/02/2024	Monthly	2000m	0	0	0
Defence Controlled Areas	Department of Defence	12/01/2024	12/01/2024	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	24/01/2024	02/09/2022	Quarterly	2000m	0	0	0
National Unexploded Ordnance (UXO)	Department of Defence	12/01/2024	12/01/2024	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	13/11/2023	15/12/2022	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	15/01/2024	15/01/2024	Monthly	1000m	1	1	1
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	15/01/2024	15/01/2024	Monthly	1000m	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	15/01/2024	15/01/2024	Monthly	1000m	3	3	3
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	0	0	0
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	0	0
Points of Interest	NSW Department of Customer Service - Spatial Services	13/11/2023	13/11/2023	Quarterly	1000m	1	1	1
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	13/11/2023	13/11/2023	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	13/11/2023	13/11/2023	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	31/01/2024	31/01/2024	Quarterly	1000m	2	2	3
State Forest	Forestry Corporation of NSW	12/12/2023	11/12/2023	Annually	1000m	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	16/02/2023	31/12/2022	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	06/02/2024	19/08/2019	Annually	1000m	1	1	1

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	09/05/2023	23/02/2018	Annually	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	18/04/2023	13/07/2022	Annually	2000m	0	0	2
NSW Seamless Geology Single Layer: Rock Units	Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	2	2	2
NSW Seamless Geology – Single Layer: Trendlines	Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	0	0	0
NSW Seamless Geology – Single Layer: Geological Boundaries and Faults	Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Annually	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	12/01/2024	17/02/2011	Annually	1000m	1	1	1
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	02/02/2024	01/09/2023	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	12/01/2024	21/02/2013	Annually	1000m	1	1	1
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	Annually	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	24/01/2024	24/01/2024	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	24/01/2024	24/01/2024	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Industry	24/01/2024	24/01/2024	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	24/01/2024	24/01/2024	Monthly	1000m	6	6	7
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	02/02/2024	08/09/2023	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	02/02/2024	19/01/2024	Monthly	1000m	1	1	1
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	20/10/2023	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	20/10/2023	13/04/2022	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	24/01/2024	24/11/2023	Quarterly	1000m	0	0	0
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	02/02/2024	19/01/2024	Monthly	1000m	0	0	0
Bush Fire Prone Land	NSW Rural Fire Service	12/01/2024	20/11/2023	Monthly	1000m	2	2	2
NSW Native Vegetation Type Map	NSW Department of Planning and Environment	26/05/2023	12/12/2022	Quarterly	1000m	230	257	501
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	09/05/2023	01/11/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	3	3	4
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	6	6	11
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	29/11/2023	29/11/2023	Weekly	10000m	-	-	-

Site Diagram

Hartwood Regulator, Hartwood, NSW 2710



Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 5.25km²

Total Perimeter: 9.2km

Disclaimers:

Measurements are approximate only and may have been simplified or smaller lengths removed for readability.

Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.

Scale: 0 75 150 300 450 600 750 Meters

Data Sources: Aerial Imagery:
© NSW Department of Finance, Services & Innovation

Coordinate System:
GDA 1994 MGA Zone 56

Date: 07 February 2024

Contaminated Land

Hartwood Regulator, Hartwood, NSW 2710

List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist	Direction
N/A	No records in buffer								

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Contaminated Land

Hartwood Regulator, Hartwood, NSW 2710

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
N/A	No records in buffer							

Contaminated Land Records of Notice Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority
Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm

Former Gasworks

Former Gasworks within the dataset buffer:

Map Id	Location	Council	Further Info	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Contaminated Land

Hartwood Regulator, Hartwood, NSW 2710

EPA Notices

Penalty Notices, s.91 & s.92 Clean up Notices and s.96 Prevention Notices within the dataset buffer:

Number	Type	Name	Address	Status	Issued Date	Act	Offence	Offence Date	Loc Conf	Dist	Dir
N/A	No records in buffer										

NSW EPA Notice Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Waste Management & Liquid Fuel Facilities

Hartwood Regulator, Hartwood, NSW 2710

National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

Site Id	Owner	Name	Address	Suburb	Class	Landfill	Reprocess	Transfer	Comments	Loc Conf	Dist	Direction
N/A	No records in buffer											

Waste Management Facilities Data Source: Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
N/A	No records in buffer										

National Liquid Fuel Facilities Data Source: Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

PFAS Investigation & Management Programs

Hartwood Regulator, Hartwood, NSW 2710

EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

Map ID	Site	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

EPA PFAS Investigation Program: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Defence PFAS Investigation Program

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation Program Data Custodian: Department of Defence, Australian Government

Defence PFAS Management Program

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Management Program Data Custodian: Department of Defence, Australian Government

Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Loc Conf	Dist	Dir
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites and Unexploded Ordnance

Hartwood Regulator, Hartwood, NSW 2710

Defence Controlled Areas (DCA)

Defence Controlled Areas provided by the Department of Defence within the dataset buffer:

Site ID	Location Name	Loc Conf	Dist	Dir
N/A	No records in buffer			

Defence Controlled Areas, Data Custodian: Department of Defence, Australian Government

Defence 3 Year Regional Contamination Investigation Program (RCIP)

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

National Unexploded Ordnance (UXO)

Sites which have been assessed by the Department of Defence for the potential presence of unexploded ordnance within the dataset buffer:

Site ID	Location Name	Category	Area Description	Additional Information	Commonwealth	Loc Conf	Dist	Dir
N/A	No records in buffer							

National Unexploded Ordnance (UXO), Data Custodian: Department of Defence, Australian Government

EPA Other Sites with Contamination Issues

Hartwood Regulator, Hartwood, NSW 2710

EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- Pasminco Lead Abatement Strategy Area

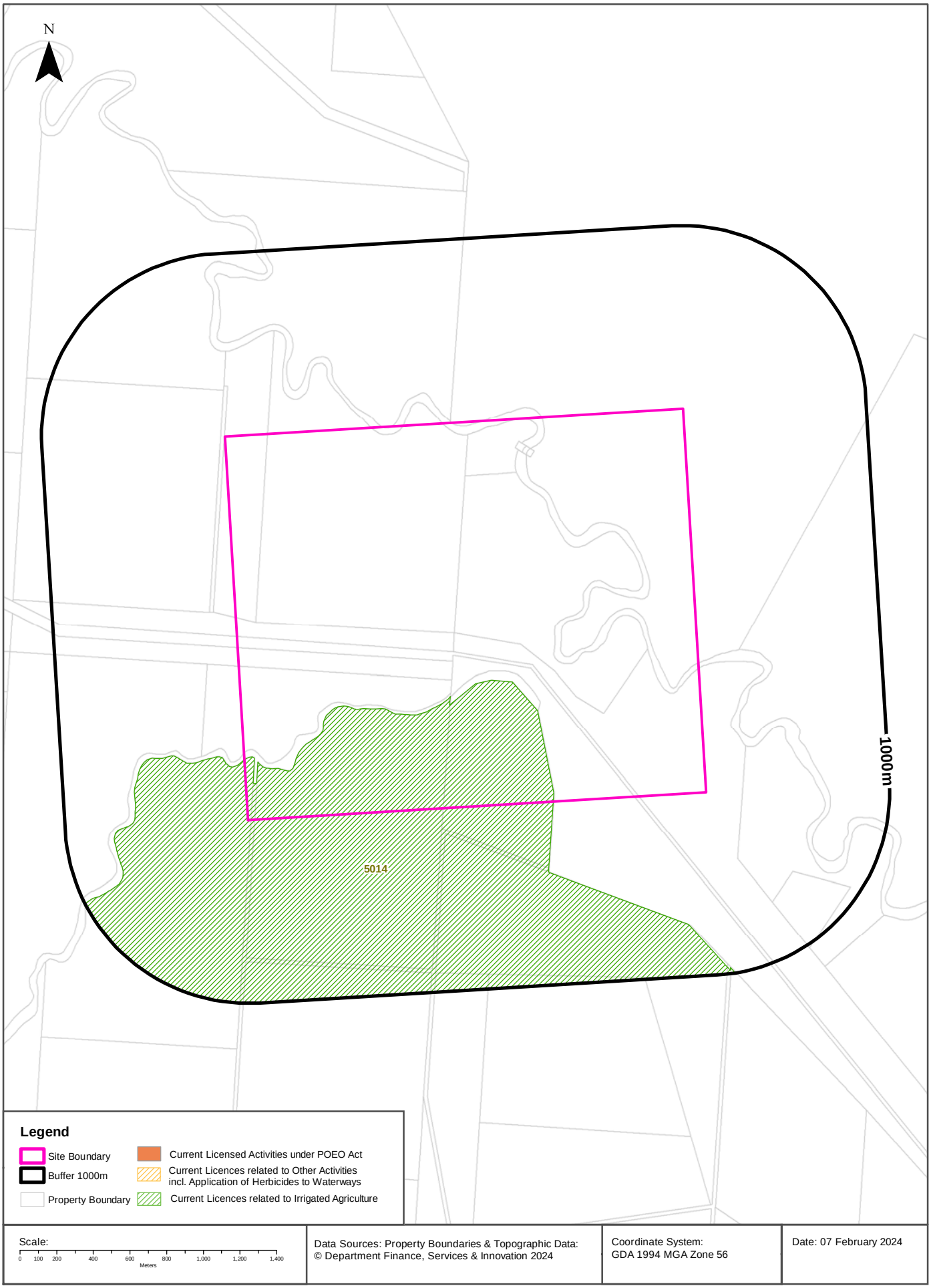
Sites within the dataset buffer:

Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

EPA Other Sites with Contamination Issues: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Current EPA Licensed Activities

Hartwood Regulator, Hartwood, NSW 2710



EPA Activities

Hartwood Regulator, Hartwood, NSW 2710

Licensed Activities under the POEO Act 1997

Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
5014	MURRAY IRRIGATION LIMITED	MURRAY IRRIGATION AREA OF OPERATIONS WITHIN SHIRES OF	Berrigan, Murrumbidgee, Murray River, Edward River, Federation, DENILIQUIN, NSW 2710	DENILIQUIN	Irrigated agriculture	Area Match	0m	On-site

POEO Licence Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

Hartwood Regulator, Hartwood, NSW 2710



EPA Activities

Hartwood Regulator, Hartwood, NSW 2710

Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
N/A	No records in buffer							

Delicensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site

Former Licensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Historical Business Directories

Hartwood Regulator, Hartwood, NSW 2710

Business Directory Records 1950-1991
Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1970, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Business Directory Records 1950-1991
Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1970, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
N/A	No records in buffer					

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Historical Business Directories

Hartwood Regulator, Hartwood, NSW 2710

Dry Cleaners, Motor Garages & Service Stations Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Dry Cleaners, Motor Garages & Service Stations Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
N/A	No records in buffer					

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Aerial Imagery 2023

Hartwood Regulator, Hartwood, NSW 2710



Scale:
0 210 420 630 840
Meters

Data Source Aerial Imagery: © 2024 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 56

Date: 07 February 2024

Aerial Imagery 2020

Hartwood Regulator, Hartwood, NSW 2710



Aerial Imagery 2014

Hartwood Regulator, Hartwood, NSW 2710



Scale:
0 210 420 630 840
Meters

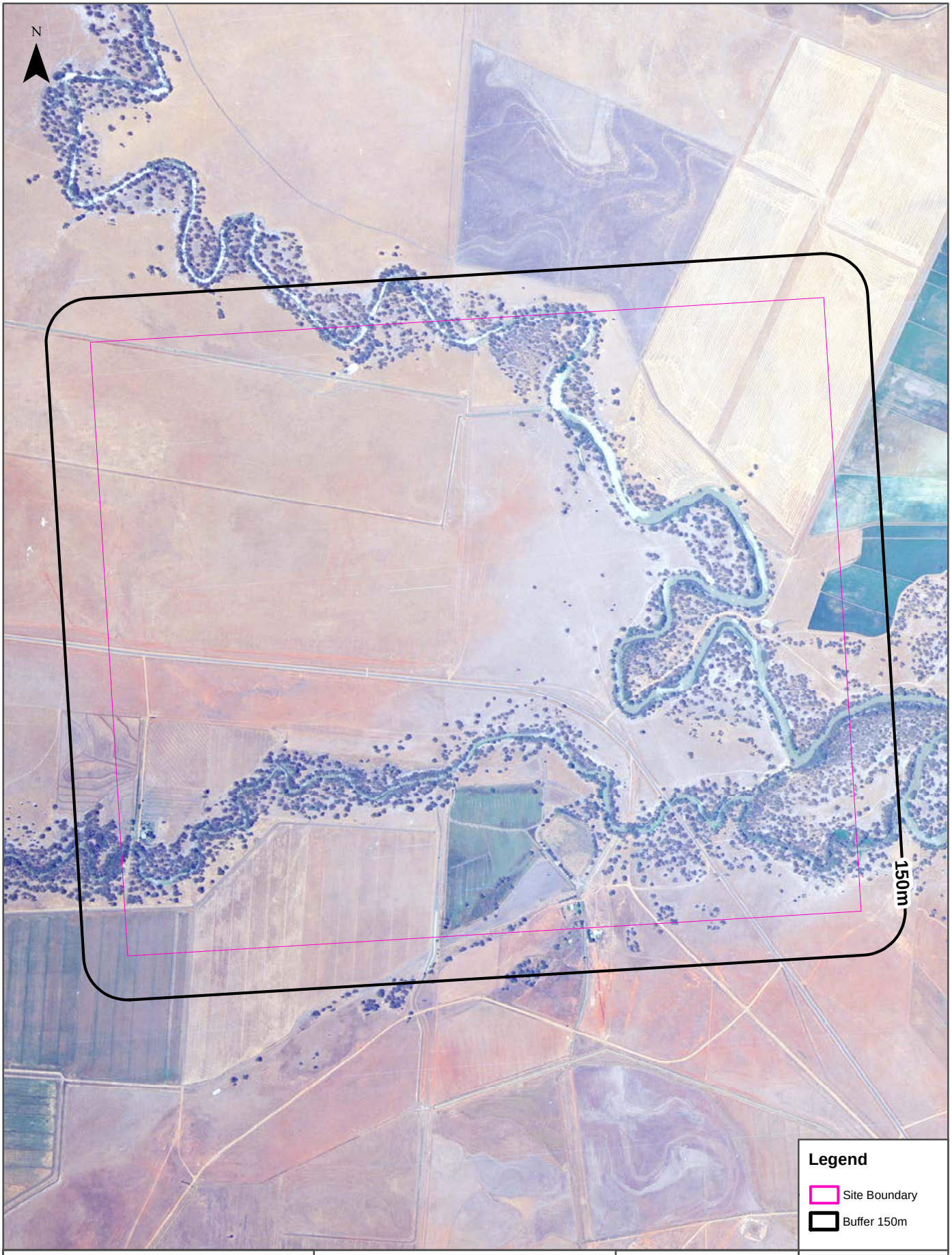
Data Source Aerial Imagery: © 2024 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 56

Date: 07 February 2024

Aerial Imagery 1996

Hartwood Regulator, Hartwood, NSW 2710



Aerial Imagery 1991

Hartwood Regulator, Hartwood, NSW 2710



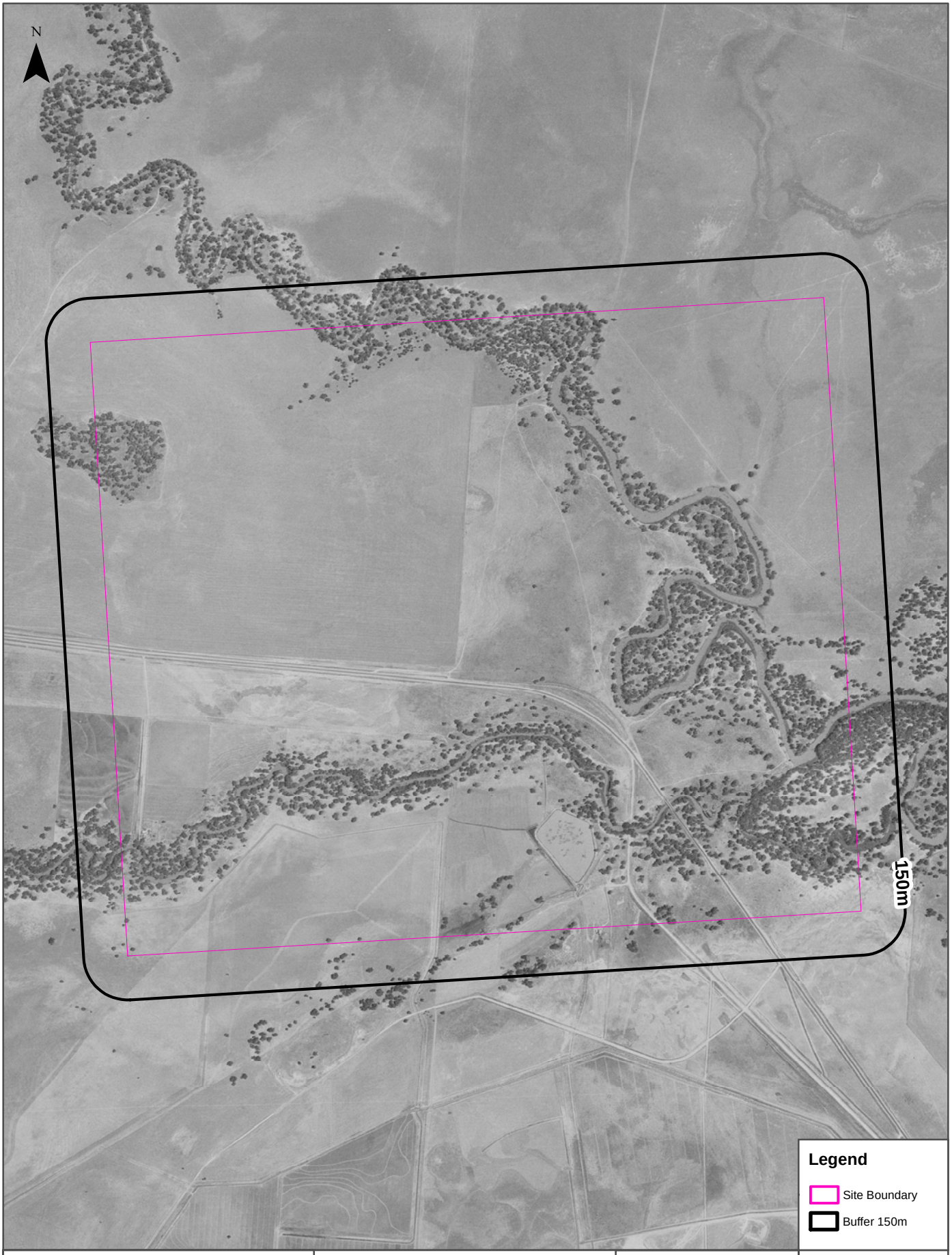
Aerial Imagery 1985

Hartwood Regulator, Hartwood, NSW 2710



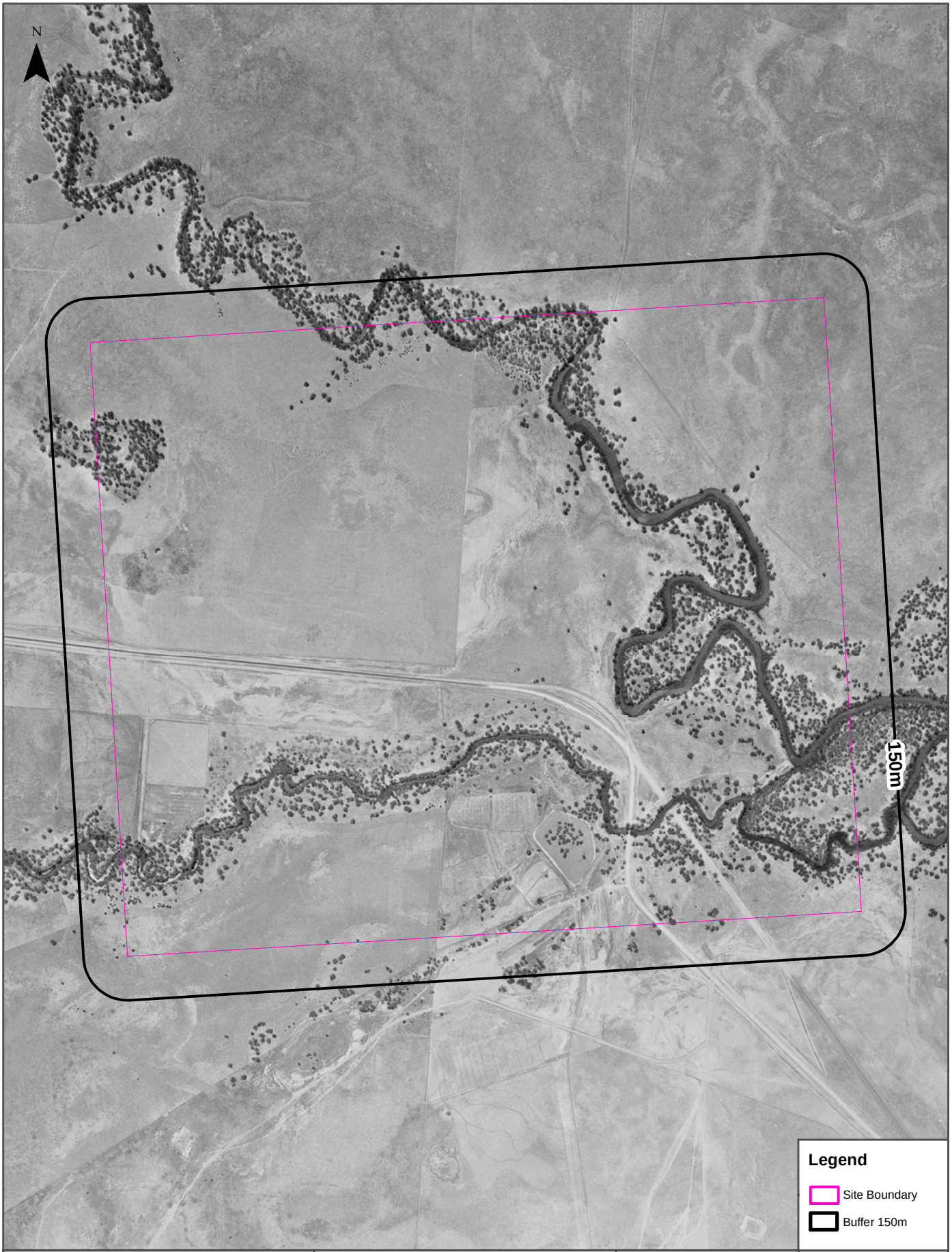
Aerial Imagery 1976

Hartwood Regulator, Hartwood, NSW 2710



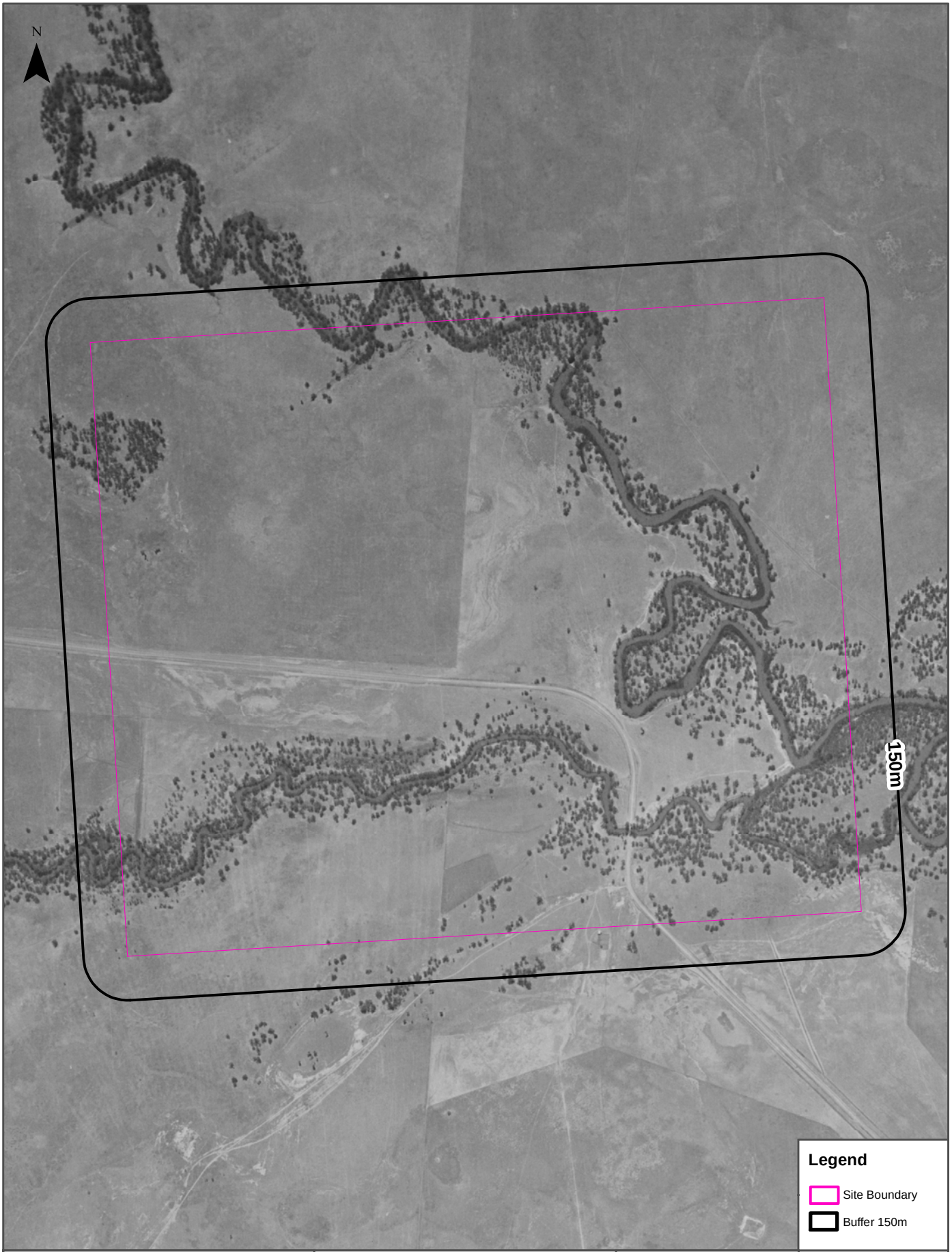
Aerial Imagery 1968

Hartwood Regulator, Hartwood, NSW 2710



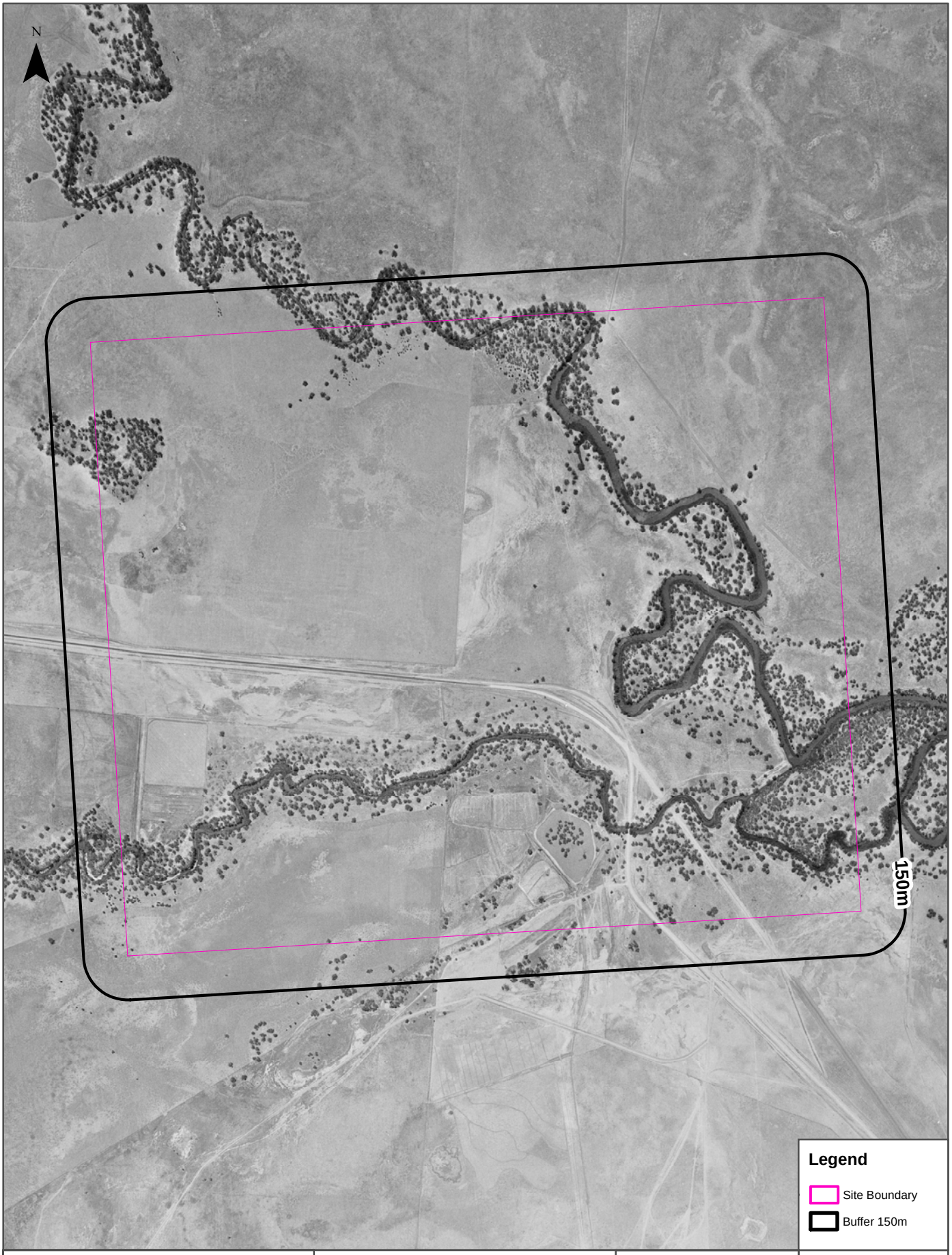
Aerial Imagery 1964

Hartwood Regulator, Hartwood, NSW 2710



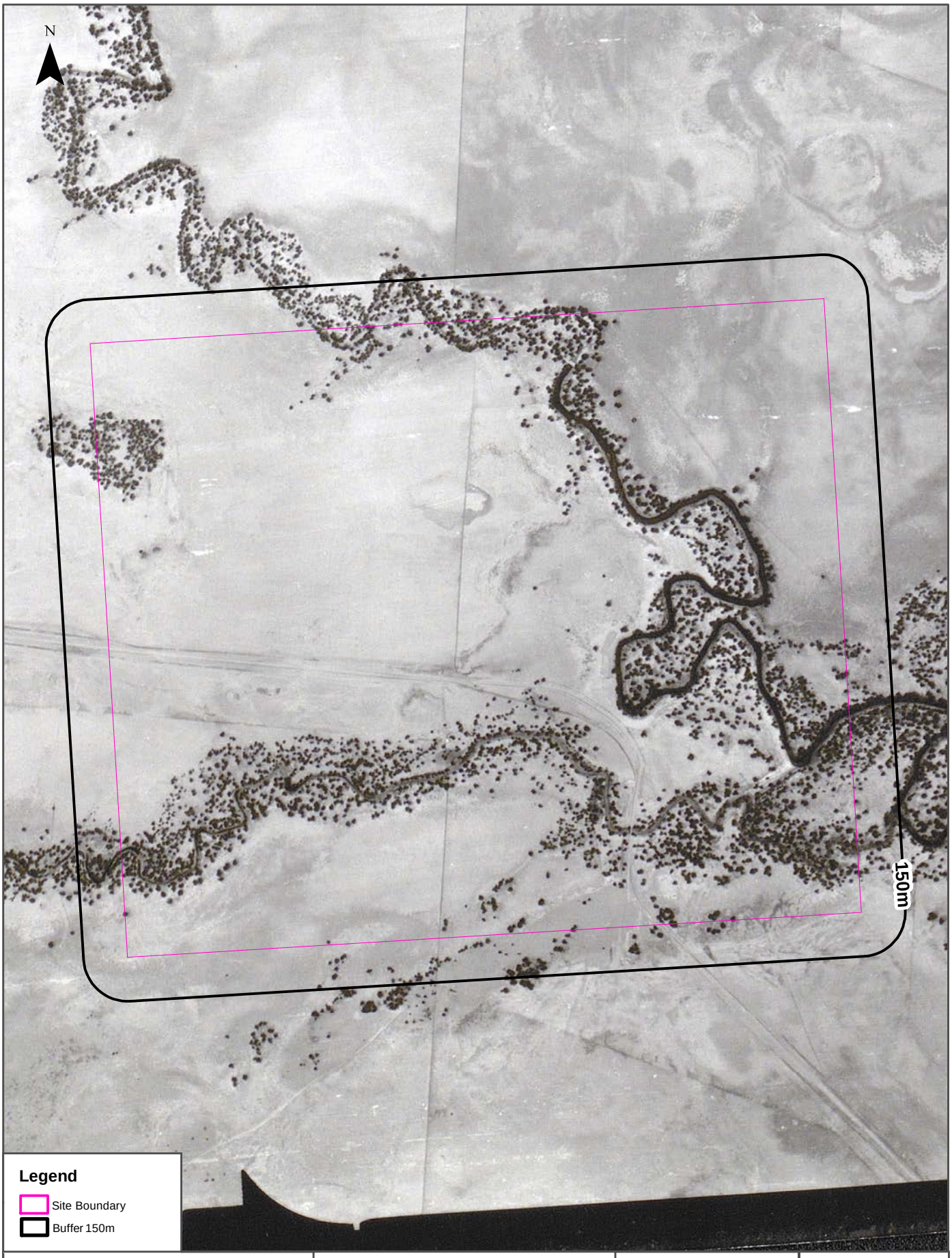
Aerial Imagery 1960

Hartwood Regulator, Hartwood, NSW 2710



Aerial Imagery 1945

Hartwood Regulator, Hartwood, NSW 2710



Scale:
0 210 420 630 840
Meters

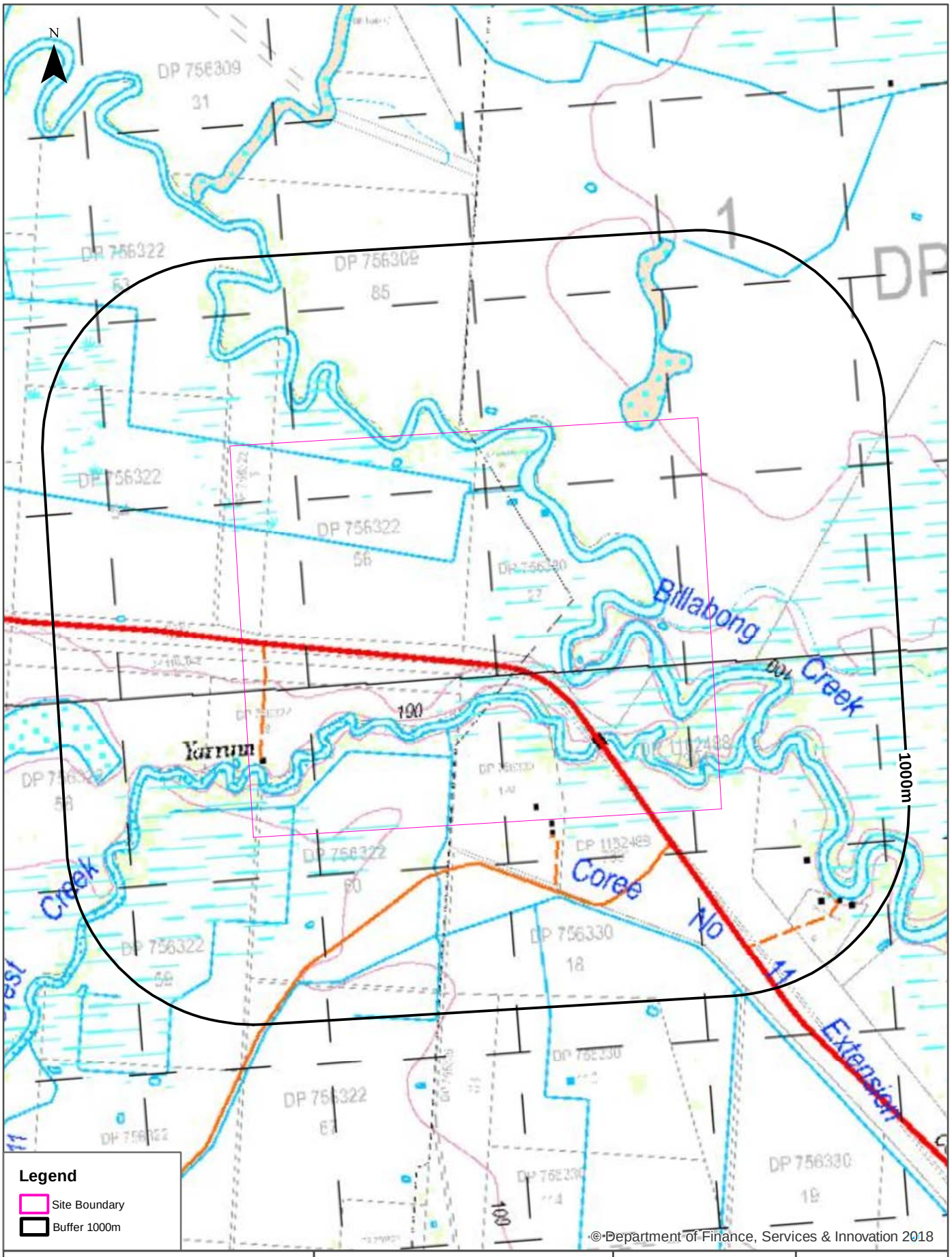
Data Source Aerial Imagery: National Library of Australia

Coordinate System:
GDA 1994 MGA Zone 56

Date: 13 February 2024

Topographic Map 2015

Hartwood Regulator, Hartwood, NSW 2710



Scale:
0 325 650 975 1,300
Meters

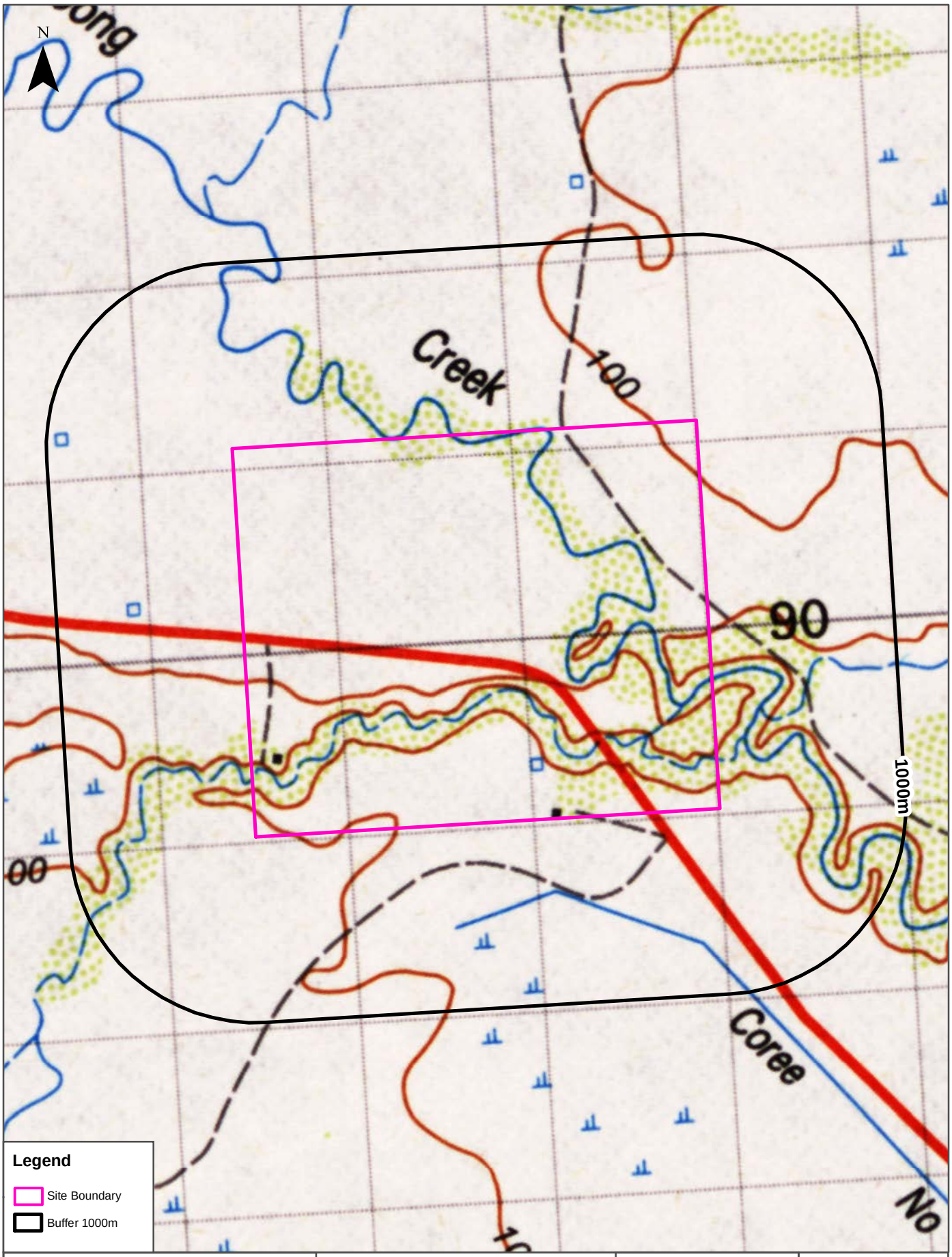
Data Sources: Topographic Map Data
© NSW Land and Property Information

Coordinate System:
GDA 1994 MGA Zone 56

Date: 07 February 2024

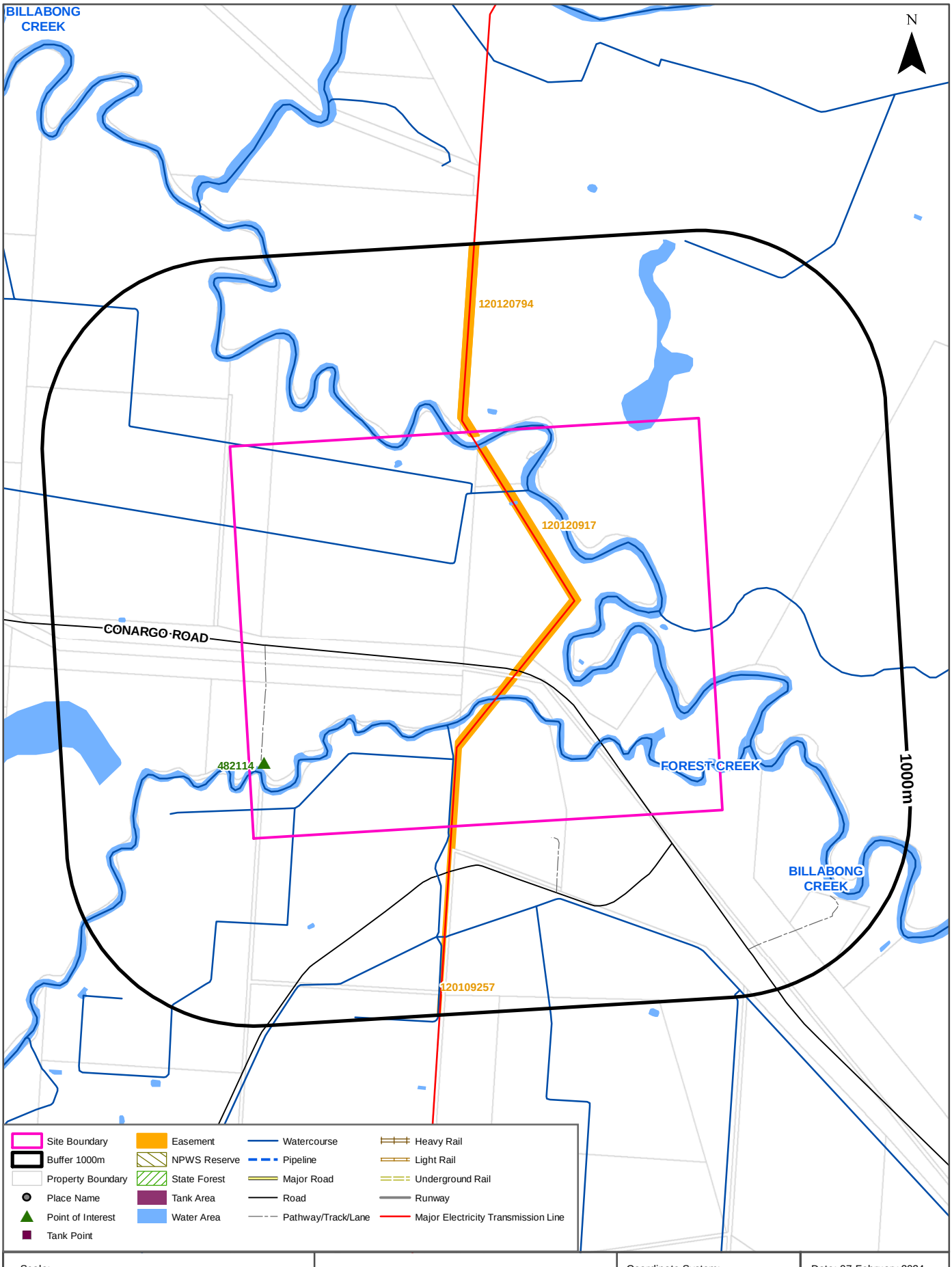
Historical Map 1980

Hartwood Regulator, Hartwood, NSW 2710



Topographic Features

Hartwood Regulator, Hartwood, NSW 2710



Topographic Features

Hartwood Regulator, Hartwood, NSW 2710

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
482114	Homestead	YARRUM	0m	On-site

Topographic Data Source: © Land and Property Information (2015)
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Topographic Features

Hartwood Regulator, Hartwood, NSW 2710

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks (Points)

What are the Tank Points located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks Data Source: © Land and Property Information (2015)
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Major Easements

What Major Easements exist within the dataset buffer?
Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120120794	Primary	Undefined		0m	On-site
120120917	Primary	Undefined		0m	On-site
120109257	Primary	Undefined		893m	South

Easements Data Source: © Land and Property Information (2015)
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Topographic Features

Hartwood Regulator, Hartwood, NSW 2710

State Forest

What State Forest exist within the dataset buffer?

State Forest Number	State Forest Name	Distance	Direction
N/A	No records in buffer		

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018)
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

National Parks and Wildlife Service Reserves

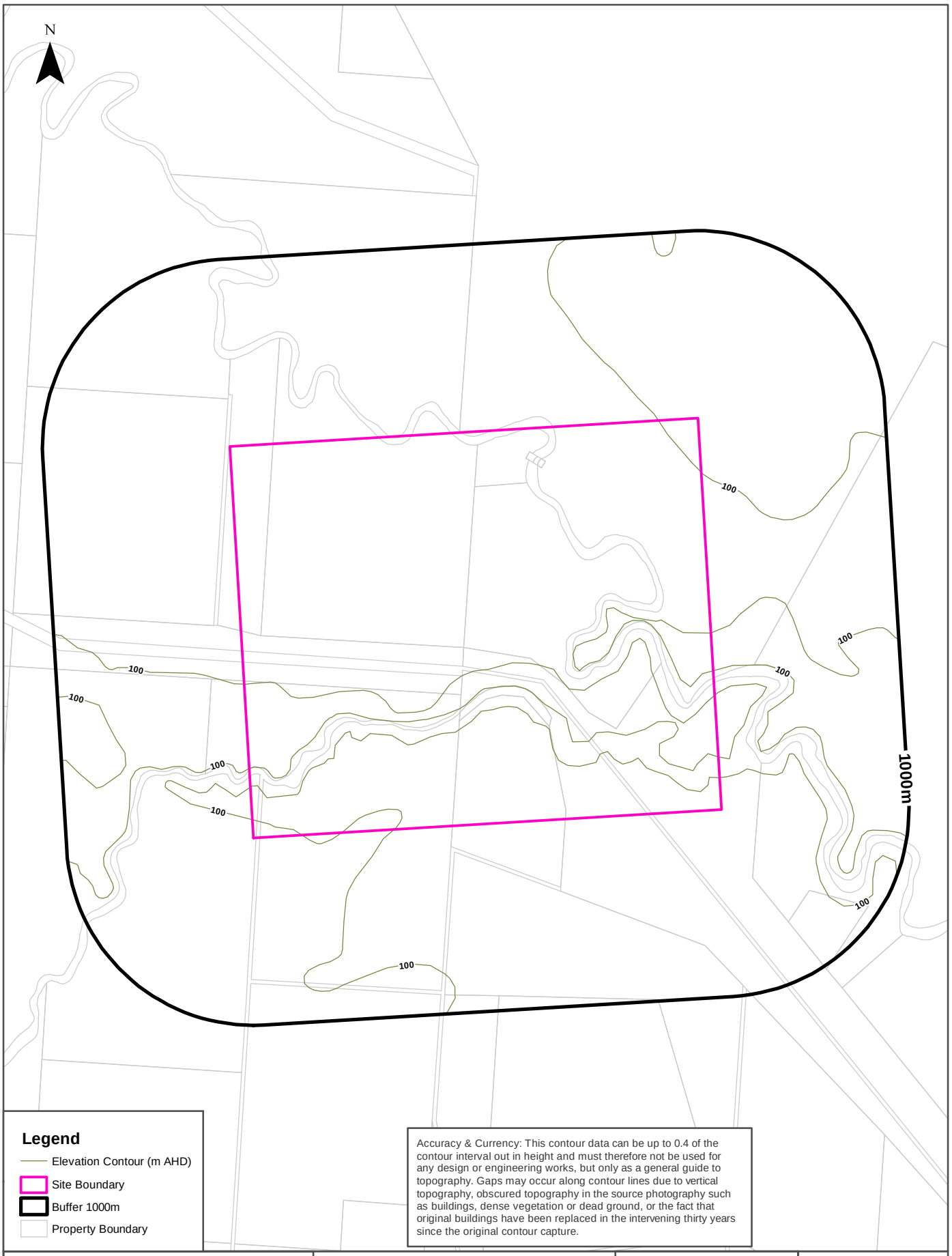
What NPWS Reserves exist within the dataset buffer?

Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N/A	No records in buffer				

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018)
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Elevation Contours (m AHD)

Hartwood Regulator, Hartwood, NSW 2710



Hydrogeology & Groundwater

Hartwood Regulator, Hartwood, NSW 2710

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Porous, extensive aquifers of low to moderate productivity	0m	On-site

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

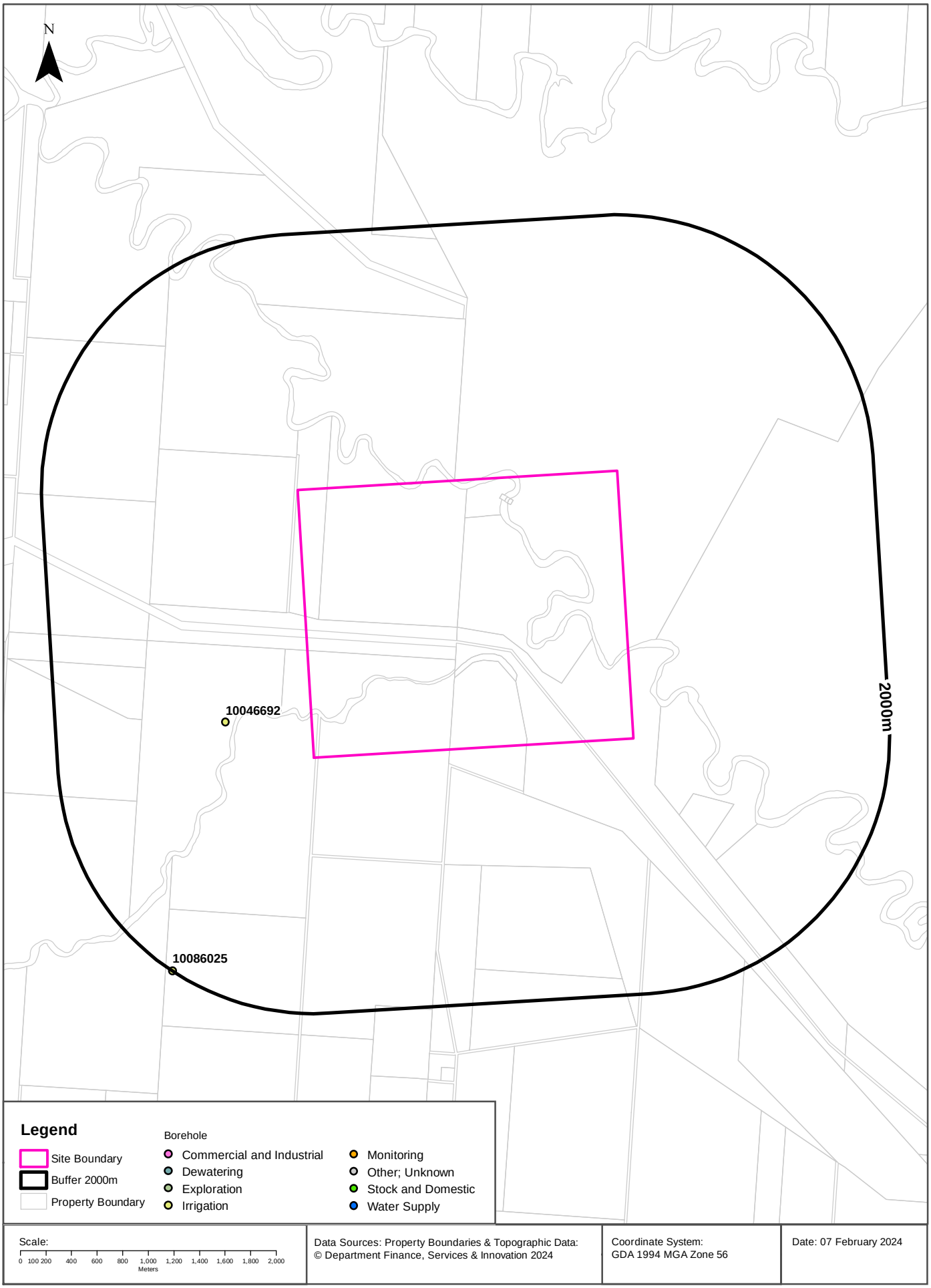
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibition Area No.	Prohibition	Distance	Direction
N/A	No records in buffer		

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source : NSW Department of Primary Industries

Groundwater Boreholes

Hartwood Regulator, Hartwood, NSW 2710



Hydrogeology & Groundwater

Hartwood Regulator, Hartwood, NSW 2710

Groundwater Boreholes

Boreholes within the dataset buffer:

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10046692	GW504186	Irrigation	Functioning	30/11/2008	226.00		AHD	1500	40.000	28.00	670m	South West
10086025	GW500391	Irrigation	Removed	15/04/2004	125.00		AHD		60.000	19.30	1999m	South West

Borehole Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Hydrogeology & Groundwater

Hartwood Regulator, Hartwood, NSW 2710

Driller's Logs

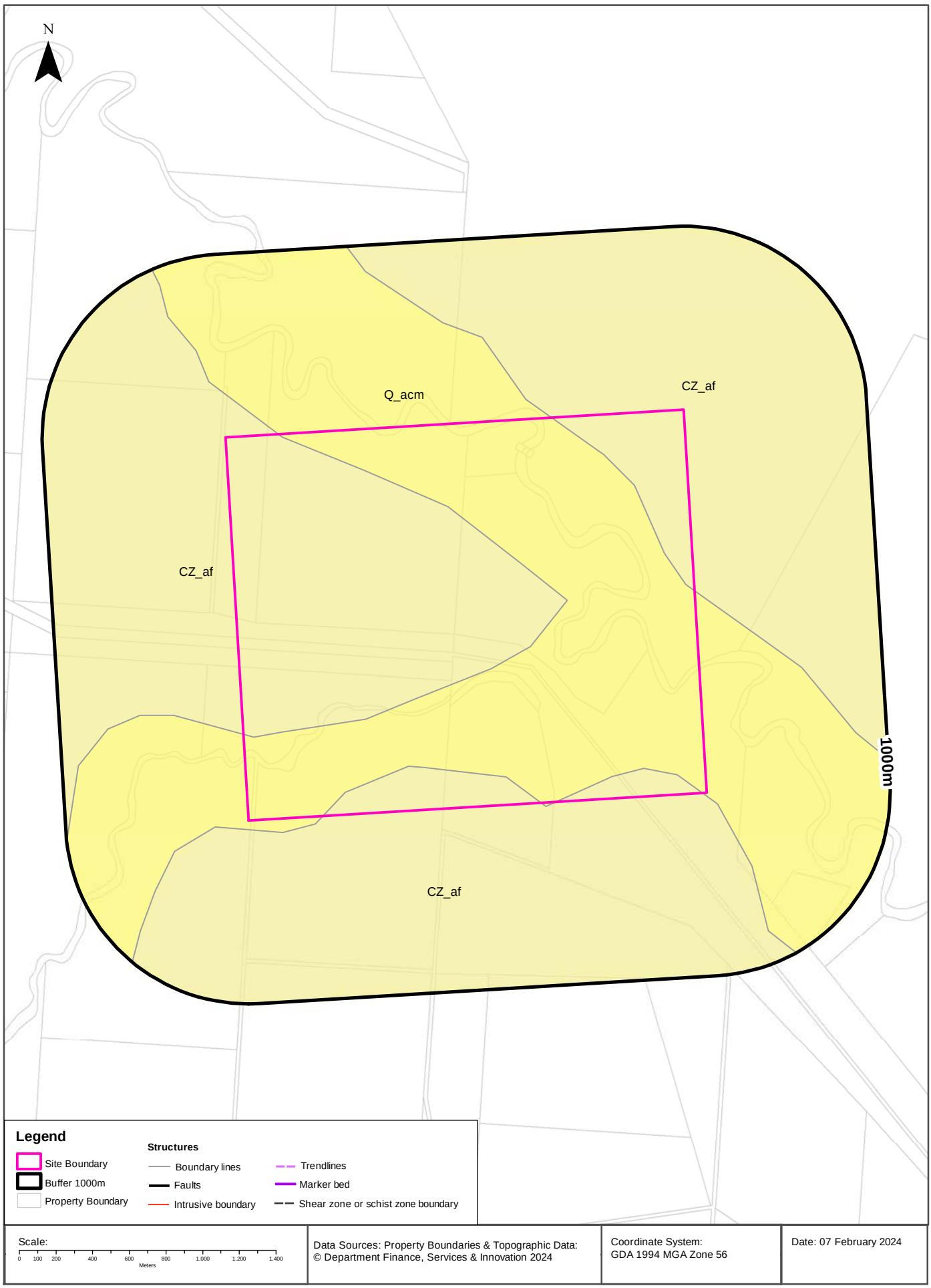
Drill log data relevant to the boreholes within the dataset buffer:

NGIS Bore ID	Drillers Log	Distance	Direction
10046692	0.00m-1.00m Topsoil 1.00m-7.00m Clay 7.00m-9.00m Sand 9.00m-16.00m Clay 16.00m-17.00m Sand 17.00m-33.00m Clay 33.00m-36.00m Sand 36.00m-43.00m Clay 43.00m-46.00m Sand 46.00m-51.00m Clay 51.00m-67.00m Sand 67.00m-96.00m Sand 96.00m-97.00m Clay 97.00m-108.00m Sand 108.00m-124.00m Sand 124.00m-130.00m Sand 130.00m-132.00m Coal 132.00m-136.00m Sand 136.00m-138.00m Coal 138.00m-151.00m Lignite 151.00m-159.00m Sand 159.00m-162.00m Coal 162.00m-172.00m Silt 172.00m-177.00m Sand 177.00m-178.00m Coal 178.00m-185.00m Sand 185.00m-190.00m Coal 190.00m-226.00m Sand	670m	South West
10086025	0.00m-1.00m Clay 1.00m-14.00m Clay 14.00m-19.00m Sand 19.00m-22.00m Clay 22.00m-34.00m Sand 34.00m-37.00m Clay 37.00m-40.00m Sand 40.00m-55.00m Clay 55.00m-61.00m Sand 61.00m-68.00m Clay 68.00m-80.00m Sand 80.00m-84.00m Clay 84.00m-112.00m Sand 112.00m-125.00m Sand 125.00m-127.00m Sand	1999m	South West

Drill Log Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Geology

Hartwood Regulator, Hartwood, NSW 2710



Geology

Hartwood Regulator, Hartwood, NSW 2710

Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Q_acm	Alluvial channel deposits - meander-plain facies	Unconsolidated grey humic, clayey very fine-grained sand, typically overlying light brown clayey silt.	\Alluvium\\Alluvial channel deposits\Alluvial channel deposits - meander-plain facies\	Quaternary (base) to Now (top)	Clastic sediment	0m
CZ_af	Alluvial floodplain deposits	Silt, very fine- to medium-grained lithic to quartz-rich sand, clay.	\Alluvium\\Alluvial floodplain deposits\\	Cenozoic (base) to Now (top)	Silt	0m

Linear Geological Structures

What are the Dyke, Sill, Fracture, Lineament and Vein trendlines within the dataset buffer?

Map ID	Feature Description	Map Sheet Name	Distance
No Features			

What are the Faults, Shear zones or Schist zones, Intrusive boundaries & Marker beds within the dataset buffer?

Map ID	Boundary Type	Description	Map Sheet Name	Distance
No Features				

Geological Data Source: Statewide Seamless Geology v2.1, Department of Regional NSW
Creative Commons 4.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/4.0/au/deed.en

Naturally Occurring Asbestos Potential

Hartwood Regulator, Hartwood, NSW 2710

Naturally Occurring Asbestos Potential

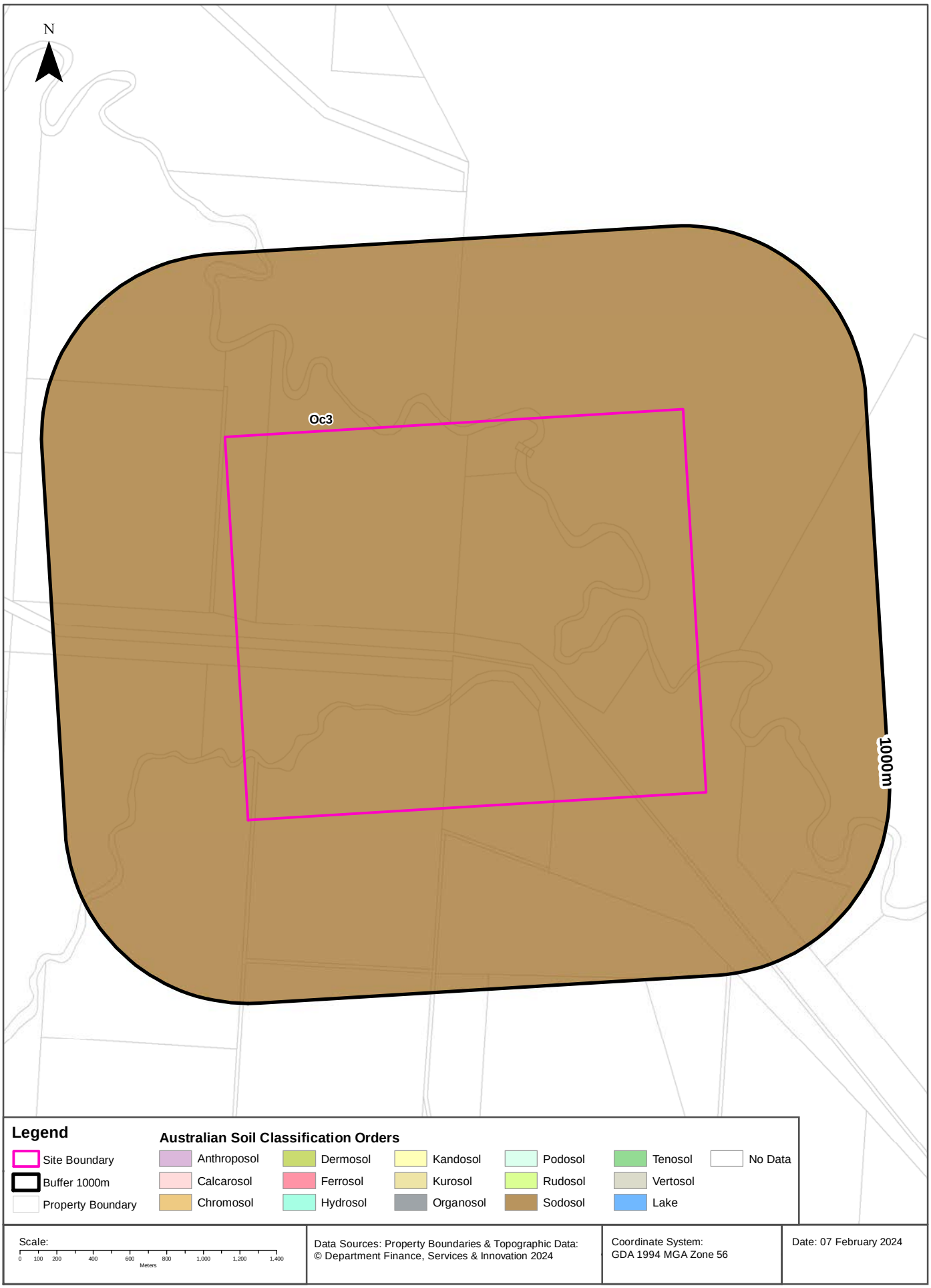
Naturally Occurring Asbestos Potential within the dataset buffer:

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Naturally Occurring Asbestos Potential Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

Atlas of Australian Soils

Hartwood Regulator, Hartwood, NSW 2710



Soils

Hartwood Regulator, Hartwood, NSW 2710

Atlas of Australian Soils

Soil mapping units and Australian Soil Classification orders within the dataset buffer:

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Oc3	Sodosol	Plains with domes, lunettes, and swampy depressions, and divided by continuous or discontinuous low river ridges associated with prior stream systems--the whole traversed by present stream valleys; layered soil or sedimentary materials common at fairly shallow depths: chief soils are hard alkaline red soils (Dr2.33), grey and brown cracking clays, commonly (Ug5.24) and (Ug5.35), and other (D) soils in a complex soil pattern with the following general features: (i) well-drained to moderately drained plains of (Dr2.33) with (Db1.33 and Db1.43), often with thin A horizons (<4 in. thick); (ii) moderately to poorly drained gilgai plains subject to some seasonal flooding of (Ug5.3), (Dr2.33), (Db1.43), (Dy2.33 and Dy2.43), and (Ug5.2) soils; (iii) poorly drained gilgai plains subject to frequent seasonal flooding of (Ug5.2), (Ug5.3), (Db1.43), (Dy2.43), (Dd1.33 and Dd1.43), and (Ug5.4) soils; (iv) swampy depressions of (Dd1.33 and Dd1.43), (Db1.43), (Dy2.43), (Dy3.43), and (Ug5) soils; (v) domes and/or lunettes on the plains of (Dr2.33), (Gn2.13), (Dy5.33), or (DrS.33) soils; (vi) river ridges of moderate relief have (Dr2.33), (Dr2.43), ?(Dr2.23), and in some places (Gn2.13) soils; (vii) sandy river ridges and sand-hills have (Uc1.2), (Dy5.33), and (DrS.33) soils; (viii) prior stream beds have various "welldrained" soils; (ix) present stream valleys have flood-plains and terraces of (Dy3.4), (Gn), and (Um) soils. As mapped, areas of unit CC3 may be included.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO
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Acid Sulfate Soils

Hartwood Regulator, Hartwood, NSW 2710

Environmental Planning Instrument - Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

Soil Class	Description	EPI Name
N/A		

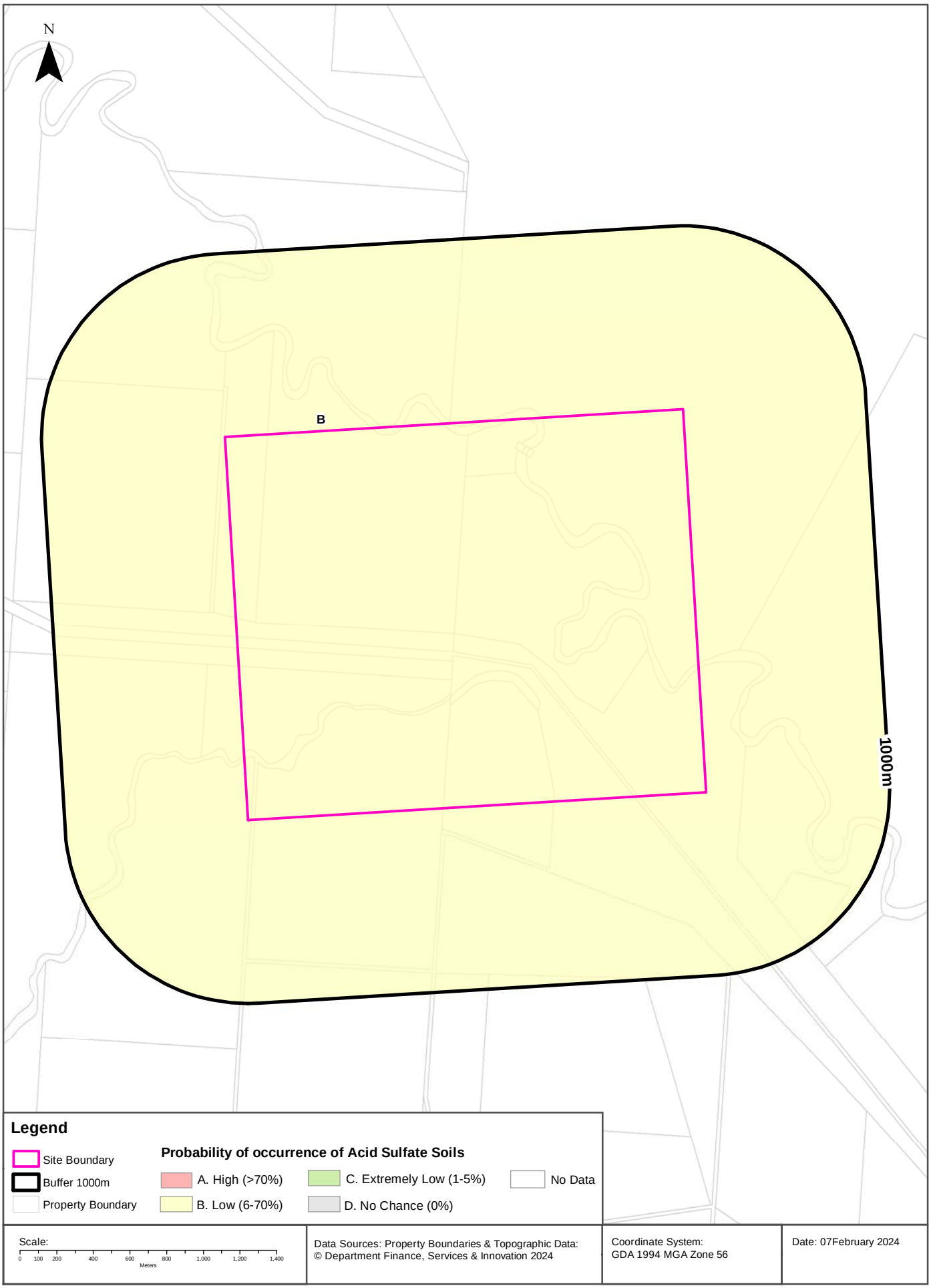
If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
N/A				

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Atlas of Australian Acid Sulfate Soils

Hartwood Regulator, Hartwood, NSW 2710



Acid Sulfate Soils

Hartwood Regulator, Hartwood, NSW 2710

Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance	Direction
B	Low Probability of occurrence. 6-70% chance of occurrence.	0m	On-site

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO
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Dryland Salinity

Hartwood Regulator, Hartwood, NSW 2710

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A		

Dryland Salinity Data Source : National Land and Water Resources Audit
The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.
In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Mining

Hartwood Regulator, Hartwood, NSW 2710

Mining Subsidence Districts

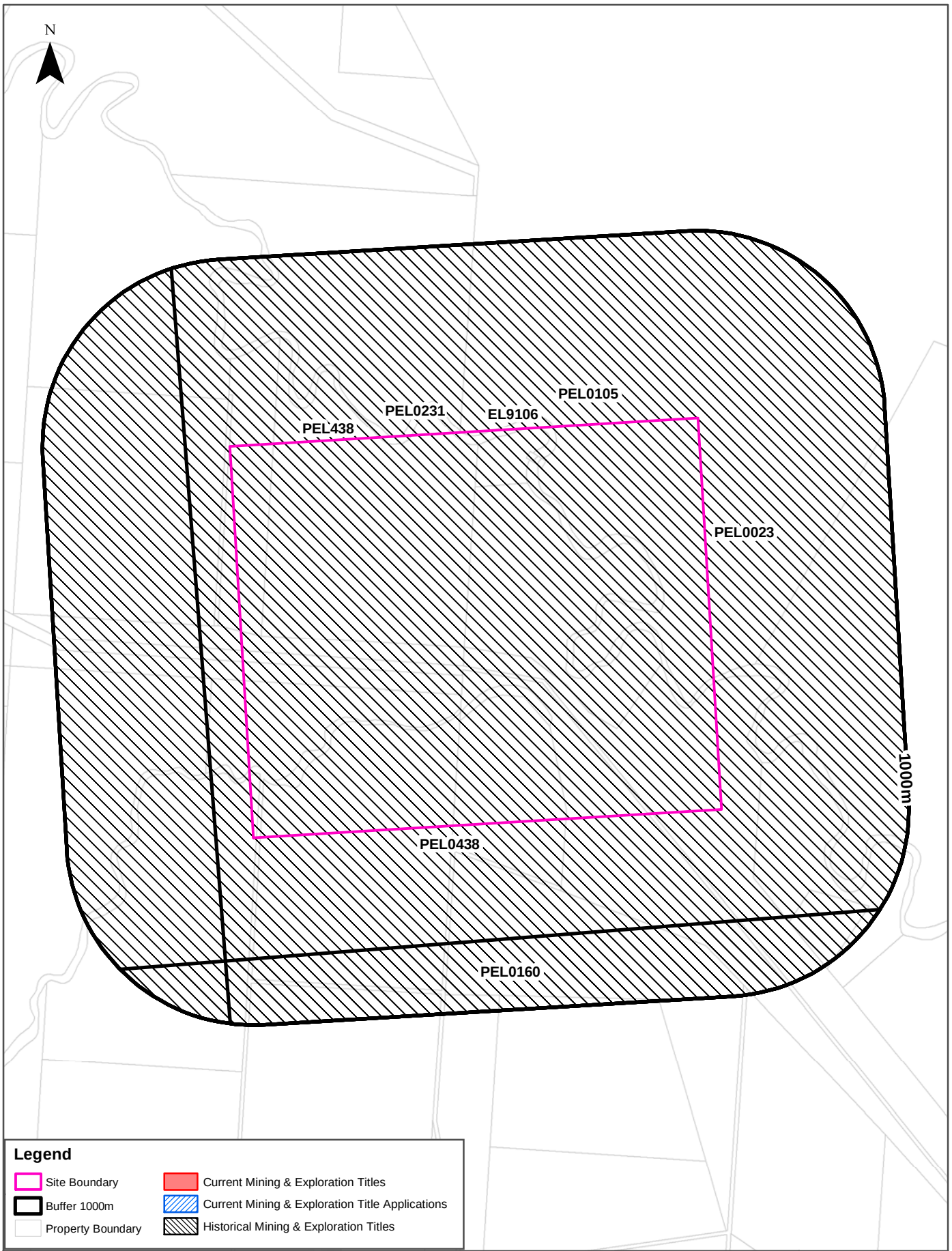
Mining Subsidence Districts within the dataset buffer:

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)
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Mining & Exploration Titles

Hartwood Regulator, Hartwood, NSW 2710



Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 07 February 2024

Mining

Hartwood Regulator, Hartwood, NSW 2710

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Grant Date	Expiry Date	Last Renewed	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer								

Current Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

Application Ref	Applicant	Application Date	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer						

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

Mining

Hartwood Regulator, Hartwood, NSW 2710

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
PEL438	APPLEGATE EXPLORATION, LLC,PANNONIAN INTERNATIONAL LTD	20010821	30000101	MINERALS		0m	On-site
PEL0438	PANNONIAN INTERNATIONAL LTD	20020908	20060410	PETROLEUM	Petroleum	0m	On-site
PEL0231	MEEKATHARRA MINERALS LTD		19841009	PETROLEUM	Petroleum	0m	On-site
EL9106	VIEWMONT GOLD PTY LTD	20210317	30000101	MINERALS		0m	On-site
PEL0023	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL0105	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL0160	PLANET EXPLORATION COMPANY PTY LTD			PETROLEUM	Petroleum	598m	South

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

State Environmental Planning Policy

Hartwood Regulator, Hartwood, NSW 2710

State Significant Precincts

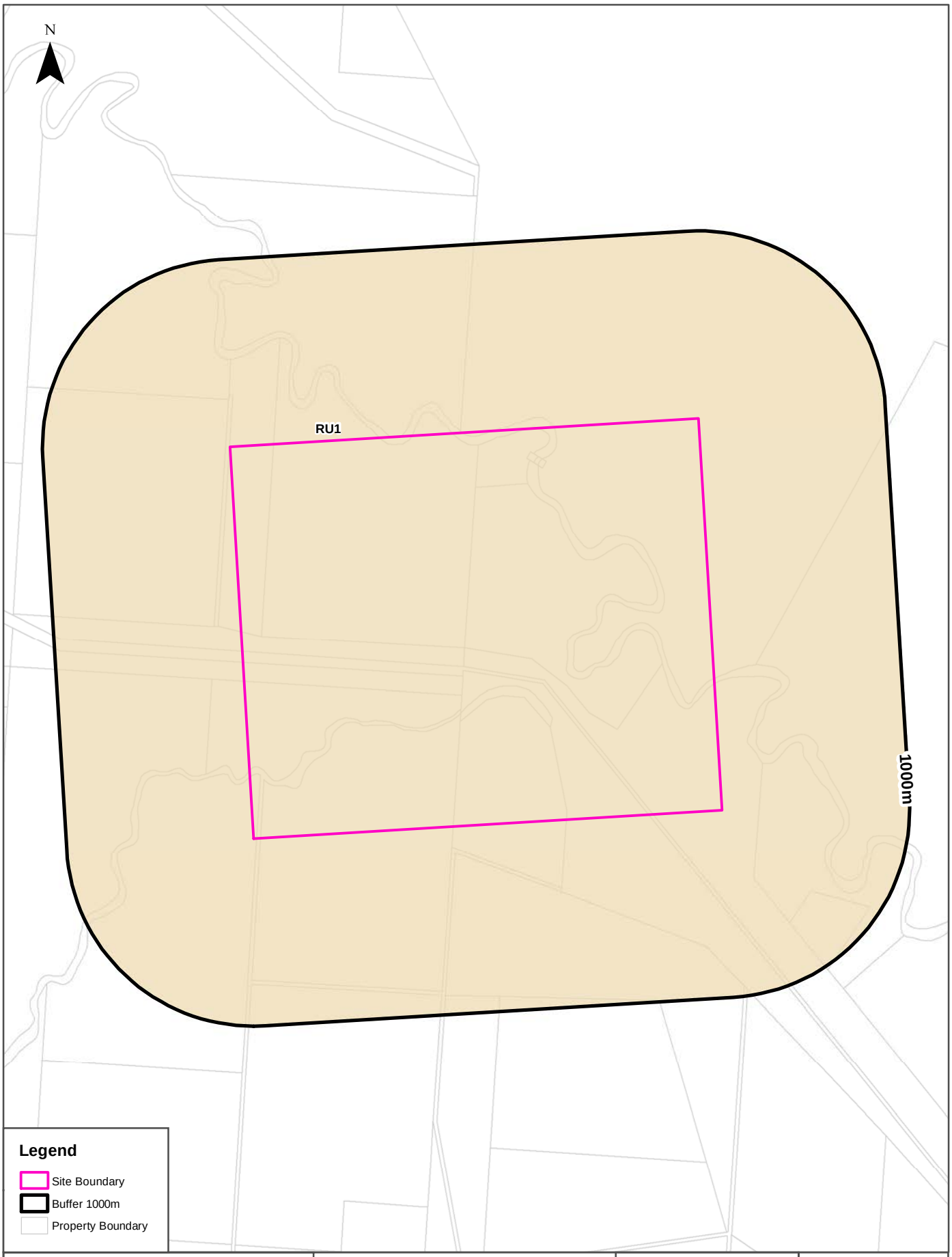
What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
N/A	No records in buffer							

State Environment Planning Policy Data Source: NSW Crown Copyright - Planning & Environment
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EPI Planning Zones

Hartwood Regulator, Hartwood, NSW 2710



Environmental Planning Instrument

Hartwood Regulator, Hartwood, NSW 2710

Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RU1	Primary Production		Conargo Local Environmental Plan 2013	23/08/2013	23/08/2013	01/12/2021		0m	On-site

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Heritage

Hartwood Regulator, Hartwood, NSW 2710

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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National Heritage List

What are the National Heritage List Items located within the dataset buffer?
Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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State Heritage Register - Curtilages

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage
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Environmental Planning Instrument - Heritage

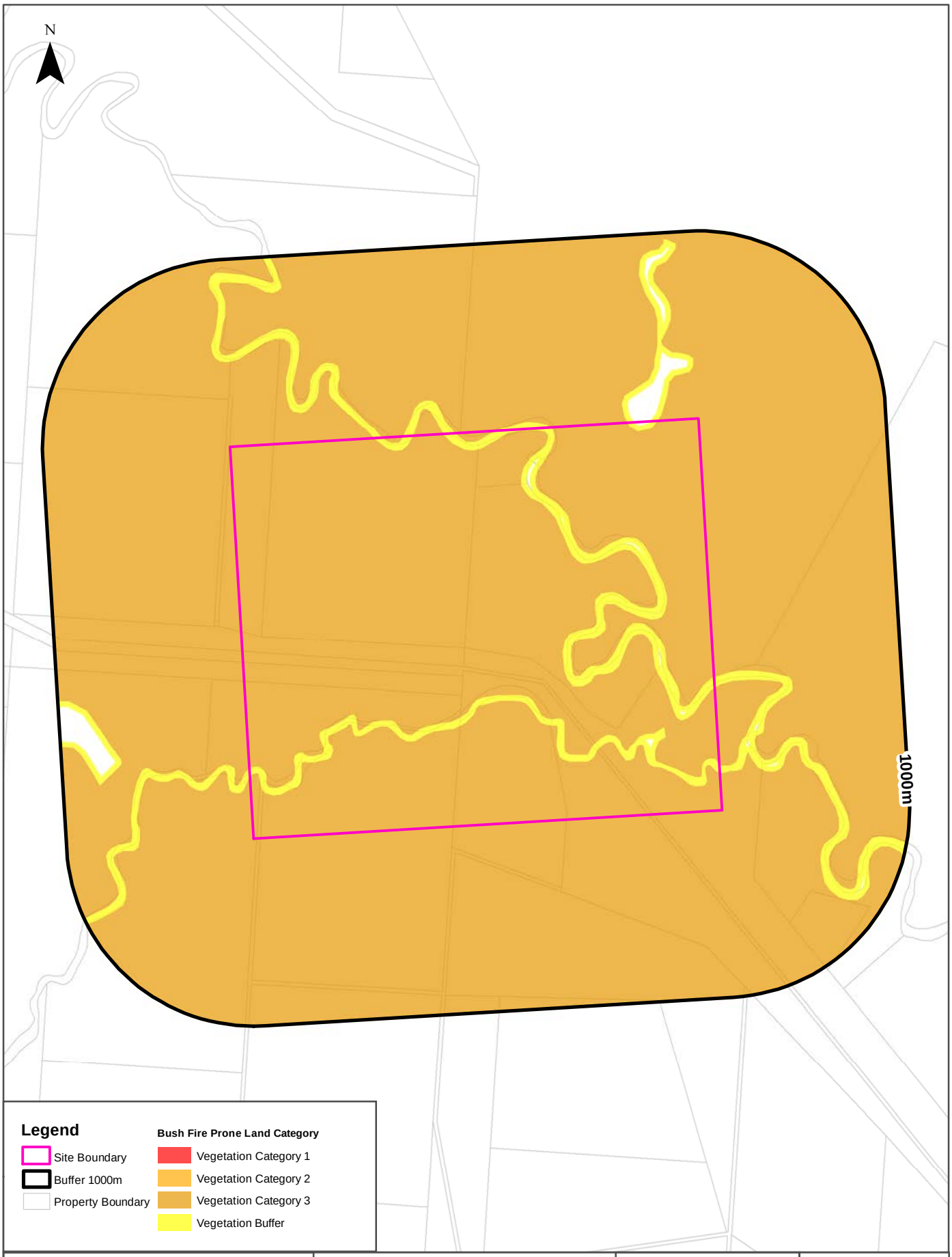
What are the EPI Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
N/A	No records in buffer								

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Natural Hazards - Bush Fire Prone Land

Hartwood Regulator, Hartwood, NSW 2710



Data Sources: Bush Fire Prone Land: © NSW Rural Fire Service 2024. Property Boundaries: © Department Finance, Services & Innovation 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 07 February 2024

Natural Hazards

Hartwood Regulator, Hartwood, NSW 2710

Bush Fire Prone Land

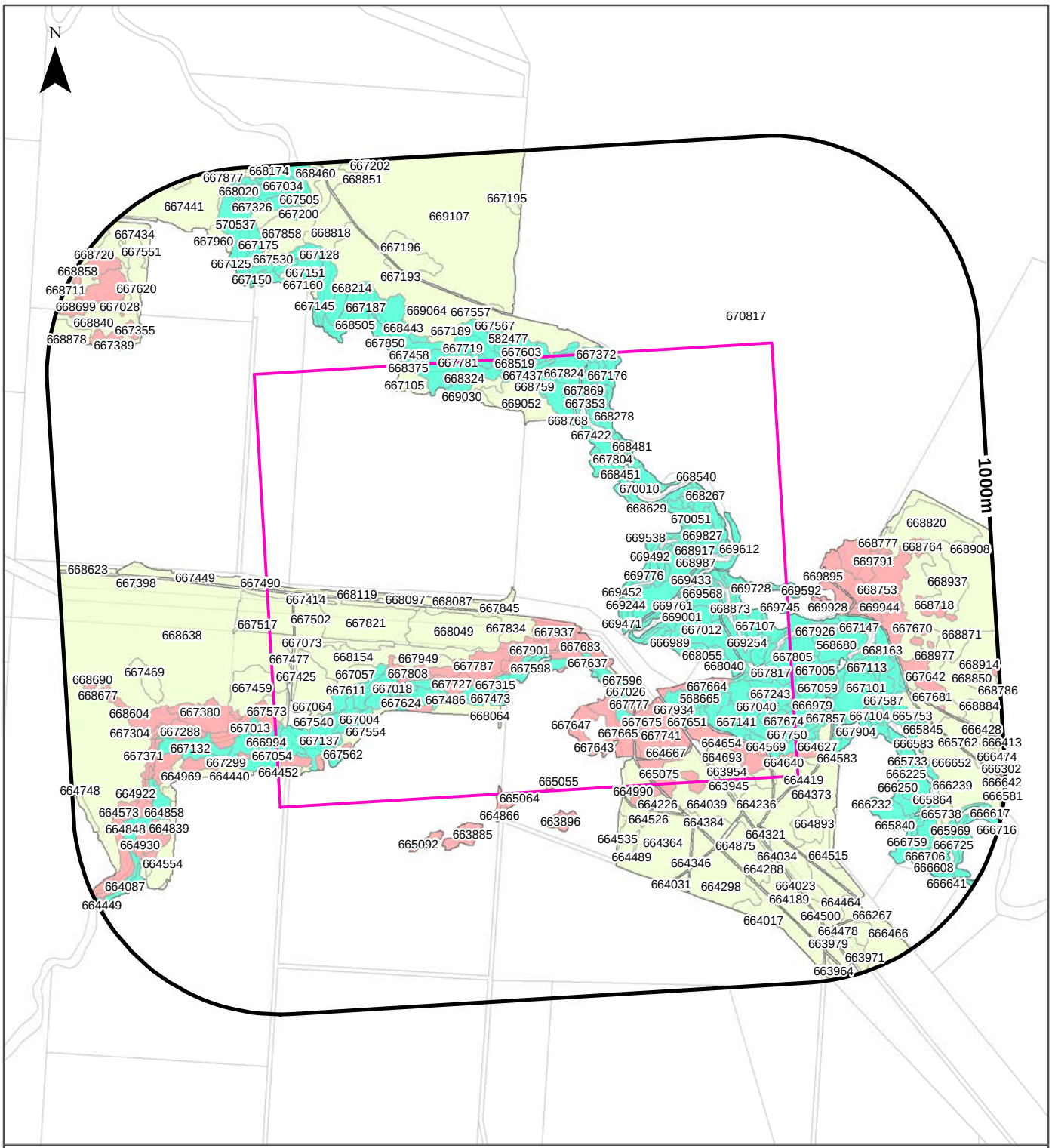
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
Vegetation Category 3	0m	On-site
Vegetation Buffer	0m	On-site

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

Ecological Constraints - Vegetation & Ramsar Wetlands

Hartwood Regulator, Hartwood, NSW 2710



Ecological Constraints

Hartwood Regulator, Hartwood, NSW 2710

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
379019	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
568656	Not classified	(Not classified) Not classified	Not classified	0m	On-site
568665	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
576649	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
663945	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
663954	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
664039	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
664256	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
664395	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
664419	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
664430	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
664452	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
664543	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
664569	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
664640	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
664654	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
664667	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
664678	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
664693	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
664866	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box grassy open woodland wetland of rarely flooded depressions in south western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
664911	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
664950	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
664980	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
664999	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
665046	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
665055	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
665075	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
666979	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
666989	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
666994	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667004	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667005	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667012	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667018	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667020	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667026	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667040	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667054	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667057	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667059	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667064	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667073	Not classified	(Not classified) Not classified	Not classified	0m	On-site

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
667082	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667105	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667107	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667110	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667137	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667141	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667176	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667180	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667191	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667243	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667254	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667270	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667289	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667297	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667305	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667313	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667315	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667316	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667334	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667353	Not classified	(Not classified) Not classified	Not classified	0m	On-site
667372	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
667407	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667414	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667422	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667425	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667427	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667437	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667442	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667449	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667458	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667459	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667473	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667477	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667484	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667486	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667490	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667496	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667502	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667517	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667540	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667554	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667562	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667566	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667573	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667576	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667589	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
667596	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667598	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667603	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667611	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667624	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667631	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667633	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667637	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667643	Not classified	(Not classified) Not classified	Not classified	0m	On-site
667647	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667651	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
667656	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667664	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667665	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667674	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
667675	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667683	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667711	Not classified	(Not classified) Not classified	Not classified	0m	On-site
667719	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667722	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
667727	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667741	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667750	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
667754	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667763	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667777	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667781	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667787	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667797	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667804	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667805	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
667808	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667817	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
667821	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667824	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667834	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667835	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667845	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667846	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667869	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667870	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site

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667880	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667896	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
667901	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667914	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667926	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667927	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
667934	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
667937	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
667949	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
668002	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
668019	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
668031	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
668040	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
668049	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
668055	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
668064	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
668076	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
668087	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
668097	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
668119	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
668154	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
668267	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668278	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668324	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668358	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site

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668368	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668375	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668378	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668451	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668481	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668491	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668493	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668519	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668540	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668582	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668596	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668618	Forested Wetlands	(Forested Wetlands) River Red Gum - Lignum very tall open forest or woodland wetland on floodplains of semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668629	Forested Wetlands	(Forested Wetlands) River Red Gum - Lignum very tall open forest or woodland wetland on floodplains of semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668638	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
668713	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668759	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668768	Forested Wetlands	(Forested Wetlands) River Red Gum - Lignum very tall open forest or woodland wetland on floodplains of semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668780	Forested Wetlands	(Forested Wetlands) River Red Gum - Lignum very tall open forest or woodland wetland on floodplains of semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668792	Forested Wetlands	(Forested Wetlands) River Red Gum - Lignum very tall open forest or woodland wetland on floodplains of semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
668873	Not classified	(Not classified) Not classified	Not classified	0m	On-site

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668893	Not classified	(Not classified) Not classified	Not classified	0m	On-site
668917	Not classified	(Not classified) Not classified	Not classified	0m	On-site
668934	Not classified	(Not classified) Not classified	Not classified	0m	On-site
668953	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
668970	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
668987	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
669001	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
669023	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
669030	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
669041	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669052	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
669072	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669092	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669182	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669209	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669232	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669244	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669254	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669265	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669276	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669289	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669310	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669354	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669374	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site

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669433	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669452	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669471	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669492	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669507	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669522	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669538	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669553	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669568	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669581	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669592	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669612	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669628	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669644	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669658	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669673	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669690	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669705	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669728	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669745	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site

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669761	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669776	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669827	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669877	Forested Wetlands	(Forested Wetlands) River Red Gum - Lignum very tall open forest or woodland wetland on floodplains of semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
669962	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
669979	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
669992	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
670010	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
670051	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
670067	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
670112	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
670817	Not classified	(Not classified) Not classified	Not classified	0m	On-site
667132	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	South West
667143	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	South West
669064	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	North
667944	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	1m	South East
667857	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	3m	South East
664247	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	5m	South East
664990	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	7m	South East
665064	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box grassy open woodland wetland of rarely flooded depressions in south western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	8m	South
667850	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	8m	North West
668391	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	8m	North

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664226	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	13m	South East
663904	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box grassy open woodland wetland of rarely flooded depressions in south western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	14m	South
667013	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	23m	South West
668012	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	25m	South East
664236	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	30m	South East
664627	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	30m	South East
668443	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	31m	North West
666983	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	33m	South West
664364	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	40m	South East
664373	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	42m	South East
664407	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	50m	South West
667189	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	61m	North
668258	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	84m	North
667890	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	86m	South East
582477	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	89m	North
663896	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box grassy open woodland wetland of rarely flooded depressions in south western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	96m	South
667045	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	98m	South West
667655	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	104m	North West
568680	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	105m	East
664722	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	107m	South East
667567	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	107m	North
669928	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	113m	East
664440	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	118m	South West
664535	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	118m	South

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664526	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	123m	South East
664893	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	123m	South East
664384	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	124m	South East
667187	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	127m	North West
663885	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box grassy open woodland wetland of rarely flooded depressions in south western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	129m	South
667280	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	131m	South West
664583	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	139m	South East
669895	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	146m	East
667075	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	149m	East
669332	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	151m	East
667913	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	156m	South East
664606	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	161m	South East
665092	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box grassy open woodland wetland of rarely flooded depressions in south western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	161m	South
667343	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	161m	South West
668753	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	164m	East
667380	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	168m	South West
664189	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	169m	South East
664613	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	169m	South East
664595	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	176m	South East
667904	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	181m	South East
667299	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	184m	South West
560692	Not classified	(Not classified) Not classified	Not classified	186m	East
667101	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	186m	East

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668505	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	187m	North West
664875	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	204m	South East
664346	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	206m	South East
666975	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	214m	South West
667145	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	215m	North West
668214	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	215m	North West
669107	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	215m	North
664489	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	217m	South
667128	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	218m	North West
667699	Not classified	(Not classified) Not classified	Not classified	219m	East
668163	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	219m	East
667557	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	221m	North
668738	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	227m	North
667738	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	228m	East
664515	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	249m	South East
669791	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	249m	East
664321	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	252m	South East
667147	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	272m	East
669911	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	283m	East
664288	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	297m	South East
667113	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	300m	East
669944	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	310m	East
667606	Not classified	(Not classified) Not classified	Not classified	312m	East
664298	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	322m	South East

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
667120	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	332m	South East
667288	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	332m	South West
664969	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	345m	South West
666851	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	345m	South East
667104	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	345m	East
667160	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	345m	North West
667587	Not classified	(Not classified) Not classified	Not classified	352m	East
666232	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	362m	South East
667099	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	362m	South East
667139	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	371m	East
664034	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	375m	South East
667151	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	398m	North West
668777	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	404m	East
664500	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	405m	South East
667193	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	413m	North West
667166	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	416m	North West
667196	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	418m	North
667607	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	423m	East
664031	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	428m	South East
666214	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	428m	South East
667150	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	428m	North West
667588	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	436m	North West
665733	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	443m	South East
666583	Not classified	(Not classified) Not classified	Not classified	443m	South East

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664023	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	447m	South East
668820	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	450m	East
664266	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	453m	South West
667363	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	459m	South West
666250	Forested Wetlands	(Forested Wetlands) River Red Gum - Lignum very tall open forest or woodland wetland on floodplains of semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	461m	South East
667304	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	461m	West
666225	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	462m	South East
668908	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	463m	East
667117	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	464m	North West
665753	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	465m	East
664017	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	468m	South East
667125	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	474m	North West
667565	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	475m	East
667594	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	475m	East
667036	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	476m	North West
663918	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	498m	South West
667219	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	498m	South West
664554	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	503m	South West
666652	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	508m	South East
667619	Forested Wetlands	(Forested Wetlands) River Red Gum - Lignum very tall open forest or woodland wetland on floodplains of semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	511m	East
667670	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	513m	East
667175	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	514m	North West
667530	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	517m	North West
665840	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	521m	South East

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664858	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	526m	South West
667469	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	531m	West
667629	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	531m	East
664839	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	535m	South West
667157	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	537m	North West
664848	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	542m	South West
667269	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	544m	South West
667858	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	549m	North West
664930	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	550m	South West
667658	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	553m	East
667645	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	558m	East
667324	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	561m	South West
666759	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	565m	South East
666197	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	567m	South East
665864	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	568m	South East
668818	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	569m	North West
668840	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	571m	North West
667371	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	573m	South West
665845	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	574m	East
668729	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	576m	East
667398	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	583m	West
667355	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box open woodland wetland with chenopod understorey mainly on the outer floodplains in south-western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	586m	North West
666574	Not classified	(Not classified) Not classified	Not classified	591m	South East
667681	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	594m	East

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664829	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	596m	South West
664884	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	596m	South West
667960	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	596m	North West
666706	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	597m	South East
668871	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	601m	East
666691	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	604m	South East
668764	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	606m	East
664922	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	614m	South West
665689	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	616m	South East
664464	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	618m	South East
667620	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	618m	North West
668696	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	619m	East
570537	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	620m	North West
666202	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	623m	South East
664940	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	624m	South West
664961	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	625m	South West
668737	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	626m	East
666660	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	634m	South East
668718	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	634m	East
667642	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	636m	East
668937	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	644m	East
665836	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	650m	South East
664308	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	656m	South West

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667389	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box grassy open woodland wetland of rarely flooded depressions in south western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	658m	North West
668649	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	658m	East
664357	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	663m	South West
667551	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	665m	North West
664573	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	681m	South West
666608	Not classified	(Not classified) Not classified	Not classified	681m	South East
668977	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	683m	East
666523	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	685m	South East
668604	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	685m	West
664904	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	687m	South West
665762	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	689m	East
667577	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	689m	East
668914	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	689m	East
665738	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	691m	South East
667028	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	691m	North West
667195	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	695m	North
668130	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	700m	North West
664198	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	702m	South West
665729	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	704m	South East
666239	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	715m	South East
668623	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	719m	West
664079	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	722m	South West
667434	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	723m	North West
667326	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	730m	North West
664087	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	731m	South West

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
668615	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	731m	North West
667441	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	734m	North West
667200	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	742m	North West
664478	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	743m	South East
666466	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	744m	South East
666267	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	745m	South East
665969	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	750m	South East
668742	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	750m	East
668895	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	755m	East
668665	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	764m	West
663979	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	770m	South East
664552	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	774m	South West
665717	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	778m	South East
668677	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	780m	West
666641	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	782m	South East
666617	Not classified	(Not classified) Not classified	Not classified	784m	South East
666428	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	785m	East
667034	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	790m	North West
668884	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	795m	East
666725	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	796m	South East
667505	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	796m	North West
668590	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	799m	North West
664046	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	802m	South East
666474	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	802m	East
668760	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	805m	West
668878	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	806m	North West

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
667877	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	807m	North West
668690	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	810m	West
663971	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	815m	South East
668720	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	817m	North West
666716	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	819m	South East
666670	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	823m	South East
668829	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	830m	East
668850	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	840m	East
664449	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	846m	South West
668020	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	846m	North West
666469	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	848m	South East
666413	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	856m	East
668851	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	863m	North West
664279	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	864m	South East
668858	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	866m	North West
667154	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	868m	North West
668699	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	869m	North West
666189	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	872m	South East
664685	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	874m	South West
665769	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	880m	South East
664748	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	882m	South West
663964	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	885m	South East
667338	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	891m	North West
667049	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	894m	North West

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
667351	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	896m	North West
666581	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	909m	South East
666996	Forested Wetlands	(Forested Wetlands) River Red Gum - wallaby grass tall woodland wetland on the outer River Red Gum zone mainly in the Riverina Bioregion	Inland Riverine Forests	912m	North West
668460	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	929m	North West
668174	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	934m	North West
666507	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	947m	South East
667202	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	953m	North
668707	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	961m	East
666302	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	966m	East
668786	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	966m	East
666350	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	967m	South East
664134	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	968m	South West
666648	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	968m	East
666378	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	977m	East
666642	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	979m	South East
664465	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	983m	South West
668836	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	984m	North West
666309	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	988m	South East
668711	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	990m	North West
667399	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	996m	North West

Native Vegetation Type Map : NSW Department of Planning and Environment 2022
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Ramsar Wetlands

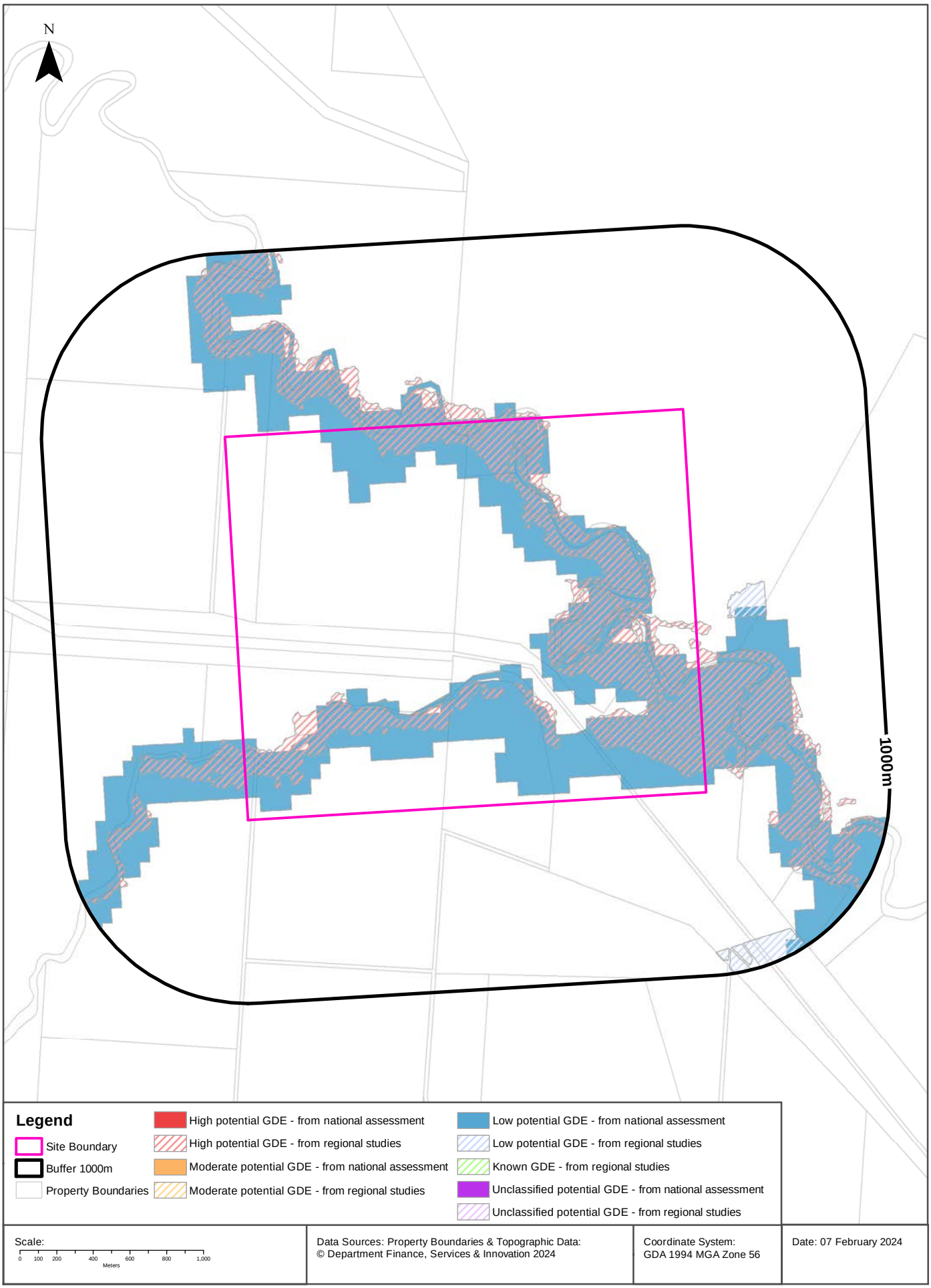
What Ramsar Wetland areas exist within the dataset buffer?

Map Id	Ramsar Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Agriculture, Water and the Environment

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

Hartwood Regulator, Hartwood, NSW 2710



Ecological Constraints

Hartwood Regulator, Hartwood, NSW 2710

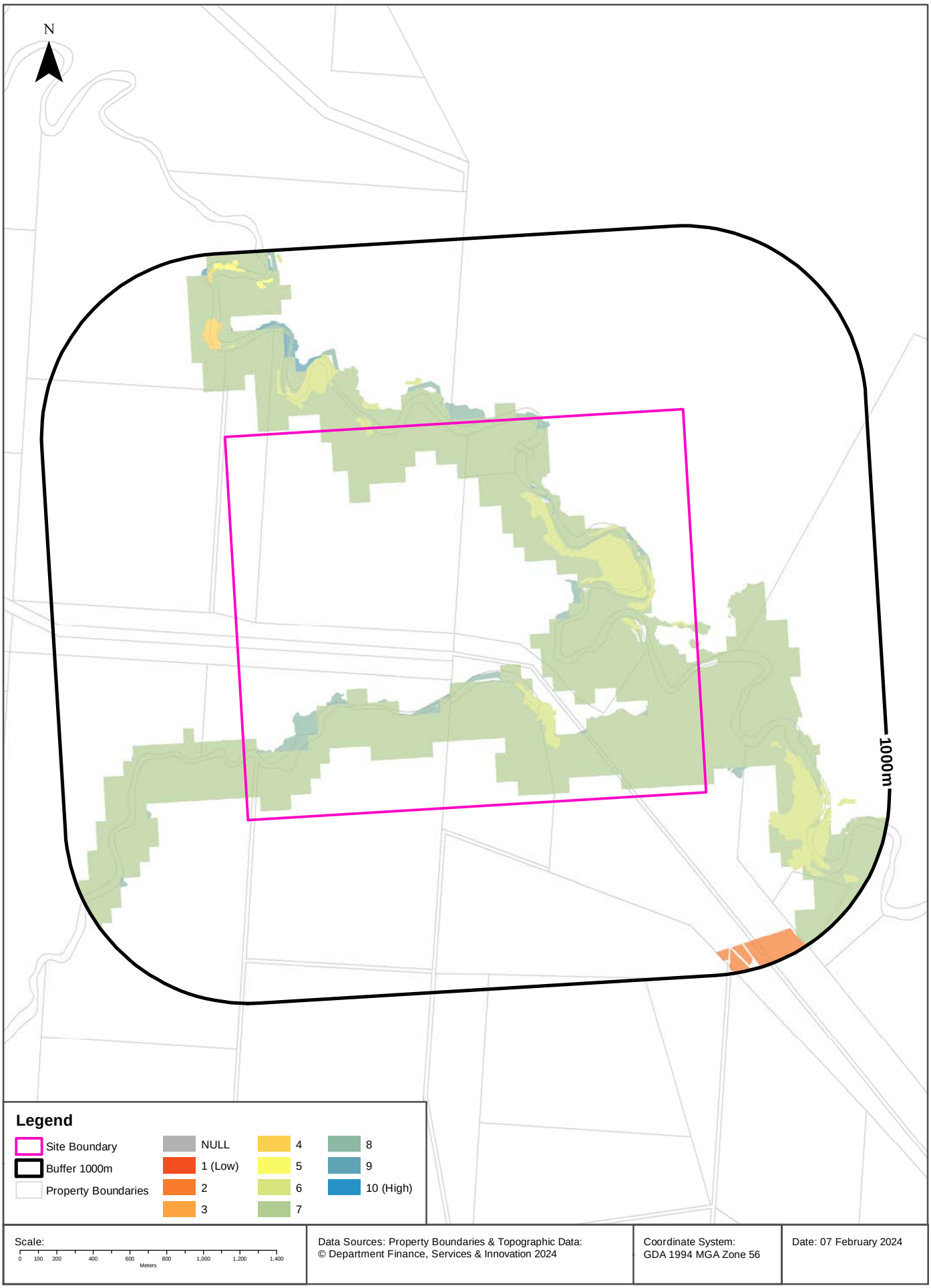
Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Aquatic	Low potential GDE - from national assessment	Alluvial plain.	Wetland		0m	On-site
Aquatic	Low potential GDE - from national assessment	Alluvial plain.	River		0m	On-site
Terrestrial	High potential GDE - from regional studies	Alluvial plain.	Vegetation		0m	On-site
Terrestrial	Low potential GDE - from regional studies	Alluvial plain.	Vegetation		173m	East

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology
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Ecological Constraints - Inflow Dependent Ecosystems Likelihood

Hartwood Regulator, Hartwood, NSW 2710



Ecological Constraints

Hartwood Regulator, Hartwood, NSW 2710

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Aquatic	7	Alluvial plain.	Wetland		0m	On-site
Terrestrial	8	Alluvial plain.	Vegetation		0m	On-site
Aquatic	8	Alluvial plain.	River		0m	On-site
Terrestrial	6	Alluvial plain.	Vegetation		0m	On-site
Terrestrial	7	Alluvial plain.	Vegetation		0m	On-site
Terrestrial	10	Alluvial plain.	Vegetation		0m	On-site
Aquatic	7	Alluvial plain.	River		181m	South East
Terrestrial	9	Alluvial plain.	Vegetation		215m	North West
Terrestrial	4	Alluvial plain.	Vegetation		474m	North West
Terrestrial	5	Alluvial plain.	Vegetation		796m	North West
Terrestrial	2	Alluvial plain.	Vegetation		846m	South East

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology

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Ecological Constraints

Hartwood Regulator, Hartwood, NSW 2710

NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Aphelocephala leucopsis	Southern Whiteface	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Burhinus grallarius	Bush Stone-curlew	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Circus assimilis	Spotted Harrier	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Grantiella picta	Painted Honeyeater	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Neophema chrysostoma	Blue-winged Parrot	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Pedionomus torquatus	Plains-wanderer	Endangered	Category 3	Critically Endangered	
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Vulnerable	Category 3	Vulnerable	
Animalia	Aves	Pomatostomus temporalis temporalis	Grey-crowned Babbler (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Vulnerable	Category 3	Not Listed	
Plantae	Flora	Swainsona murrayana	Slender Darling Pea	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Swainsona sericea	Silky Swainson-pea	Vulnerable	Not Sensitive	Not Listed	

Data does not include NSW category 1 sensitive species.
NSW BioNet: © State of NSW and Office of Environment and Heritage

Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading “LC” or “LocConf”. These codes lookup to the following location confidences:

LC Code	Location Confidence
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 07 Feb 2024 14:54:21

Reference: LS052512 EP

Address: Wanganella Regulator, Wanganella, NSW 2710

Disclaimer:
The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features.
You should obtain independent advice before you make any decision based on the information within the report.
The detailed terms applicable to use of this report are set out at the end of this report.

Dataset Listing

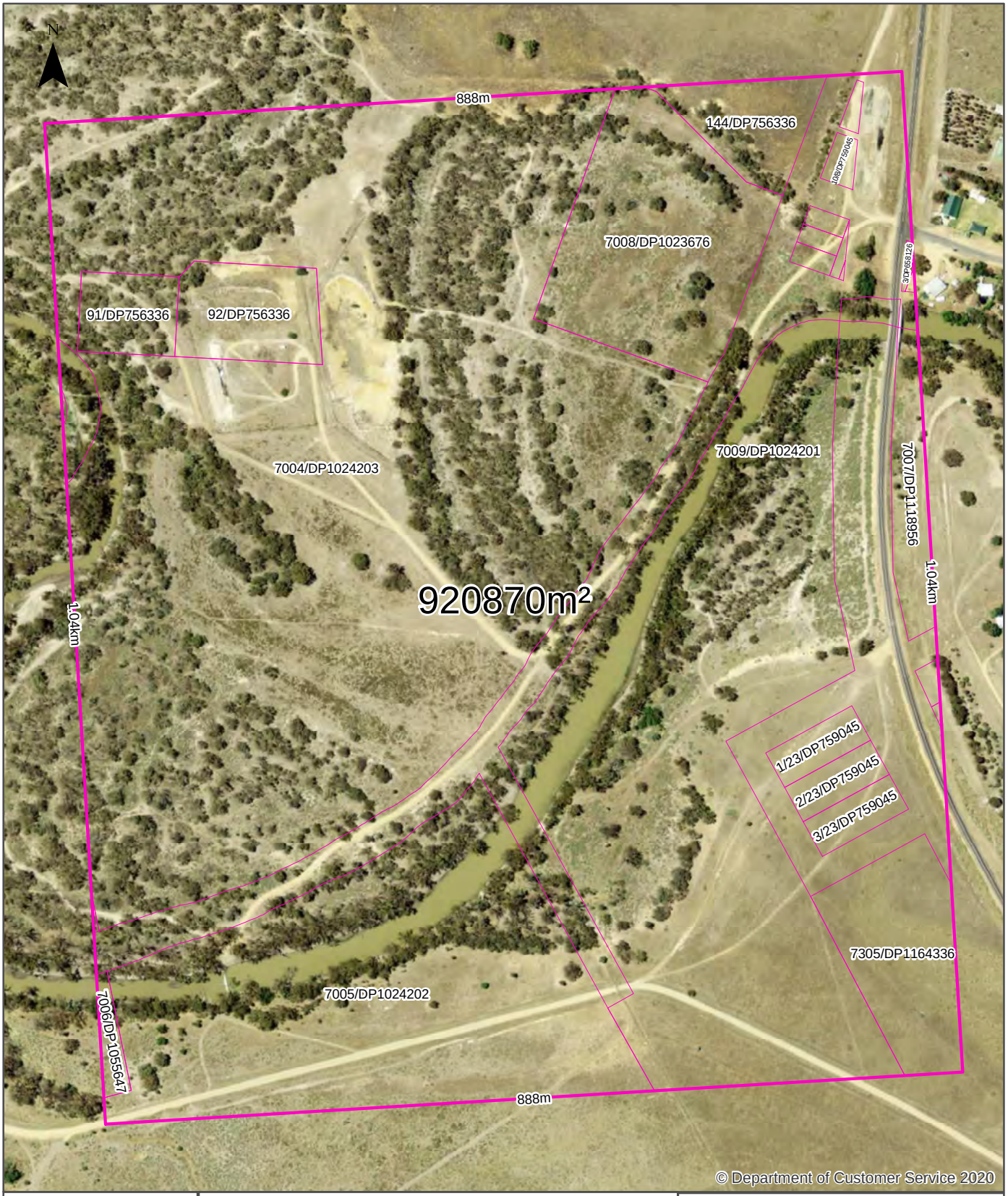
Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	04/01/2024	04/01/2024	Quarterly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	22/08/2022	22/08/2022	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	12/01/2024	14/12/2023	Monthly	1000m	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority	12/01/2024	12/01/2024	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	24/01/2024	14/07/2021	Quarterly	1000m	0	0	0
Notices under the POEO Act 1997	Environment Protection Authority	17/01/2024	17/01/2024	Monthly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	1	1	1
National Liquid Fuel Facilities	Geoscience Australia	20/09/2023	07/09/2020	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	15/01/2024	21/11/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	05/02/2024	05/02/2024	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	05/02/2024	05/02/2024	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	05/02/2024	05/02/2024	Monthly	2000m	0	0	0
Defence Controlled Areas	Department of Defence	12/01/2024	12/01/2024	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	24/01/2024	02/09/2022	Quarterly	2000m	0	0	0
National Unexploded Ordnance (UXO)	Department of Defence	12/01/2024	12/01/2024	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	13/11/2023	15/12/2022	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	15/01/2024	15/01/2024	Monthly	1000m	0	0	0
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	15/01/2024	15/01/2024	Monthly	1000m	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	15/01/2024	15/01/2024	Monthly	1000m	3	3	3
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	0	0	0
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	0	0
Points of Interest	NSW Department of Customer Service - Spatial Services	13/11/2023	13/11/2023	Quarterly	1000m	2	5	14
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	13/11/2023	13/11/2023	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	13/11/2023	13/11/2023	Quarterly	1000m	0	1	1
Major Easements	NSW Department of Customer Service - Spatial Services	31/01/2024	31/01/2024	Quarterly	1000m	0	0	0
State Forest	Forestry Corporation of NSW	12/12/2023	11/12/2023	Annually	1000m	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	16/02/2023	31/12/2022	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	06/02/2024	19/08/2019	Annually	1000m	1	1	1

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	09/05/2023	23/02/2018	Annually	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	18/04/2023	13/07/2022	Annually	2000m	0	0	0
NSW Seamless Geology Single Layer: Rock Units	Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	2	2	2
NSW Seamless Geology – Single Layer: Trendlines	Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	0	0	0
NSW Seamless Geology – Single Layer: Geological Boundaries and Faults	Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Annually	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	12/01/2024	17/02/2011	Annually	1000m	1	1	1
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	02/02/2024	01/09/2023	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	12/01/2024	21/02/2013	Annually	1000m	1	1	2
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	Annually	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	24/01/2024	24/01/2024	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	24/01/2024	24/01/2024	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Industry	24/01/2024	24/01/2024	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	24/01/2024	24/01/2024	Monthly	1000m	6	6	6
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	02/02/2024	08/09/2023	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	02/02/2024	19/01/2024	Monthly	1000m	2	2	2
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	20/10/2023	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	20/10/2023	13/04/2022	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	24/01/2024	24/11/2023	Quarterly	1000m	0	0	0
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	02/02/2024	19/01/2024	Monthly	1000m	0	1	3
Bush Fire Prone Land	NSW Rural Fire Service	12/01/2024	20/11/2023	Monthly	1000m	2	2	2
NSW Native Vegetation Type Map	NSW Department of Planning and Environment	26/05/2023	12/12/2022	Quarterly	1000m	100	135	523
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	09/05/2023	01/11/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	4	4	5
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	8	8	11
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	29/11/2023	29/11/2023	Weekly	10000m	-	-	-

Site Diagram

Wanganella Regulator, Wanganella, NSW 2710



Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 920870m²

Total Perimeter: 3.85km

Disclaimers:

Measurements are approximate only and may have been simplified or smaller lengths removed for readability.

Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.

Scale: 0 25 50 100 150 200 250 Meters

Data Sources: Aerial Imagery:
© NSW Department of Finance, Services & Innovation

Coordinate System:
GDA 1994 MGA Zone 56

Date: 07 February 2024

Contaminated Land

Wanganella Regulator, Wanganella, NSW 2710

List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist	Direction
N/A	No records in buffer								

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Contaminated Land

Wanganella Regulator, Wanganella, NSW 2710

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
N/A	No records in buffer							

Contaminated Land Records of Notice Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority
Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm

Former Gasworks

Former Gasworks within the dataset buffer:

Map Id	Location	Council	Further Info	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Contaminated Land

Wanganella Regulator, Wanganella, NSW 2710

EPA Notices

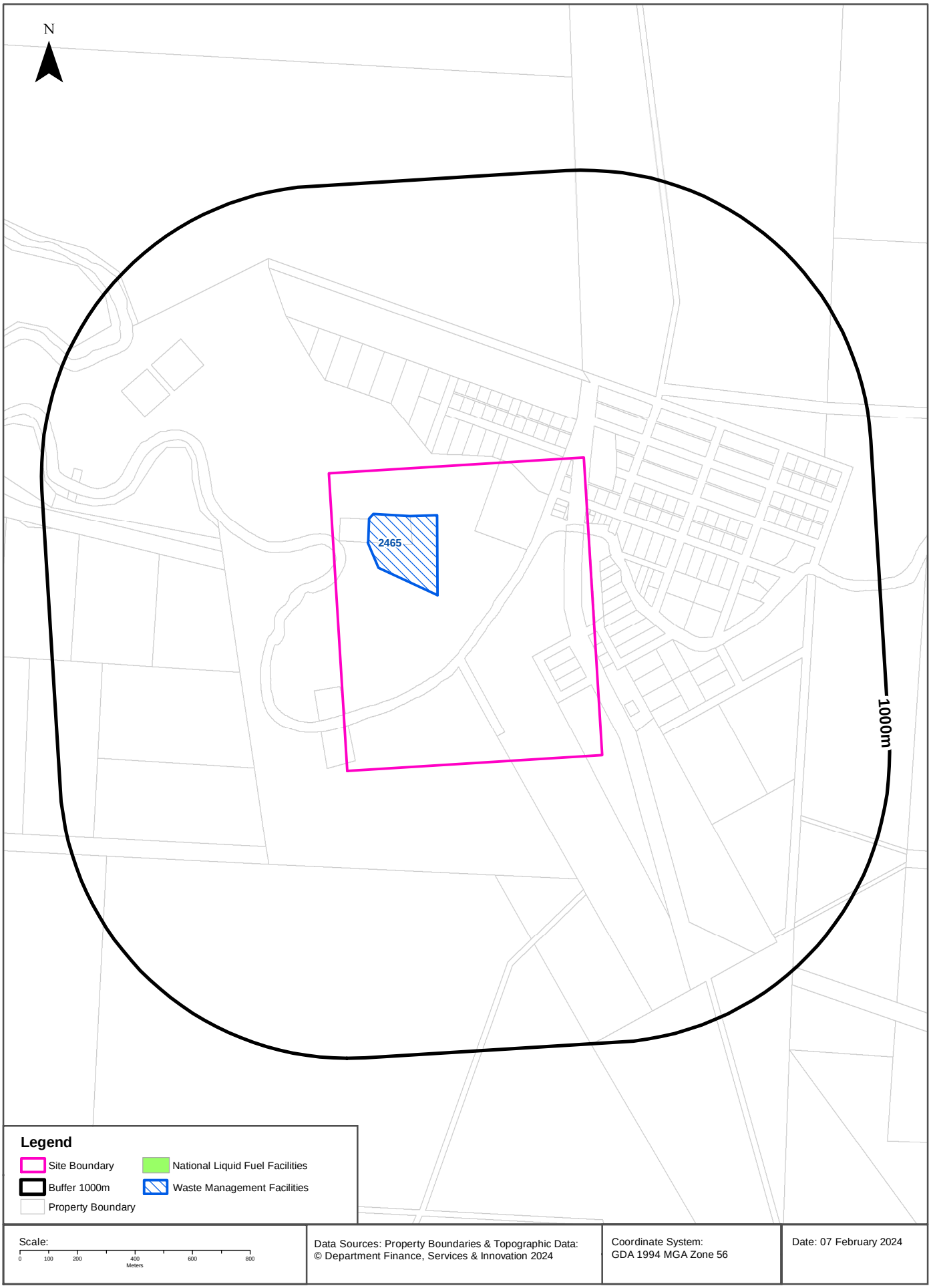
Penalty Notices, s.91 & s.92 Clean up Notices and s.96 Prevention Notices within the dataset buffer:

Number	Type	Name	Address	Status	Issued Date	Act	Offence	Offence Date	Loc Conf	Dist	Dir
N/A	No records in buffer										

NSW EPA Notice Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Waste Management & Liquid Fuel Facilities

Wanganella Regulator, Wanganella, NSW 2710



Waste Management & Liquid Fuel Facilities

Wanganella Regulator, Wanganella, NSW 2710

National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

Site Id	Owner	Name	Address	Suburb	Class	Landfill	Reprocess	Transfer	Comments	Loc Conf	Dist	Direction
2465	Conargo Shire Council	Wanganella Landfill	Cobb Highway	Wanganella	Landfill	Operational				Premise Match	0m	On-site

Waste Management Facilities Data Source: Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
N/A	No records in buffer										

National Liquid Fuel Facilities Data Source: Geoscience Australia
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PFAS Investigation & Management Programs

Wanganella Regulator, Wanganella, NSW 2710

EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

Map ID	Site	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

EPA PFAS Investigation Program: Environment Protection Authority
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Defence PFAS Investigation Program

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation Program Data Custodian: Department of Defence, Australian Government

Defence PFAS Management Program

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Management Program Data Custodian: Department of Defence, Australian Government

Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Loc Conf	Dist	Dir
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites and Unexploded Ordnance

Wanganella Regulator, Wanganella, NSW 2710

Defence Controlled Areas (DCA)

Defence Controlled Areas provided by the Department of Defence within the dataset buffer:

Site ID	Location Name	Loc Conf	Dist	Dir
N/A	No records in buffer			

Defence Controlled Areas, Data Custodian: Department of Defence, Australian Government

Defence 3 Year Regional Contamination Investigation Program (RCIP)

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

National Unexploded Ordnance (UXO)

Sites which have been assessed by the Department of Defence for the potential presence of unexploded ordnance within the dataset buffer:

Site ID	Location Name	Category	Area Description	Additional Information	Commonwealth	Loc Conf	Dist	Dir
N/A	No records in buffer							

National Unexploded Ordnance (UXO), Data Custodian: Department of Defence, Australian Government

EPA Other Sites with Contamination Issues

Wanganella Regulator, Wanganella, NSW 2710

EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- Pasminco Lead Abatement Strategy Area

Sites within the dataset buffer:

Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

EPA Other Sites with Contamination Issues: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

EPA Activities

Wanganella Regulator, Wanganella, NSW 2710

Licensed Activities under the POEO Act 1997

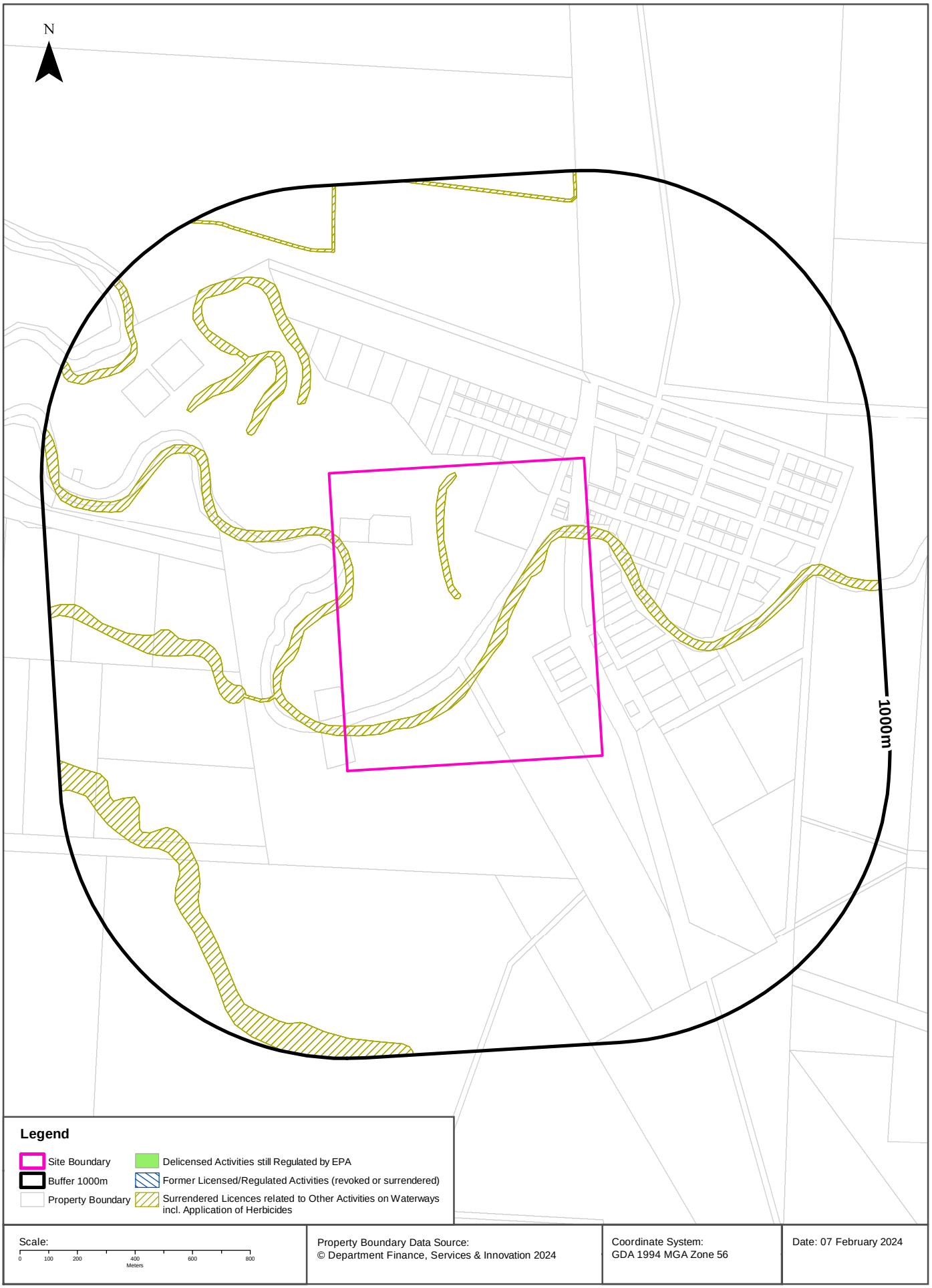
Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
N/A	No records in buffer							

POEO Licence Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

Wanganella Regulator, Wanganella, NSW 2710



EPA Activities

Wanganella Regulator, Wanganella, NSW 2710

Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
N/A	No records in buffer							

Delicensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site

Former Licensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Historical Business Directories

Wanganella Regulator, Wanganella, NSW 2710

Business Directory Records 1950-1991
Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1970, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

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Business Directory Records 1950-1991
Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1970, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
N/A	No records in buffer					

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Historical Business Directories

Wanganella Regulator, Wanganella, NSW 2710

Dry Cleaners, Motor Garages & Service Stations Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

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Dry Cleaners, Motor Garages & Service Stations Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
N/A	No records in buffer					

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Aerial Imagery 2023

Wanganella Regulator, Wanganella, NSW 2710



Scale:
0 80 160 240 320
Meters

Data Source Aerial Imagery: © 2024 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 56

Date: 07 February 2024

Aerial Imagery 2022

Wanganella Regulator, Wanganella, NSW 2710



Scale: 0 80 160 240 320 Meters	Data Source Aerial Imagery: © 2024 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.	Coordinate System: GDA 1994 MGA Zone 56	Date: 07 February 2024

Aerial Imagery 2020

Wanganella Regulator, Wanganella, NSW 2710



Aerial Imagery 2012

Wanganella Regulator, Wanganella, NSW 2710



Scale:
0 80 160 240 320
Meters

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Coordinate System:
GDA 1994 MGA Zone 56

Date: 07 February 2024

Aerial Imagery 1996

Wanganella Regulator, Wanganella, NSW 2710



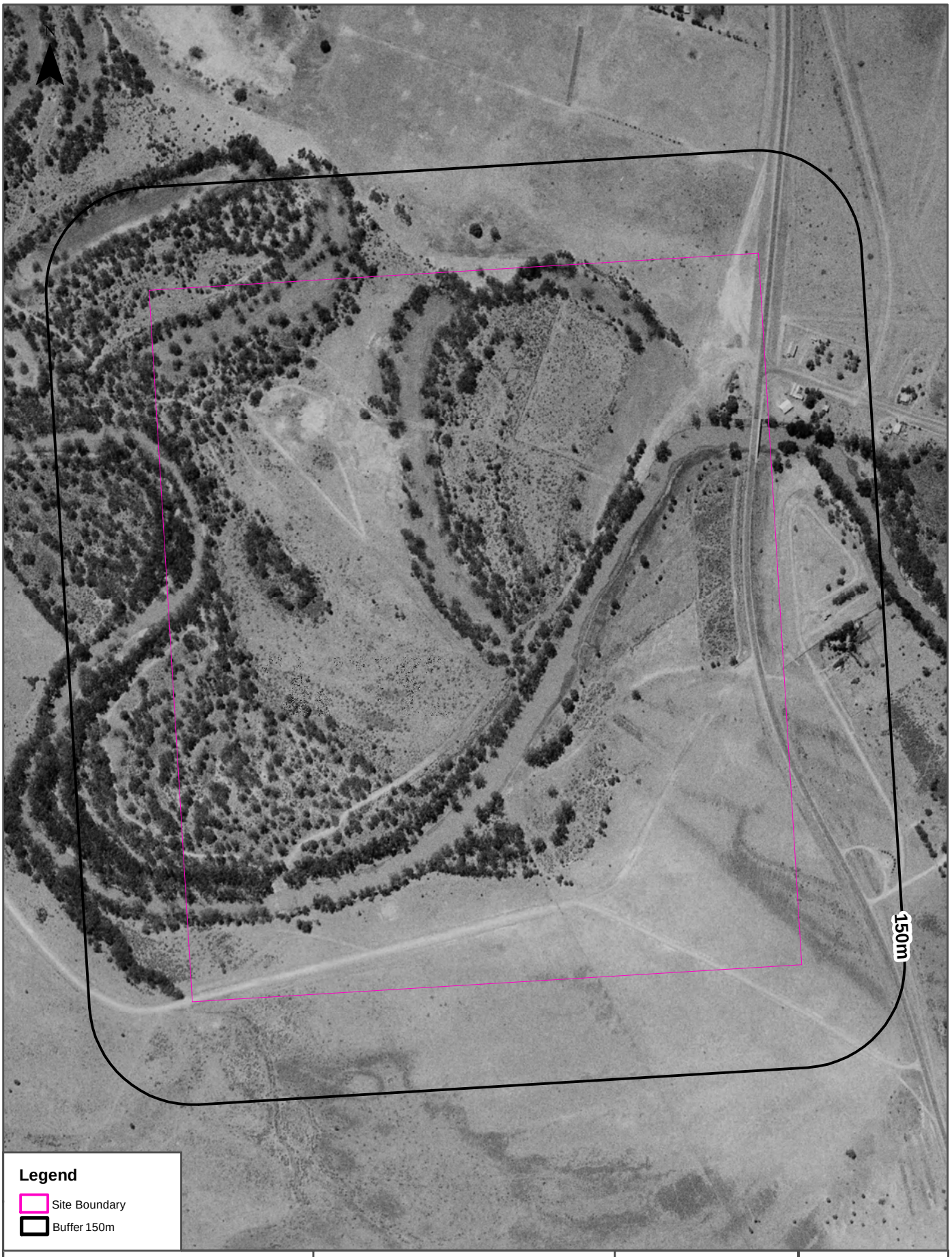
Aerial Imagery 1985

Wanganella Regulator, Wanganella, NSW 2710



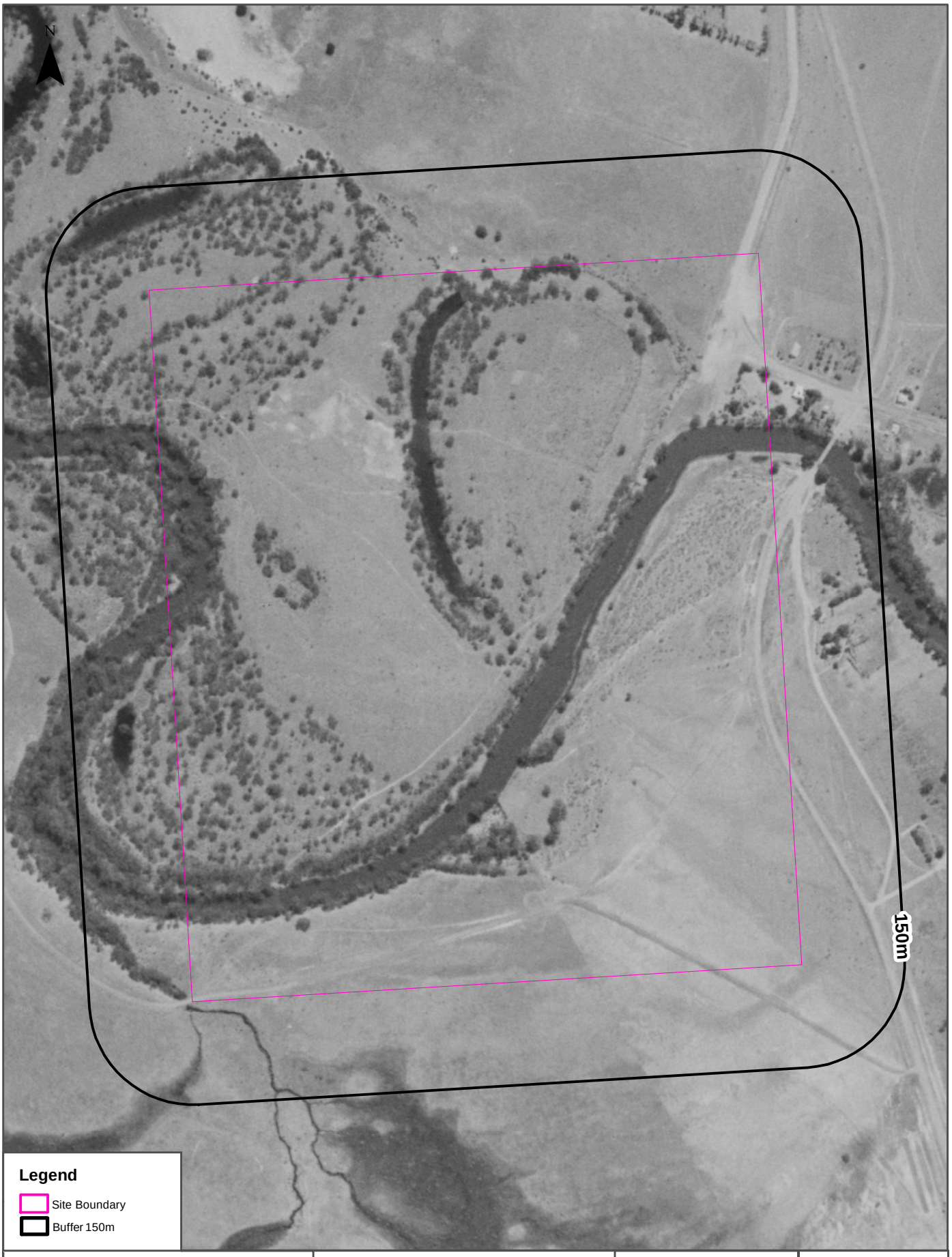
Aerial Imagery 1976

Wanganella Regulator, Wanganella, NSW 2710



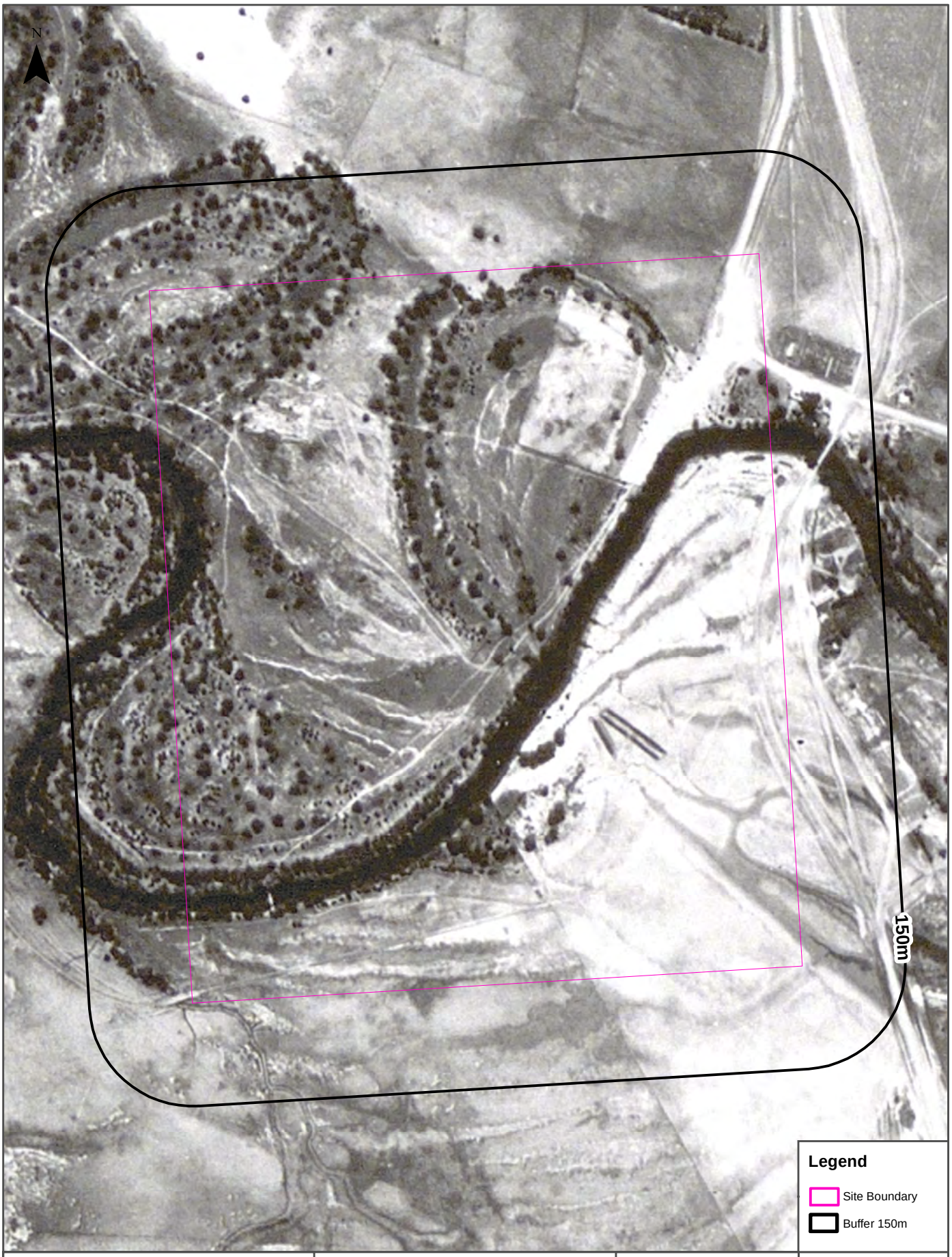
Aerial Imagery 1964

Wanganella Regulator, Wanganella, NSW 2710



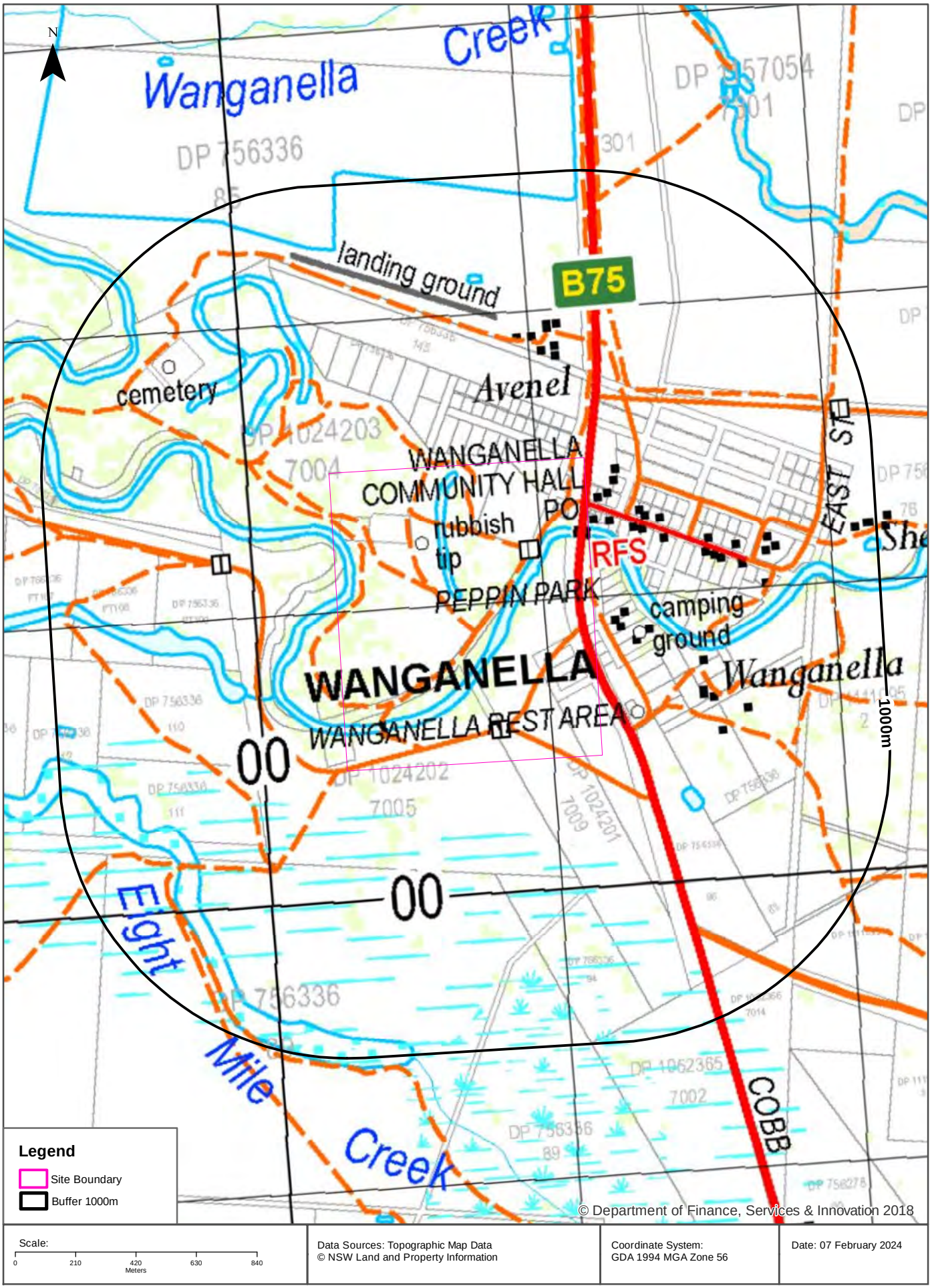
Aerial Imagery 1950

Wanganella Regulator, Wanganella, NSW 2710



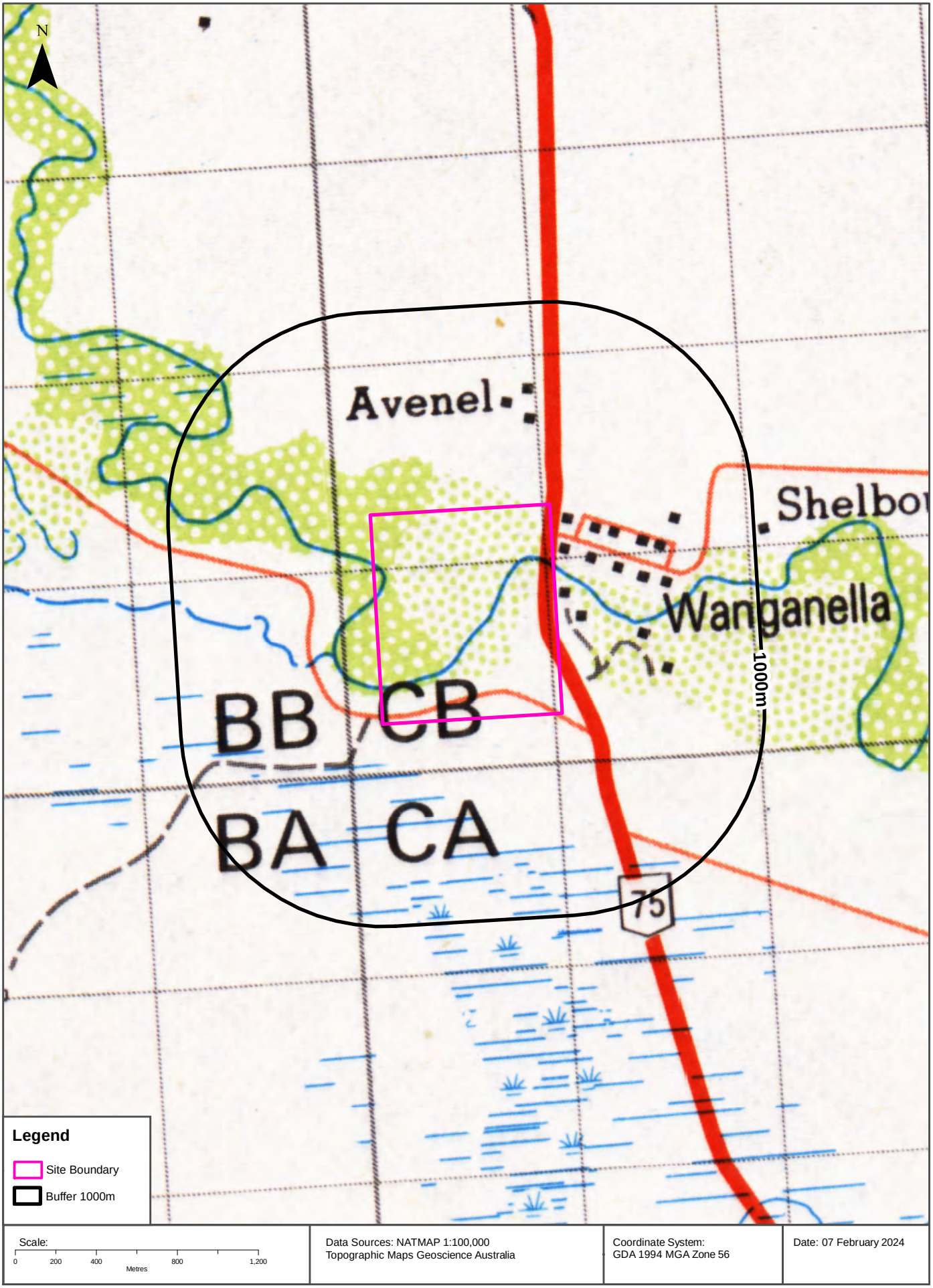
Topographic Map 2015

Wanganella Regulator, Wanganella, NSW 2710



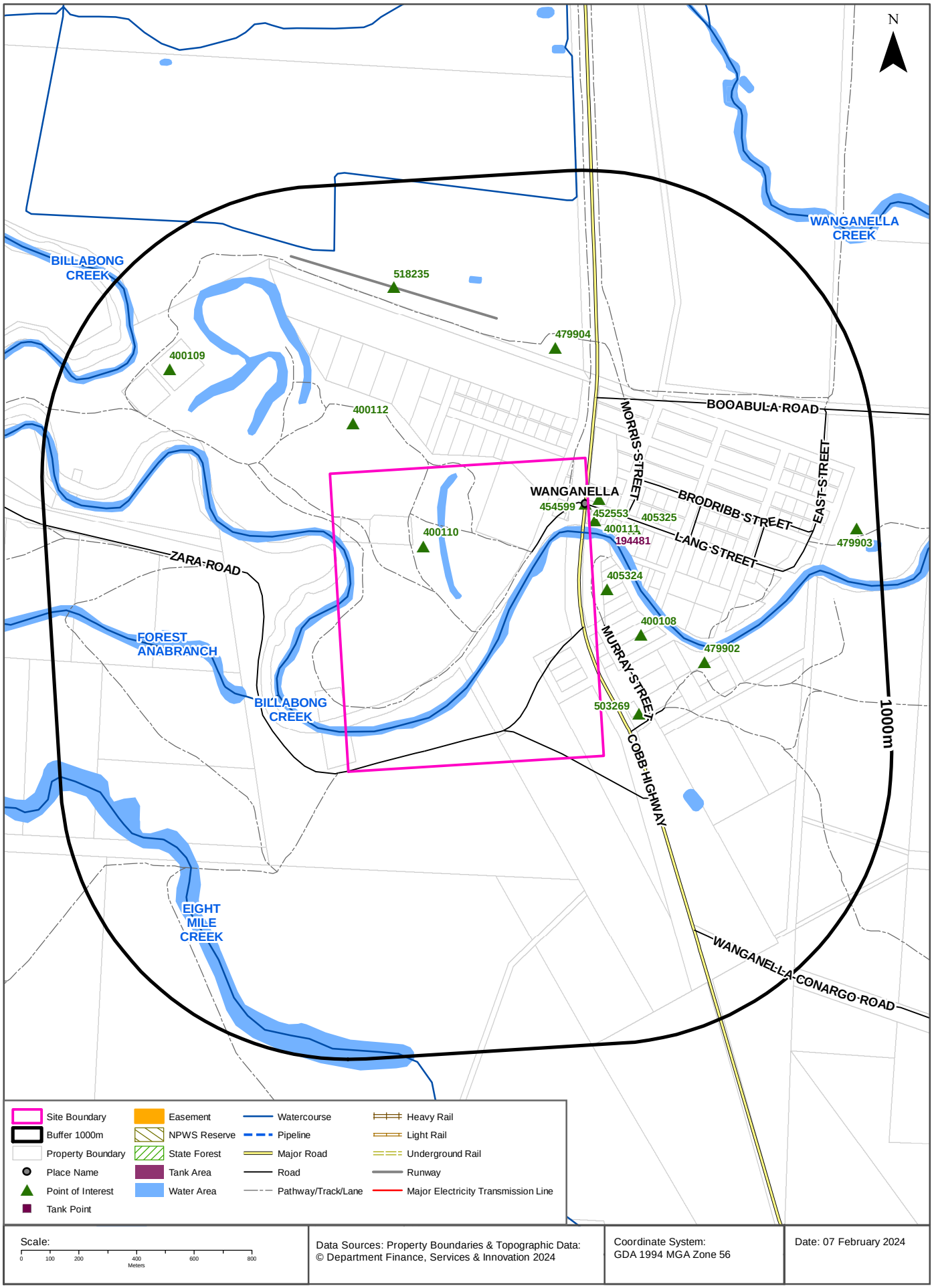
Historical Map 1980

Wanganella Regulator, Wanganella, NSW 2710



Topographic Features

Wanganella Regulator, Wanganella, NSW 2710



Topographic Features

Wanganella Regulator, Wanganella, NSW 2710

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
400110	Rubbish Depot	Rubbish Depot	0m	On-site
454599	Village	WANGANELLA	0m	On-site
400111	Post Office	WANGANELLA POST OFFICE	19m	North East
452553	Community Facility	WANGANELLA COMMUNITY HALL	38m	North East
405324	Park	PEPPIN PARK	47m	East
503269	Roadside Rest Area	WANGANELLA REST AREA	132m	South East
400108	Camping Ground	WANGANELLA CREEK CAMP PARK	155m	East
405325	Firestation - Bush	WANGANELLA RFB	155m	North East
400112	Park	WANGANELLA WEIR RESERVE	170m	North West
479902	Homestead	WANGANELLA	370m	East
479904	Homestead	AVENEL	390m	North
518235	Landing Ground	Landing Ground	633m	North
400109	Cemetery	WANGANELLA CEMETERY	665m	North West
479903	Homestead	SHELBOURNE	925m	East

Topographic Data Source: © Land and Property Information (2015)
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Topographic Features

Wanganella Regulator, Wanganella, NSW 2710

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks (Points)

What are the Tank Points located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
194481	Water	Operational		01/05/2020	88m	North East

Tanks Data Source: © Land and Property Information (2015)
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Major Easements

What Major Easements exist within the dataset buffer?
Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
N/A	No records in buffer				

Easements Data Source: © Land and Property Information (2015)
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Topographic Features

Wanganella Regulator, Wanganella, NSW 2710

State Forest

What State Forest exist within the dataset buffer?

State Forest Number	State Forest Name	Distance	Direction
N/A	No records in buffer		

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018)
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National Parks and Wildlife Service Reserves

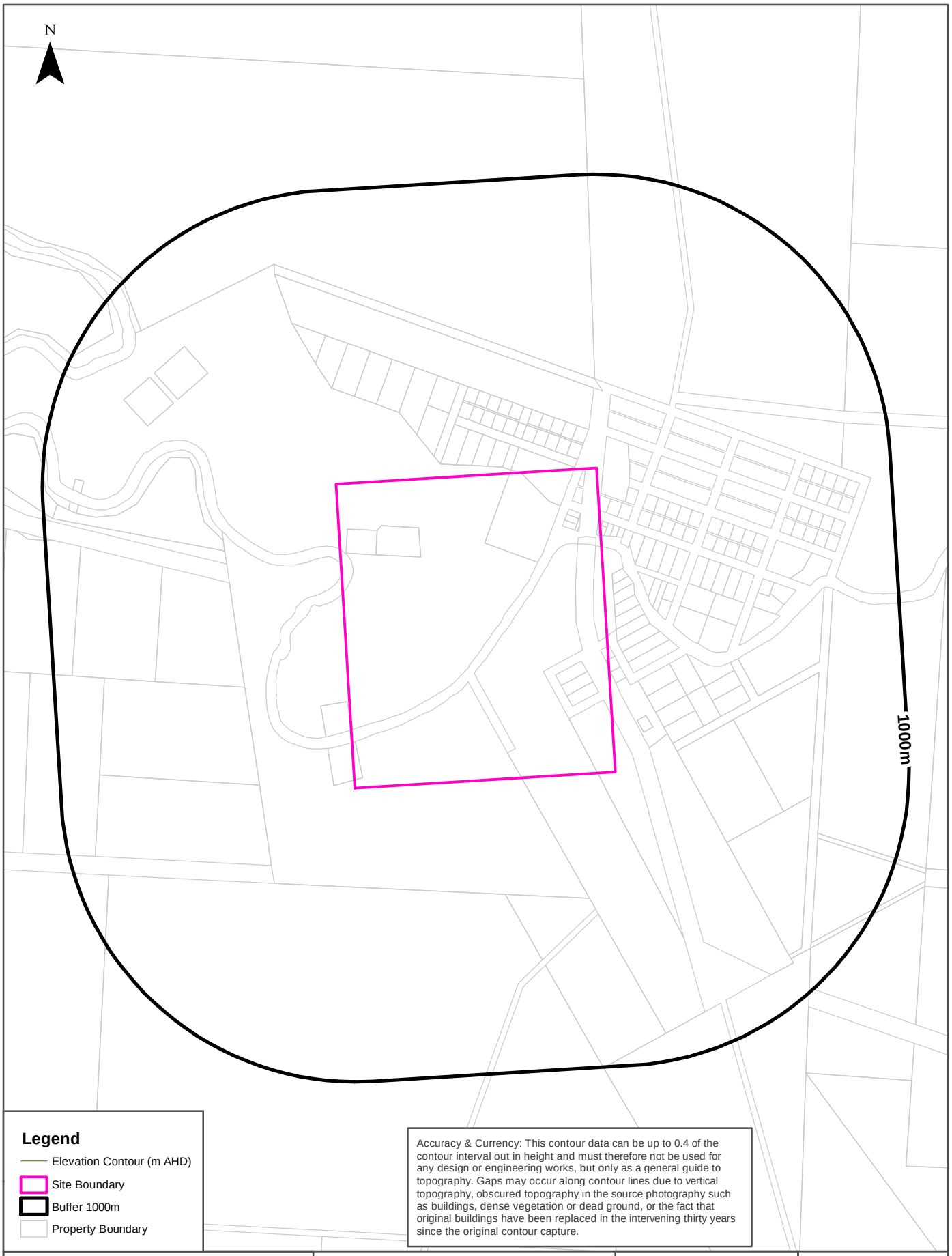
What NPWS Reserves exist within the dataset buffer?

Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N/A	No records in buffer				

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018)
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Elevation Contours (m AHD)

Wanganella Regulator, Wanganella, NSW 2710



Hydrogeology & Groundwater

Wanganella Regulator, Wanganella, NSW 2710

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Porous, extensive aquifers of low to moderate productivity	0m	On-site

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibition Area No.	Prohibition	Distance	Direction
N/A	No records in buffer		

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source : NSW Department of Primary Industries

Hydrogeology & Groundwater

Wanganella Regulator, Wanganella, NSW 2710

Groundwater Boreholes

Boreholes within the dataset buffer:

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
N/A												

Borehole Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Hydrogeology & Groundwater

Wanganella Regulator, Wanganella, NSW 2710

Driller's Logs

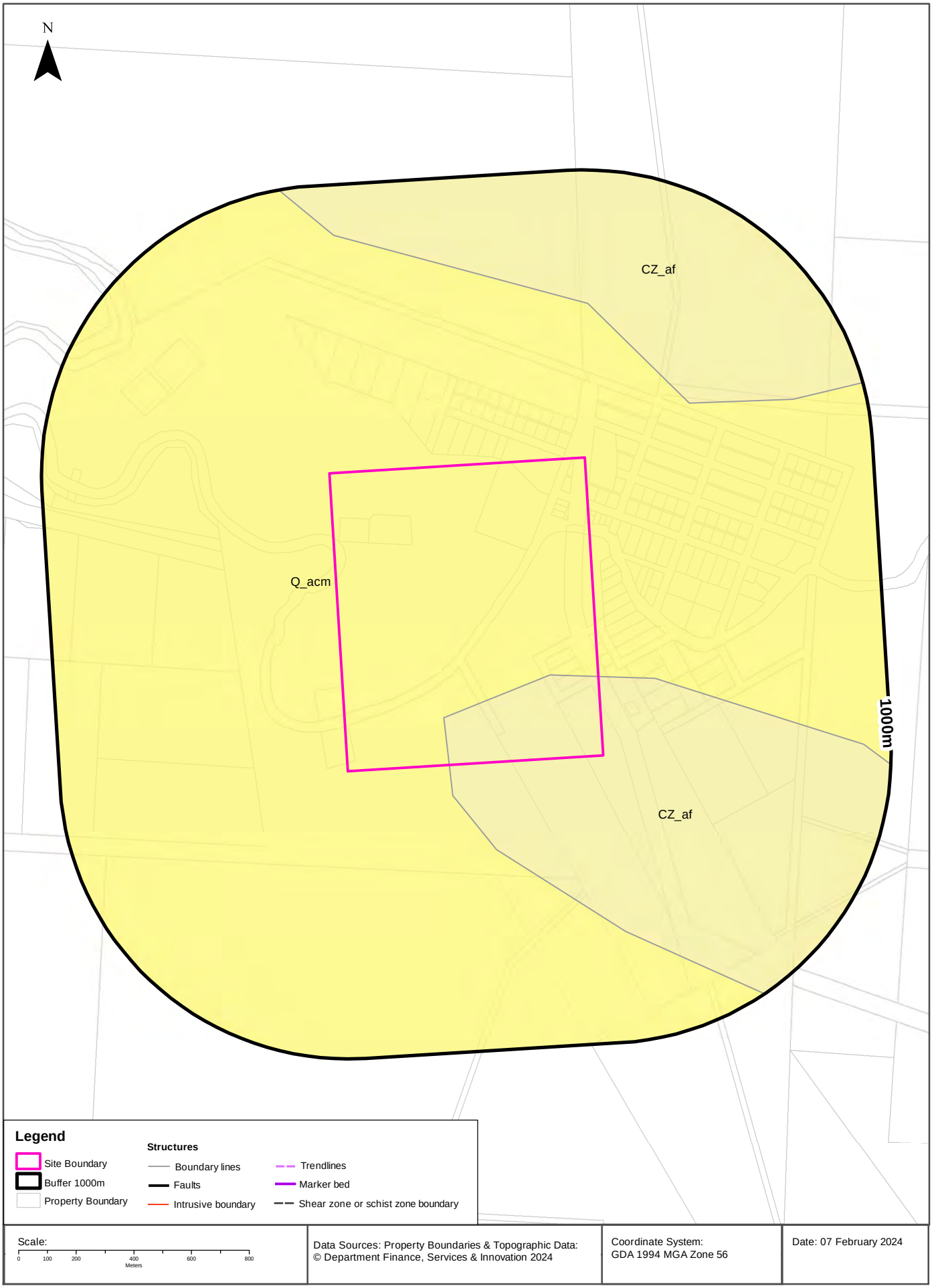
Drill log data relevant to the boreholes within the dataset buffer:

NGIS Bore ID	Drillers Log	Distance	Direction
No related drill log data			

Drill Log Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Geology

Wanganella Regulator, Wanganella, NSW 2710



Geology

Wanganella Regulator, Wanganella, NSW 2710

Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Q_acm	Alluvial channel deposits - meander-plain facies	Unconsolidated grey humic, clayey very fine-grained sand, typically overlying light brown clayey silt.	\Alluvium\\Alluvial channel deposits\Alluvial channel deposits - meander-plain facies\	Quaternary (base) to Now (top)	Clastic sediment	0m
CZ_af	Alluvial floodplain deposits	Silt, very fine- to medium-grained lithic to quartz-rich sand, clay.	\Alluvium\\Alluvial floodplain deposits\\	Cenozoic (base) to Now (top)	Silt	0m

Linear Geological Structures

What are the Dyke, Sill, Fracture, Lineament and Vein trendlines within the dataset buffer?

Map ID	Feature Description	Map Sheet Name	Distance
No Features			

What are the Faults, Shear zones or Schist zones, Intrusive boundaries & Marker beds within the dataset buffer?

Map ID	Boundary Type	Description	Map Sheet Name	Distance
No Features				

Geological Data Source: Statewide Seamless Geology v2.1, Department of Regional NSW
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Naturally Occurring Asbestos Potential

Wanganella Regulator, Wanganella, NSW 2710

Naturally Occurring Asbestos Potential

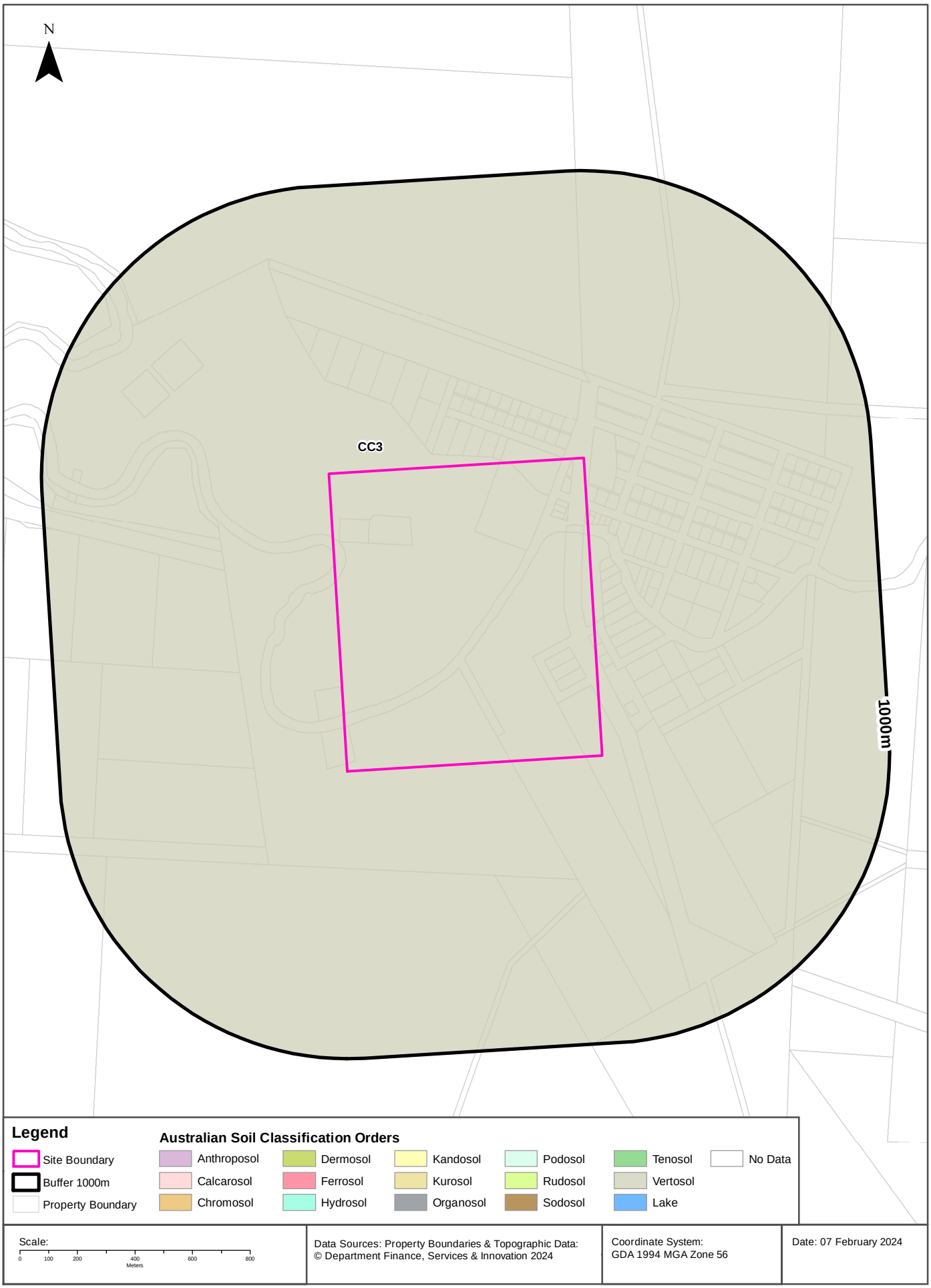
Naturally Occurring Asbestos Potential within the dataset buffer:

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Naturally Occurring Asbestos Potential Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

Atlas of Australian Soils

Wanganella Regulator, Wanganella, NSW 2710



Soils

Wanganella Regulator, Wanganella, NSW 2710

Atlas of Australian Soils

Soil mapping units and Australian Soil Classification orders within the dataset buffer:

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
CC3	Vertosol	Plains: gilgai plains of cracking grey clays (Ug5.2) with small areas of cracking brown clays (Ug5.3); and very small areas of hard alkaline red soils (Dr2.33) and hard alkaline brown soils (Db1.33) on low rises.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO
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Acid Sulfate Soils

Wanganella Regulator, Wanganella, NSW 2710

Environmental Planning Instrument - Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

Soil Class	Description	EPI Name
N/A		

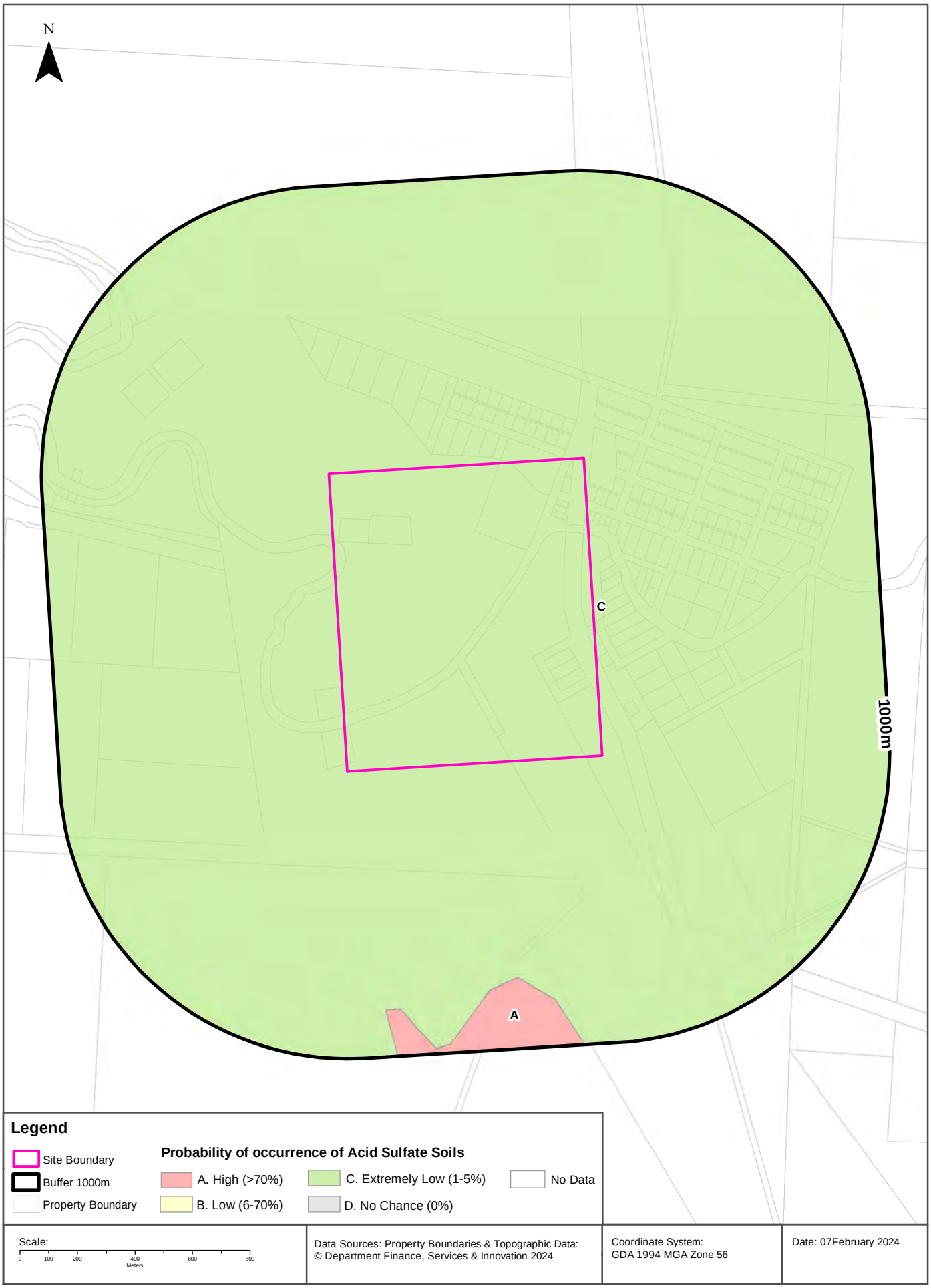
If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
N/A				

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Atlas of Australian Acid Sulfate Soils

Wanganella Regulator, Wanganella, NSW 2710



Acid Sulfate Soils

Wanganella Regulator, Wanganella, NSW 2710

Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site
A	High Probability of occurrence. >70% chance of occurrence.	752m	South

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO
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Dryland Salinity

Wanganella Regulator, Wanganella, NSW 2710

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A		

Dryland Salinity Data Source : National Land and Water Resources Audit
The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.
In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Mining

Wanganella Regulator, Wanganella, NSW 2710

Mining Subsidence Districts

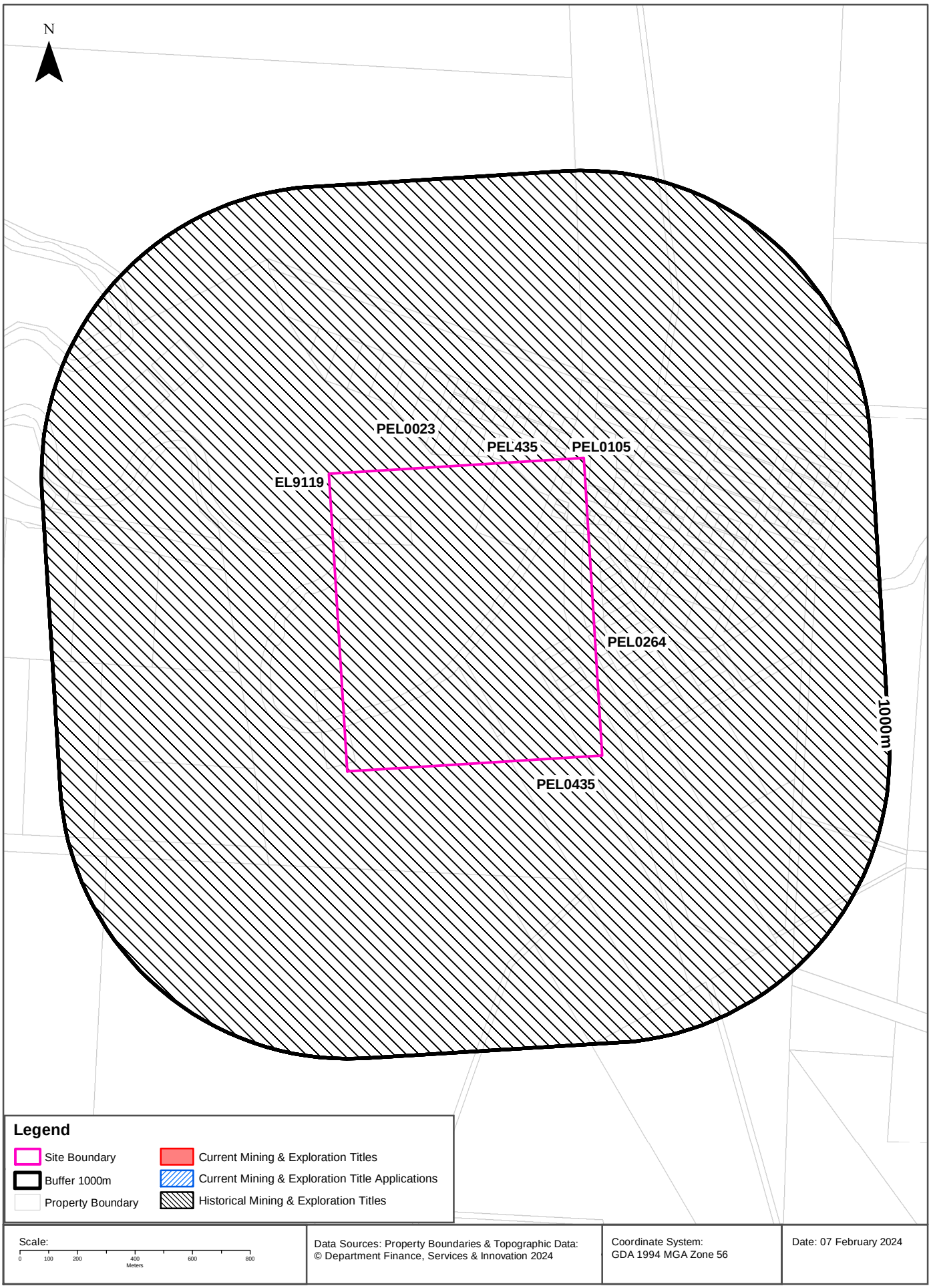
Mining Subsidence Districts within the dataset buffer:

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)
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Mining & Exploration Titles

Wanganella Regulator, Wanganella, NSW 2710



Mining

Wanganella Regulator, Wanganella, NSW 2710

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Grant Date	Expiry Date	Last Renewed	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer								

Current Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

Application Ref	Applicant	Application Date	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer						

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

Mining

Wanganella Regulator, Wanganella, NSW 2710

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
PEL435	AUSTRALIAN COALBED METHANE PTY LIMITED	20010319	20040912	MINERALS		0m	On-site
PEL0023	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL0264	BALHOIL NOMINEES PTY LTD		19831010	PETROLEUM	Petroleum	0m	On-site
PEL0435	AUSTRALIAN COALBED METHANE PTY LTD	20020703	20061010	PETROLEUM	Petroleum	0m	On-site
PEL0105	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
EL9119	VIEWMONT GOLD PTY LTD	20210330	30000101	MINERALS		0m	On-site

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

State Environmental Planning Policy

Wanganella Regulator, Wanganella, NSW 2710

State Significant Precincts

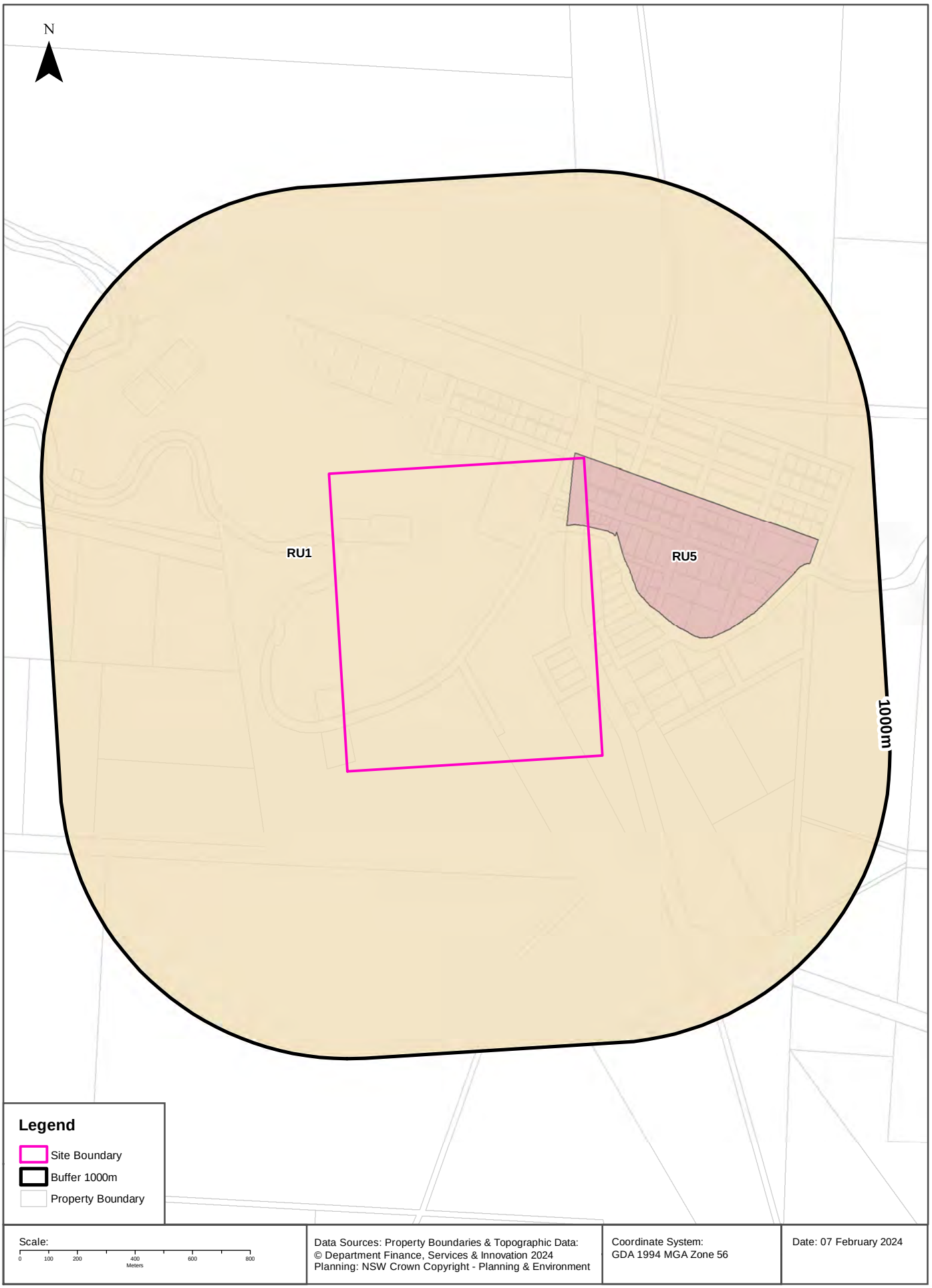
What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
N/A	No records in buffer							

State Environment Planning Policy Data Source: NSW Crown Copyright - Planning & Environment
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EPI Planning Zones

Wanganella Regulator, Wanganella, NSW 2710



Environmental Planning Instrument

Wanganella Regulator, Wanganella, NSW 2710

Land Zoning

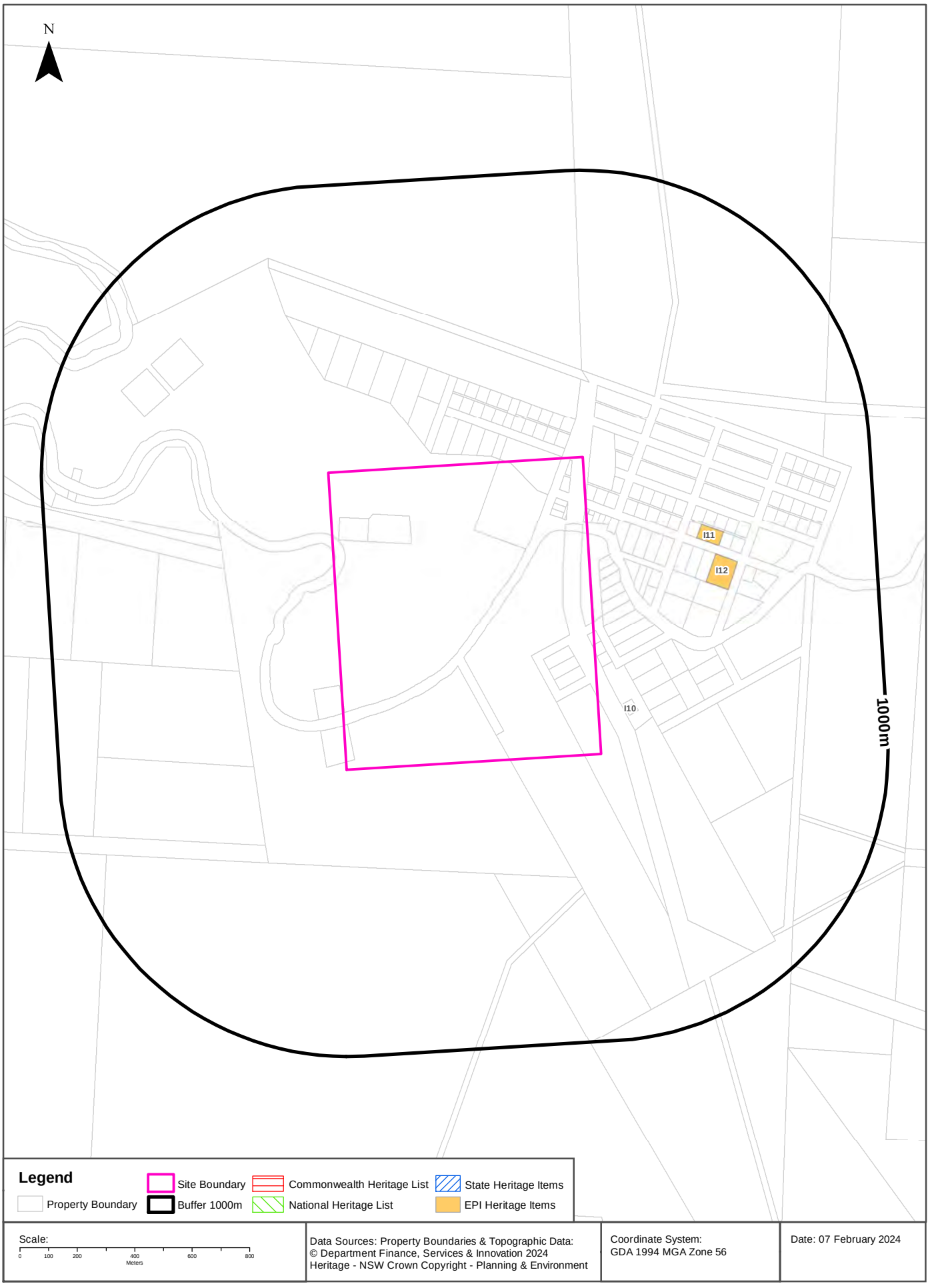
What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RU5	Village		Conargo Local Environmental Plan 2013	23/08/2013	23/08/2013	01/12/2021		0m	On-site
RU1	Primary Production		Conargo Local Environmental Plan 2013	23/08/2013	23/08/2013	01/12/2021		0m	On-site

Environmental Planning Instrument Data Source: NSW Crown Copyright - Planning & Environment
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Heritage Items

Wanganella Regulator, Wanganella, NSW 2710



Heritage

Wanganella Regulator, Wanganella, NSW 2710

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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National Heritage List

What are the National Heritage List Items located within the dataset buffer?
Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
Creative Commons 3.0 © Commonwealth of Australia https://creativecommons.org/licenses/by/3.0/au/deed.en

State Heritage Register - Curtilages

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage
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Environmental Planning Instrument - Heritage

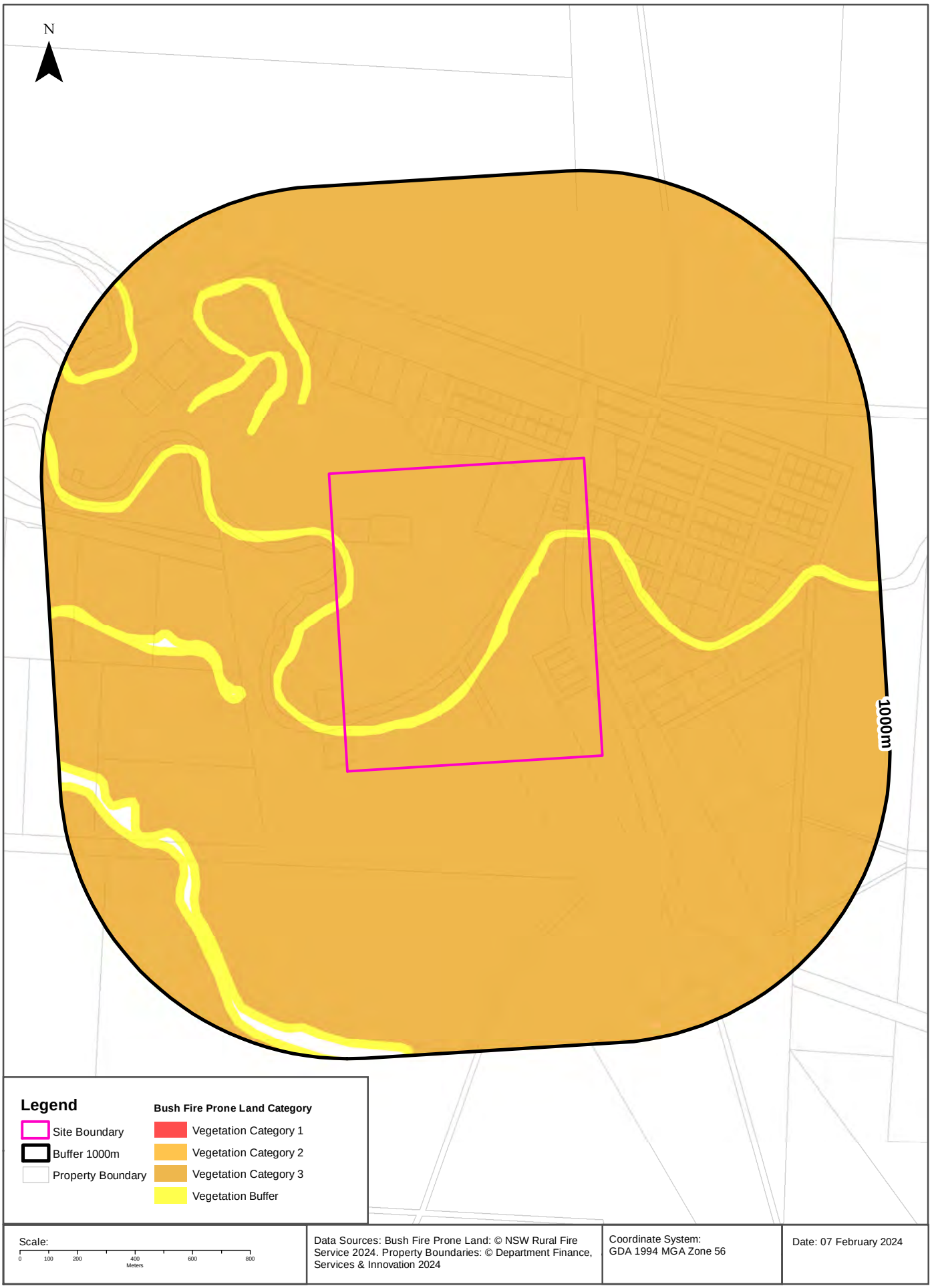
What are the EPI Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I10	Peppin Merino Memorial	Item - General	Local	Conargo Local Environmental Plan 2013	23/08/2013	23/08/2013	23/08/2013	100m	South East
I11	Wanganella Cobb & Co Stop (Former)	Item - General	Local	Conargo Local Environmental Plan 2013	23/08/2013	23/08/2013	23/08/2013	377m	East
I12	Wanganella School (Former)	Item - General	Local	Conargo Local Environmental Plan 2013	23/08/2013	23/08/2013	23/08/2013	400m	East

Heritage Data Source: NSW Crown Copyright - Planning & Environment
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Natural Hazards - Bush Fire Prone Land

Wanganella Regulator, Wanganella, NSW 2710



Data Sources: Bush Fire Prone Land: © NSW Rural Fire Service 2024. Property Boundaries: © Department Finance, Services & Innovation 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 07 February 2024

Natural Hazards

Wanganella Regulator, Wanganella, NSW 2710

Bush Fire Prone Land

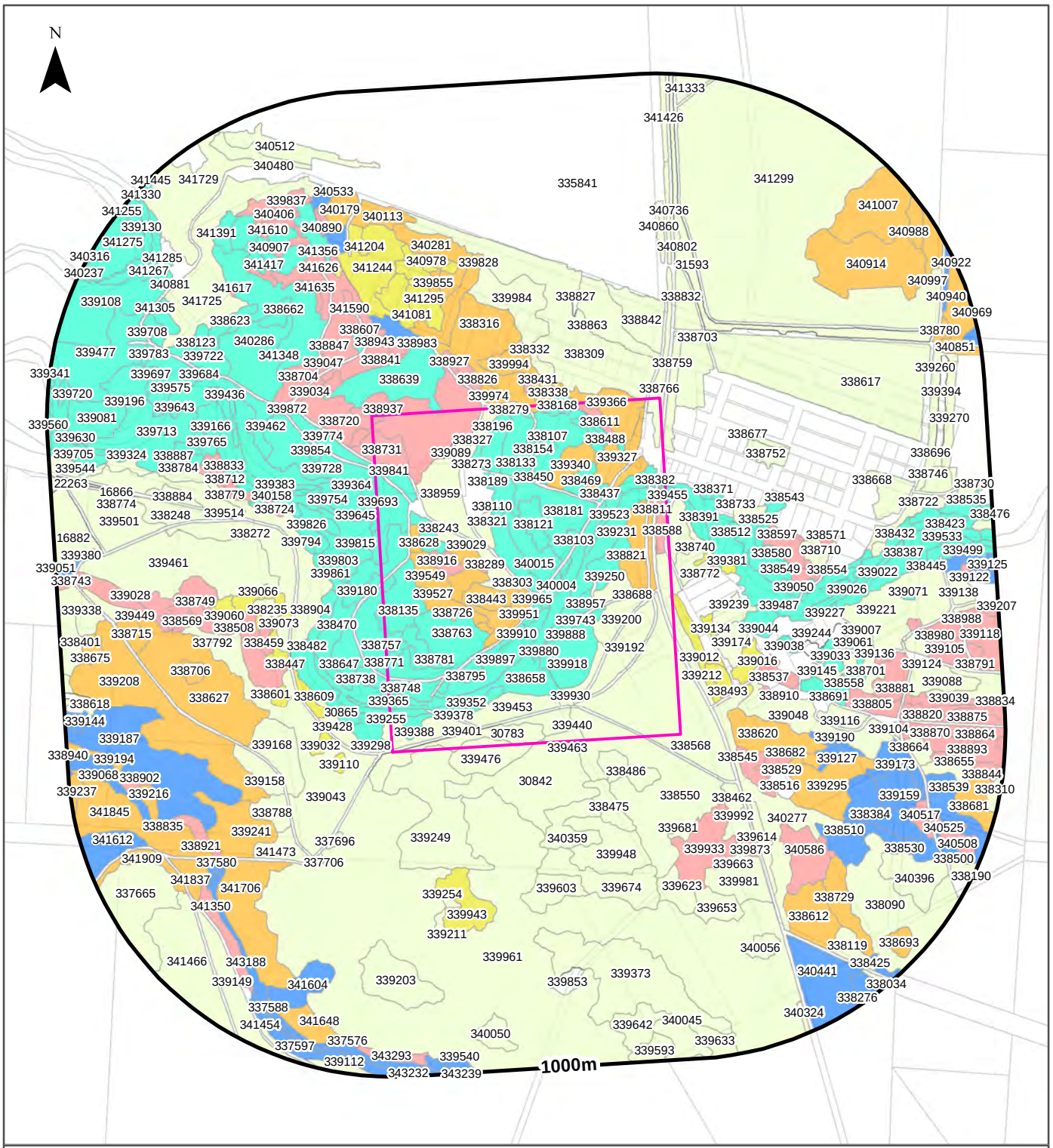
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
Vegetation Category 3	0m	On-site
Vegetation Buffer	0m	On-site

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

Ecological Constraints - Vegetation & Ramsar Wetlands

Wanganella Regulator, Wanganella, NSW 2710



Ecological Constraints

Wanganella Regulator, Wanganella, NSW 2710

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
30783	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
335841	Not classified	(Not classified) Not classified	Not classified	0m	On-site
338103	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338107	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338110	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338113	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338121	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338133	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338135	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338143	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338154	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338168	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338181	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338189	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338196	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338243	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
338273	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338279	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338289	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box open woodland wetland with chenopod understorey mainly on the outer floodplains in south-western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
338303	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
338316	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	0m	On-site
338321	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
338327	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
338379	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
338382	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
338437	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338443	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Black Roly Poly low open shrubland of the Riverina Bioregion and Murray Darling Depression Bioregion	Riverine Chenopod Shrublands	0m	On-site
338450	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338469	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338488	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338494	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338550	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
338568	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
338588	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
338611	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box open woodland wetland with chenopod understorey mainly on the outer floodplains in south-western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
338628	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338647	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
338658	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
338688	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
338720	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
338726	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Black Roly Poly low open shrubland of the Riverina Bioregion and Murray Darling Depression Bioregion	Riverine Chenopod Shrublands	0m	On-site
338731	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
338740	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
338748	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338757	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338763	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338766	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
338771	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338781	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338790	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338795	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338804	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Black Roly Poly low open shrubland of the Riverina Bioregion and Murray Darling Depression Bioregion	Riverine Chenopod Shrublands	0m	On-site
338811	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	0m	On-site
338812	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
338816	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Black Roly Poly low open shrubland of the Riverina Bioregion and Murray Darling Depression Bioregion	Riverine Chenopod Shrublands	0m	On-site
338821	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Black Roly Poly low open shrubland of the Riverina Bioregion and Murray Darling Depression Bioregion	Riverine Chenopod Shrublands	0m	On-site
338916	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site
338937	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	0m	On-site

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338957	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
338959	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
339029	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Black Roly Poly low open shrubland of the Riverina Bioregion and Murray Darling Depression Bioregion	Riverine Chenopod Shrublands	0m	On-site
339089	Not classified	(Not classified) Not classified	Not classified	0m	On-site
339192	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
339200	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
339212	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
339231	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
339250	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
339255	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
339327	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	0m	On-site
339340	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	0m	On-site
339352	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
339365	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
339366	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	0m	On-site
339378	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
339388	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
339401	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
339440	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
339453	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
339455	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
339463	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
339476	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site

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339523	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
339527	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Black Roly Poly low open shrubland of the Riverina Bioregion and Murray Darling Depression Bioregion	Riverine Chenopod Shrublands	0m	On-site
339542	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Black Roly Poly low open shrubland of the Riverina Bioregion and Murray Darling Depression Bioregion	Riverine Chenopod Shrublands	0m	On-site
339549	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Black Roly Poly low open shrubland of the Riverina Bioregion and Murray Darling Depression Bioregion	Riverine Chenopod Shrublands	0m	On-site
339693	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
339743	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
339841	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	On-site
339880	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	On-site
339888	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
339897	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
339902	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
339910	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
339918	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
339930	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	On-site
339939	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Black Roly Poly low open shrubland of the Riverina Bioregion and Murray Darling Depression Bioregion	Riverine Chenopod Shrublands	0m	On-site
339951	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Black Roly Poly low open shrubland of the Riverina Bioregion and Murray Darling Depression Bioregion	Riverine Chenopod Shrublands	0m	On-site
339965	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Black Roly Poly low open shrubland of the Riverina Bioregion and Murray Darling Depression Bioregion	Riverine Chenopod Shrublands	0m	On-site
340004	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
340015	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	On-site
30842	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	0m	South
338309	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	North
338639	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	0m	North West

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338759	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	North East
339012	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	0m	South East
339180	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	0m	West
339249	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	0m	South
339298	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	South West
339487	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	East
339645	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	West
339774	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	0m	North West
338338	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	6m	North
339364	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	8m	North West
339728	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	9m	North West
339974	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	9m	North
338772	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	11m	East
338431	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	18m	North
339815	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	22m	West
338294	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box open woodland wetland with chenopod understorey mainly on the outer floodplains in south-western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	26m	North
338391	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	26m	East
338486	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	36m	South East
339428	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	37m	South West
338703	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	45m	North East
339043	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	48m	South West
338826	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	56m	North
338738	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	59m	South West

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339356	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	72m	East
339803	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	74m	West
339134	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) White Cypress Pine open woodland of sand plains, prior streams and dunes mainly of the semi-arid (warm) climate zone	Riverine Sandhill Woodlands	79m	East
338332	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	84m	North
338493	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	85m	South East
339445	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	89m	North East
30865	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	92m	South West
338927	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	94m	North
339994	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	94m	North
340277	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	102m	South East
339961	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	106m	South
339861	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	107m	West
338470	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	111m	West
338562	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	114m	East
339174	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	114m	East
338863	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	116m	North
339239	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	117m	East
339754	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	119m	West
338371	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	121m	North East
339826	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	121m	West
338475	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	122m	South
338841	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	134m	North West

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
338842	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	139m	North East
338620	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	145m	South East
339713	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	145m	North West
339110	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) White Cypress Pine open woodland of sand plains, prior streams and dunes mainly of the semi-arid (warm) climate zone	Riverine Sandhill Woodlands	147m	South West
338904	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	151m	West
339381	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	152m	East
339854	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	163m	North West
339016	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	165m	East
338545	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	177m	South East
339034	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	177m	North West
339048	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	177m	South East
340158	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	179m	West
338983	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	180m	North West
340359	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	180m	South
339032	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) White Cypress Pine open woodland of sand plains, prior streams and dunes mainly of the semi-arid (warm) climate zone	Riverine Sandhill Woodlands	183m	South West
339383	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	183m	West
338512	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	186m	East
339984	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	187m	North
338847	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	188m	North West
338733	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	192m	East
338617	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	194m	North East

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
338609	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) White Cypress Pine open woodland of sand plains, prior streams and dunes mainly of the semi-arid (warm) climate zone	Riverine Sandhill Woodlands	195m	South West
339047	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	196m	North West
338462	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	197m	South East
339044	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	197m	East
338503	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	198m	South East
338607	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	199m	North West
339794	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	200m	West
339828	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	201m	North
338525	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	205m	East
339680	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	208m	West
338704	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	213m	North West
338832	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	219m	North East
338943	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	219m	North West
341348	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	222m	North West
339079	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	227m	North West
338537	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	230m	East
339948	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	232m	South
338482	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	233m	West
338953	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	235m	North West
338549	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	238m	East
339872	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	239m	North West

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338752	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	243m	North East
339933	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Weeping Myall open woodland of the Riverina Bioregion and NSW South Western Slopes Bioregion	Riverine Plain Woodlands	244m	South East
341295	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	247m	North
338454	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box open woodland wetland with chenopod understorey mainly on the outer floodplains in south-western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	248m	South East
338529	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	250m	South East
338677	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	250m	North East
31593	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	251m	North East
341081	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	260m	North West
341626	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	260m	North West
338272	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	263m	West
338543	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	264m	East
338827	Not classified	(Not classified) Not classified	Not classified	267m	North
338580	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	268m	East
339681	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	274m	South East
339073	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	283m	West
339992	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	283m	South East
339168	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	284m	South West
338910	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box open woodland wetland with chenopod understorey mainly on the outer floodplains in south-western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	286m	South East
338597	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	288m	East
340286	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	289m	North West
338667	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	291m	West

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338724	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	291m	West
337696	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	294m	South West
341299	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	294m	North East
341244	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	297m	North West
339614	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	300m	South East
338508	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	301m	West
339038	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	301m	East
338516	Not classified	(Not classified) Not classified	Not classified	302m	South East
338601	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) White Cypress Pine open woodland of sand plains, prior streams and dunes mainly of the semi-arid (warm) climate zone	Riverine Sandhill Woodlands	302m	South West
339462	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	302m	North West
338447	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	303m	West
338682	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	307m	South East
339461	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	314m	West
338235	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	315m	West
339674	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	324m	South
341590	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	325m	North West
339295	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	326m	South East
339050	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	331m	East
338459	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	344m	West
340281	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	348m	North
339855	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	349m	North
339158	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	352m	South West

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338851	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	354m	West
338788	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	356m	South West
339166	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	356m	North West
341635	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	356m	North West
338823	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	364m	West
338556	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	369m	East
338627	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	369m	West
338712	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	369m	West
339943	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) White Cypress Pine open woodland of sand plains, prior streams and dunes mainly of the semi-arid (warm) climate zone	Riverine Sandhill Woodlands	369m	South
339066	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	372m	West
338691	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	374m	East
339663	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	381m	South East
339873	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	381m	South East
338673	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	382m	South East
337706	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	383m	South West
338662	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	385m	North West
339001	Not classified	(Not classified) Not classified	Not classified	386m	East
340805	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	386m	North
341473	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	386m	South West
338710	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	394m	East
339190	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	394m	South East
339026	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	399m	East
339208	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	399m	West

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339623	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	399m	South East
339603	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	401m	South
339981	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	402m	South East
339056	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	404m	East
339244	Not classified	(Not classified) Not classified	Not classified	406m	East
338833	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	407m	West
339514	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	407m	West
339145	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	409m	East
340736	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	411m	North
339067	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	414m	East
339668	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	414m	North West
340860	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	414m	North
340586	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	415m	South East
339127	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	417m	South East
339116	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	419m	South East
341009	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	419m	North
339436	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	421m	North West
339241	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	428m	South West
340978	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	428m	North
340933	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	435m	North West
338248	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	437m	West
341020	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	438m	North
339254	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	439m	South

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
338779	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	441m	West
339084	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	442m	East
339033	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	447m	East
340802	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	454m	North East
339060	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	457m	West
339722	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	457m	North West
338571	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	461m	East
341706	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	461m	South West
339227	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	463m	East
339765	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	468m	West
338554	Forested Wetlands	(Forested Wetlands) River Red Gum - Lignum very tall open forest or woodland wetland on floodplains of semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	474m	East
339653	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	474m	South East
338558	Not classified	(Not classified) Not classified	Not classified	477m	East
339187	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	478m	South West
338623	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	480m	North West
341356	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	488m	North West
341204	Semi-arid Woodlands (Shrubby sub-formation)	(Semi-arid Woodlands (Shrubby sub-formation)) Cypress Pine woodland of source-bordering dunes mainly on the Murray and Murrumbidgee River floodplains	Riverine Sandhill Woodlands	491m	North West
339211	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	492m	South
338510	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	495m	South East
338784	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	497m	West
339061	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	497m	East
341583	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	497m	North West

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338701	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	504m	East
339792	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	506m	North West
338749	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	507m	West
338805	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	508m	East
341725	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	510m	North West
337792	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	511m	West
339221	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	512m	East
339007	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	517m	East
338887	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	520m	West
339416	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	528m	West
339684	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	534m	North West
338384	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	535m	South East
338884	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	537m	West
338123	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	546m	North West
341451	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	547m	North West
339575	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	552m	North West
340907	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	557m	North West
341417	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	557m	North West
338706	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	558m	West
341617	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	558m	North West
338404	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	560m	East
339136	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	562m	East

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338530	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	565m	South East
340113	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	567m	North
339373	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	568m	South
339022	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	572m	East
340179	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	575m	North West
340890	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box open woodland wetland with chenopod understorey mainly on the outer floodplains in south-western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	576m	North West
339173	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	579m	South East
339203	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	579m	South
338569	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	580m	West
341514	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	581m	North West
338432	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	582m	East
339643	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	582m	North West
341645	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box open woodland wetland with chenopod understorey mainly on the outer floodplains in south-western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	584m	North West
338612	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	586m	South East
338881	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	595m	East
340914	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	596m	North East
338729	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	601m	South East
338722	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	603m	East
338964	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	608m	East
338921	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	610m	South West
337580	Freshwater Wetlands	(Freshwater Wetlands) Common Reed - Bushy Groundsel aquatic tall reedland grassland wetland of inland river systems	Inland Floodplain Swamps	611m	South West
339159	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	612m	South East

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338668	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	618m	East
339281	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	618m	East
341610	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	627m	North West
343188	Freshwater Wetlands	(Freshwater Wetlands) Common Reed - Bushy Groundsel aquatic tall reedland grassland wetland of inland river systems	Inland Floodplain Swamps	627m	South West
343225	Freshwater Wetlands	(Freshwater Wetlands) Common Reed - Bushy Groundsel aquatic tall reedland grassland wetland of inland river systems	Inland Floodplain Swamps	627m	South West
339104	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	635m	South East
341845	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	635m	South West
341476	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	636m	North West
339080	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	638m	West
341305	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	646m	North West
338090	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	650m	South East
339501	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	651m	West
341837	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	657m	South West
340533	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	659m	North West
340056	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	660m	South East
340406	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	661m	North West
341391	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	666m	North West
338820	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	673m	East
338870	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	673m	East
339697	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	673m	North West
338387	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	678m	East
339906	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	679m	North West
341604	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	680m	South West

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338664	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	686m	South East
338875	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	688m	East
339837	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	693m	North West
338835	Freshwater Wetlands	(Freshwater Wetlands) Lignum shrubland wetland of the semi-arid (warm) plains (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Shrublands	696m	South West
339853	Not classified	(Not classified) Not classified	Not classified	696m	South
340441	Freshwater Wetlands	(Freshwater Wetlands) Lignum shrubland wetland of the semi-arid (warm) plains (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Shrublands	696m	South East
341350	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	697m	South West
339783	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	699m	North West
339071	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	701m	East
339088	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	701m	East
340305	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	707m	North West
339091	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box open woodland wetland with chenopod understorey mainly on the outer floodplains in south-western NSW (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	713m	East
339477	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	713m	North West
339708	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	718m	North West
340396	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	718m	South East
341729	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	720m	North West
339028	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	721m	West
339449	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	721m	West
340517	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	722m	South East
338715	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	724m	West
341426	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	725m	North
341007	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	727m	North East

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
339196	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	730m	North West
339533	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	733m	East
339105	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	736m	East
339324	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	736m	West
340881	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	736m	North West
338423	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	738m	East
339124	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	738m	East
339216	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Dillon Bush (Nitre Bush) shrubland of the semi-arid and arid zones	Riverine Chenopod Shrublands	738m	South West
338982	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	742m	South East
338893	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	743m	East
339108	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	743m	North West
338902	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	748m	South West
339081	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	754m	West
339039	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	756m	East
340512	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	758m	North West
341909	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	759m	South West
338539	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	761m	South East
338696	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	764m	East
341466	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	765m	South West
341285	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	767m	North West
339149	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	768m	South West
338980	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	769m	East

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338853	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	770m	South East
338119	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	771m	South East
338445	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	771m	East
339392	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	776m	West
337665	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	778m	South West
340480	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	778m	North West
338746	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	779m	East
338774	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	784m	West
18589	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	787m	West
16866	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	794m	West
338655	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	795m	South East
22263	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	802m	West
341612	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	805m	South West
340525	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	806m	South East
341267	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	806m	North West
339705	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	812m	West
339642	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	816m	South
341648	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	819m	South West
340050	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	821m	South
339194	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	827m	South West
339299	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	829m	East
339499	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	829m	East
339394	Not classified	(Not classified) Not classified	Not classified	832m	East
338366	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	834m	East

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338535	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	834m	East
338500	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	836m	South East
338631	Freshwater Wetlands	(Freshwater Wetlands) Lignum shrubland wetland of the semi-arid (warm) plains (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Shrublands	837m	East
339260	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	843m	North East
339138	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	844m	East
339270	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	844m	East
338864	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	847m	East
339087	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	849m	West
337597	Freshwater Wetlands	(Freshwater Wetlands) Common Reed - Bushy Groundsel aquatic tall reedland grassland wetland of inland river systems	Inland Floodplain Swamps	851m	South West
341275	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	852m	North West
338780	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	853m	North East
340045	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	855m	South
341382	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	856m	North West
16882	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	857m	West
339207	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	857m	East
339338	Grasslands	(Grasslands) Forb-rich Speargrass - Windmill Grass - White Top grassland of the Riverina Bioregion	Riverine Plain Grasslands	857m	West
338681	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	863m	South East
337588	Freshwater Wetlands	(Freshwater Wetlands) Common Reed - Bushy Groundsel aquatic tall reedland grassland wetland of inland river systems	Inland Floodplain Swamps	865m	South West
340851	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	867m	North East
338988	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	869m	East
338675	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	870m	West
339633	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	872m	South
339310	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	873m	East
338730	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	877m	East

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340922	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	878m	North East
339118	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	879m	East
339068	Freshwater Wetlands	(Freshwater Wetlands) Lignum shrubland wetland of the semi-arid (warm) plains (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Shrublands	881m	South West
338693	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	884m	South East
338814	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	885m	East
339720	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	886m	West
338605	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	887m	East
338844	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	888m	South East
339122	Freshwater Wetlands	(Freshwater Wetlands) Lignum shrubland wetland of the semi-arid (warm) plains (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Shrublands	889m	East
340508	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	890m	South East
340997	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	893m	North East
337576	Freshwater Wetlands	(Freshwater Wetlands) Common Reed - Bushy Groundsel aquatic tall reedland grassland wetland of inland river systems	Inland Floodplain Swamps	894m	South
338425	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	894m	South East
338791	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	894m	East
340324	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	899m	South East
339630	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	900m	West
339380	Freshwater Wetlands	(Freshwater Wetlands) Lignum shrubland wetland of the semi-arid (warm) plains (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Shrublands	902m	West
338476	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	905m	East
338618	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	905m	West
338940	Freshwater Wetlands	(Freshwater Wetlands) Lignum shrubland wetland of the semi-arid (warm) plains (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Shrublands	905m	West
339415	Not classified	(Not classified) Not classified	Not classified	905m	West
341333	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	905m	North
340988	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	906m	North East

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340940	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	908m	North East
343293	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	908m	South
338276	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	909m	South East
339593	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	909m	South
339544	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	910m	West
338034	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	914m	South East
339130	Forested Wetlands	(Forested Wetlands) River Red Gum-sedge dominated very tall open forest in frequently flooded forest wetland along major rivers and floodplains in south-western NSW	Inland Riverine Forests	915m	North West
341454	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	918m	South West
338190	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	920m	South East
339144	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	925m	West
338401	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	927m	West
338716	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	932m	East
338834	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	932m	East
339540	Freshwater Wetlands	(Freshwater Wetlands) Cumbungi rushland wetland of shallow semi-permanent water bodies and inland watercourses	Inland Floodplain Swamps	933m	South
343232	Freshwater Wetlands	(Freshwater Wetlands) Common Reed - Bushy Groundsel aquatic tall reedland grassland wetland of inland river systems	Inland Floodplain Swamps	935m	South
30853	Not classified	(Not classified) Not classified	Not classified	940m	West
339125	Freshwater Wetlands	(Freshwater Wetlands) Lignum shrubland wetland of the semi-arid (warm) plains (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Shrublands	940m	East
343239	Freshwater Wetlands	(Freshwater Wetlands) Shallow marsh wetland of regularly flooded depressions on floodplains mainly in the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Swamps	940m	South
339237	Arid Shrublands (Chenopod sub-formation)	(Arid Shrublands (Chenopod sub-formation)) Cotton Bush open shrubland of the semi-arid (warm) zone	Riverine Chenopod Shrublands	942m	South West
340969	Freshwater Wetlands	(Freshwater Wetlands) Nitre Goosefoot shrubland wetland on clays of the inland floodplains	Inland Floodplain Shrublands	948m	North East
338743	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	950m	West
338972	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	952m	East
338310	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	953m	South East
339509	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	953m	East

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
338396	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	955m	East
340237	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	956m	North West
339112	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	963m	South
341330	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	963m	North West
343323	Freshwater Wetlands	(Freshwater Wetlands) Lignum shrubland wetland of the semi-arid (warm) plains (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Shrublands	967m	South
339560	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	968m	West
338197	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	970m	West
338725	Semi-arid Woodlands (Grassy sub-formation)	(Semi-arid Woodlands (Grassy sub-formation)) Black Box - Lignum woodland wetland of the inner floodplains in the semi-arid (warm) climate zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Woodlands	970m	East
341445	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	974m	North West
339051	Grasslands	(Grasslands) Curly Windmill Grass - speargrass - wallaby grass grassland on alluvial clay and loam on the Hay Plain, Riverina Bioregion	Riverine Plain Grasslands	975m	West
339657	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	981m	West
339082	Freshwater Wetlands	(Freshwater Wetlands) Lignum shrubland wetland of the semi-arid (warm) plains (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Floodplain Shrublands	985m	South West
339341	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	988m	North West
341255	Forested Wetlands	(Forested Wetlands) River Red Gum - Warrego Grass - herbaceous riparian tall open forest wetland mainly in the Riverina Bioregion	Inland Riverine Forests	988m	North West
340316	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	993m	North West
338374	Forested Wetlands	(Forested Wetlands) River Red Gum - Black Box woodland wetland of the semi-arid (warm) climatic zone (mainly Riverina Bioregion and Murray Darling Depression Bioregion)	Inland Riverine Forests	998m	East

Native Vegetation Type Map : NSW Department of Planning and Environment 2022
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Ramsar Wetlands

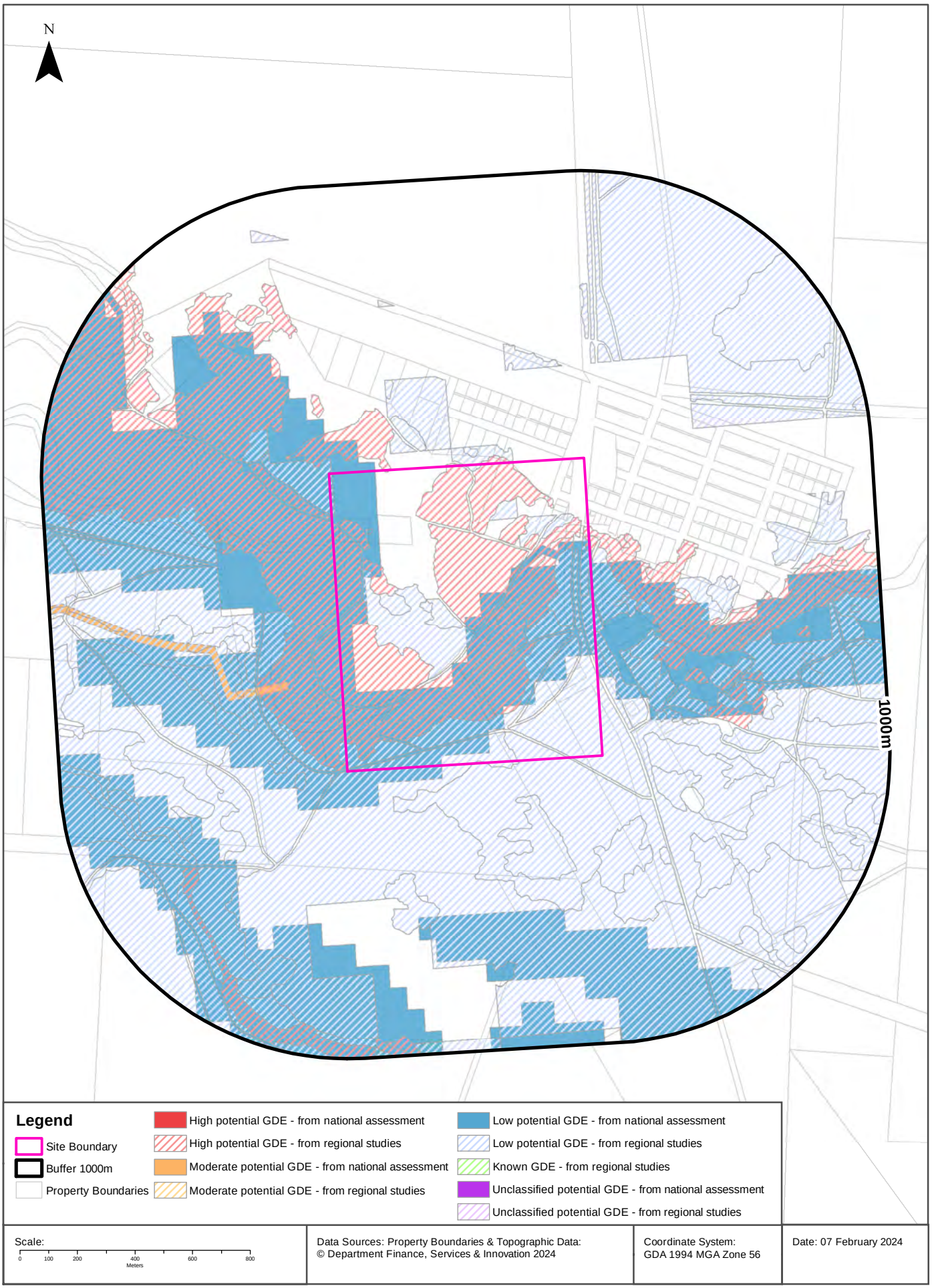
What Ramsar Wetland areas exist within the dataset buffer?

Map Id	Ramsar Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Agriculture, Water and the Environment

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

Wanganella Regulator, Wanganella, NSW 2710



Ecological Constraints

Wanganella Regulator, Wanganella, NSW 2710

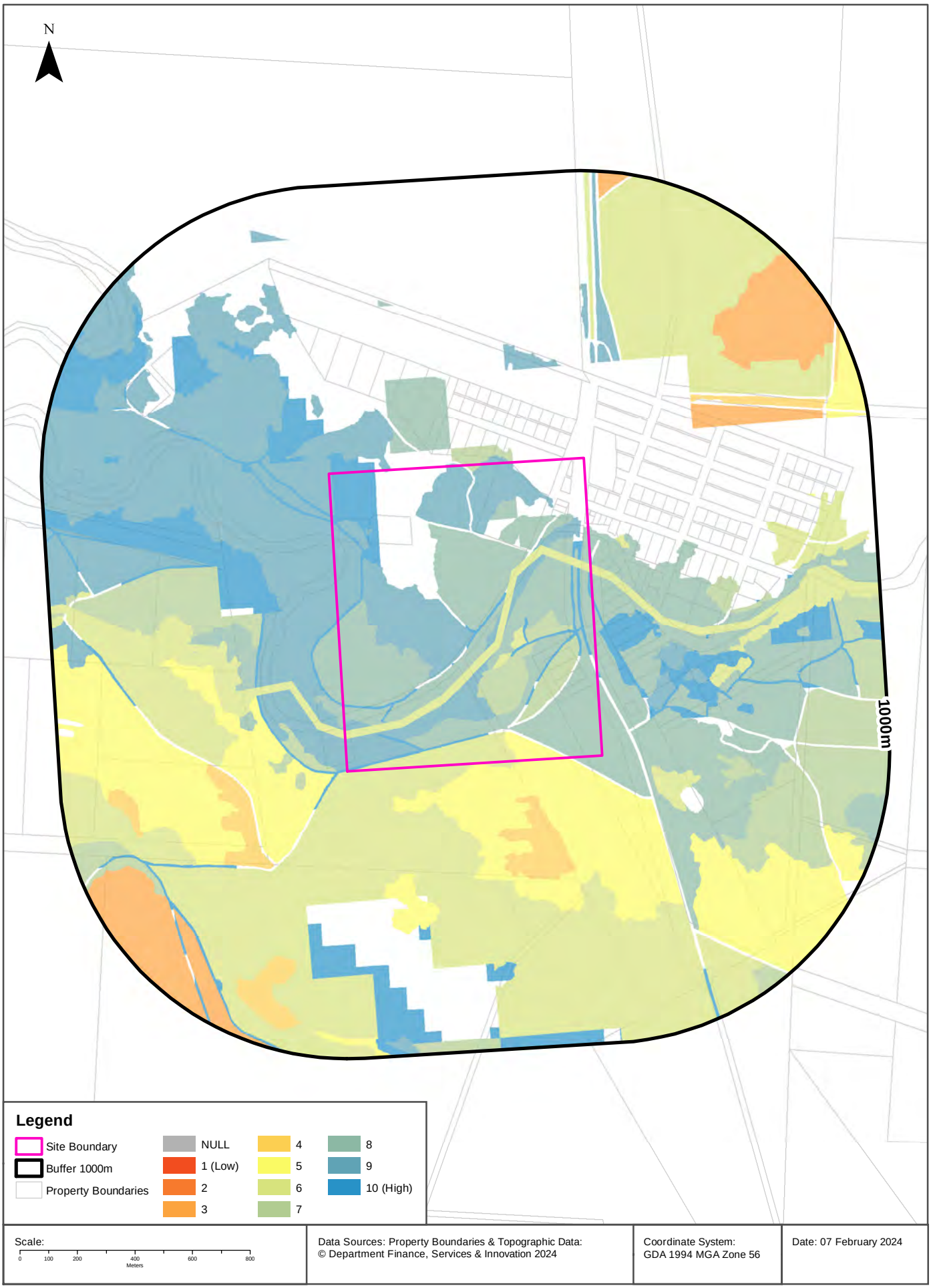
Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Aquatic	Low potential GDE - from national assessment	Alluvial plain.	Wetland		0m	On-site
Aquatic	Low potential GDE - from national assessment	Alluvial plain.	River		0m	On-site
Terrestrial	High potential GDE - from regional studies	Alluvial plain.	Vegetation		0m	On-site
Terrestrial	Low potential GDE - from regional studies	Alluvial plain.	Vegetation		0m	On-site
Aquatic	Moderate potential GDE - from national assessment	Alluvial plain.	River		185m	West

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology
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Ecological Constraints - Inflow Dependent Ecosystems Likelihood

Wanganella Regulator, Wanganella, NSW 2710



Ecological Constraints

Wanganella Regulator, Wanganella, NSW 2710

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Aquatic	10	Alluvial plain.	Wetland		0m	On-site
Aquatic	6	Alluvial plain.	River		0m	On-site
Terrestrial	5	Alluvial plain.	Vegetation		0m	On-site
Terrestrial	7	Alluvial plain.	Vegetation		0m	On-site
Terrestrial	8	Alluvial plain.	Vegetation		0m	On-site
Terrestrial	9	Alluvial plain.	Vegetation		0m	On-site
Terrestrial	6	Alluvial plain.	Vegetation		0m	On-site
Aquatic	10	Alluvial plain.	River		0m	On-site
Terrestrial	4	Alluvial plain.	Vegetation		122m	South
Terrestrial	10	Alluvial plain.	Vegetation		354m	West
Terrestrial	3	Alluvial plain.	Vegetation		390m	North East

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology
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Ecological Constraints

Wanganella Regulator, Wanganella, NSW 2710

NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Aphelocephala leucopsis	Southern Whiteface	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Botaurus poiciloptilus	Australasian Bittern	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Calidris acuminata	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris melanotos	Pectoral Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Certhionyx variegatus	Pied Honeyeater	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Circus assimilis	Spotted Harrier	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Grantiella picta	Painted Honeyeater	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Grus rubicunda	Brolga	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Lophochroa leadbeateri	Major Mitchell's Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Melanodryas cucullata cucullata	South-eastern Hooded Robin	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Neophema chrysostoma	Blue-winged Parrot	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Pedionomus torquatus	Plains-wanderer	Endangered	Category 3	Critically Endangered	
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Vulnerable	Category 3	Vulnerable	
Animalia	Aves	Pomatostomus temporalis temporalis	Grey-crowned Babbler (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Tringa glareola	Wood Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Brachyscome papillosa	Mossgiel Daisy	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Maireana cheelii	Chariot Wheels	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Stenopetalum velutinum	Velvet Thread-petal	Extinct	Not Sensitive	Not Listed	
Plantae	Flora	Swainsona murrayana	Slender Darling Pea	Vulnerable	Not Sensitive	Vulnerable	

Data does not include NSW category 1 sensitive species.
NSW BioNet: © State of NSW and Office of Environment and Heritage

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Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading “LC” or “LocConf”. These codes lookup to the following location confidences:

LC Code	Location Confidence
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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