



AITKEN ROWE TESTING LABORATORIES PTY LTD

PRELIMINARY ENVIRONMENTAL SITE INVESTIGATION

DAMASA PTY LTD

**80-82 MURRAY STREET AND 185 MORGAN STREET, WAGGA WAGGA,
NSW**

E22-030A

REPORT DETAILS

Report Type: Preliminary Site Investigation

Report Title: Preliminary Environmental Site Investigation 80-82 Murray Street and 185 Morgan Street, Wagga Wagga, NSW

Client: Damasa Pty Ltd

Report Registration Number: E22-030A

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EXECUTIVE SUMMARY

Aitken Rowe Testing Laboratories (ARTL) was commissioned by Damasa Pty Ltd to undertake a Preliminary Environmental Site Investigation to assess the potential for contamination at 80-82 Murray Street and 185 Morgan Street, Wagga Wagga (the site). The site currently consists of Lot 1 in Deposited Plan 1027240 and Lot 1 in Deposited Plan 550746 in the local government area of Wagga Wagga, NSW.

It is understood that the current owners are planning to re-develop the site and it is the purpose of this investigation to aid in the development application process by complying with State Environmental Planning Policy (Resilience and Hazards) 2021. The site is located within the Mixed Use (B4) zone of Wagga Wagga. The site has been previously developed with 6 commercial buildings, a residential dwelling and internal driveways and hardstand areas for vehicle movement and parking.

It is understood the proposed development will consist of a six storey residential apartment building with likely inclusion of basement car parking (first stage) and a series of single storey commercial buildings (future stages). All existing buildings will be demolished as part of the development.

The site is bound by a mixture of commercial and residential properties. Commercial properties lie to the west. Residential properties lie to the north, east and south. Morgan Street lies south, Murray Street East, Forsyth Street north and further west is Docker Street.

The site has a historical use as agriculture and various commercial uses since development commenced in the 1940's. Commercial properties exist to the immediate west. The large warehouse building in the north east and residential dwelling were constructed in the 1940's.

There is a potential for contamination from pesticide application, hazardous materials used in the construction of buildings, previous commercial use at the site including possible machinery/air conditioning maintenance, leakage of fuel/oils from vehicle storage and stormwater runoff entering the site from Forsyth Street (north), Murray Street (east) and Morgan Street (South). The risk of significant and widespread contamination at the site is considered low, however further investigative works including soil sampling and analysis is recommended.

This Preliminary Environmental Site Assessment has met the objective of assessing the potential for contamination at the site. **It is concluded that the risk of significant and widespread contamination is low, however is potentially present.**

This Preliminary Environmental Site Assessment provides the framework for the development of Sampling and Analysis Quality Plan which can then be followed as part of Detailed Site Investigation works.

ABBREVIATIONS

BTEX	Benzene, Toluene, Ethylbenzene and Xylene
DQI	Data Quality Indicators
EIL	Ecological Investigation Level
ESL	Ecological Screening Levels
HIL	Health Investigation Level
HSL	Health Screening Level
NATA	National Association of Testing Authorities
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
NL	Not Limiting
OCP	Organochlorine Pesticides
OPP	Organophosphate Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PFAS	Per and Polyfluoroalkyl Substances
QA/QC	Quality Assurance/Quality Control
TRH	Total Recoverable Hydrocarbons

1. INTRODUCTION

1.1 Overview

Aitken Rowe Testing Laboratories (ARTL) was commissioned by Damasa Pty Ltd to undertake a Preliminary Environmental Site Investigation to assess the potential for contamination at 80-82 Murray Street and 185 Morgan Street, Wagga Wagga (the site). The site currently consists of Lot 1 in Deposited Plan 1027240 and Lot 1 in Deposited Plan 550746 in the local government area of Wagga Wagga, NSW.

It is understood that the current owners are planning to re-develop the site and it is the purpose of this investigation to aid in the development application process by complying with State Environmental Planning Policy (Resilience and Hazards) 2021. The site is located within the Mixed Use (B4) zone of Wagga Wagga. The site has been previously developed with 6 commercial buildings, a residential dwelling and internal driveways and hardstand areas for vehicle movement and parking.

1.2 Proposed Development

It is understood the proposed development will consist of a six storey residential apartment building with likely inclusion of basement car parking (first stage) and a series of single storey commercial buildings (future stages). All existing buildings will be demolished as part of the development (Appendix A).

1.3 Objectives

The objectives of the investigation are to:

- Identify past and present potential contaminating activities.
- Assess the risk of these contaminant sources with respect to the contamination status of the site.
- Conclude whether or not the site is suitable for the proposed use as zoned without further assessment or provide recommendations for further assessment (if required) to enable such conclusions.

1.4 Scope of Work

The scope of work undertaken by ARTL to meet the objectives comprised the following:

- Review of historical information including, aerial photographs, NSW EPA contaminated lands records and anecdotal information.
- Review of geology, topography, and hydrology of the site.
- Detailed site inspection.
- Assessment of data collected during the investigation.
- The completion of a formal report in accordance with guidelines made or approved by the NSW EPA under the Contaminated Land Management Act 1997 (NSW), presenting results, potential for contamination and recommendations for further assessment if required.

1.5 Legislative Requirements

Wagga Wagga City Council is the consent authority for this proposal and these investigation works have been undertaken in accordance with the appropriate legislative environmental and human health requirements. The following guidelines, standards and publications will be followed for appropriate methodologies and technical requirements for the works:

- Contaminated Land Guidelines; Consultants Reporting on Contaminated Land, NSW EPA 2020.
- National Environment Protection (Assessment of Site Contamination) Measure, National Environment Protection Council, Amended 2013 (NEPC, 2013).

- Contaminated Land Management Act (1997) No 140.

The requirements are reflected in ARTL's work method procedures and quality management system. ARTL recognise there are data gaps within this investigation. These gaps and associated recommendations are outlined throughout the report.

2 SITE IDENTIFICATION

2.1 Site Location

The site is located on Murray and Morgan Streets, less than 1km west of the central business district of Wagga Wagga as shown on Figure 1. The site consists of Lot 1 in Deposited Plan (DP) 1027240 and Lot 1 in DP 550746, County of Wynyard, Parish of South Wagga in the Local Government Area of Wagga Wagga.

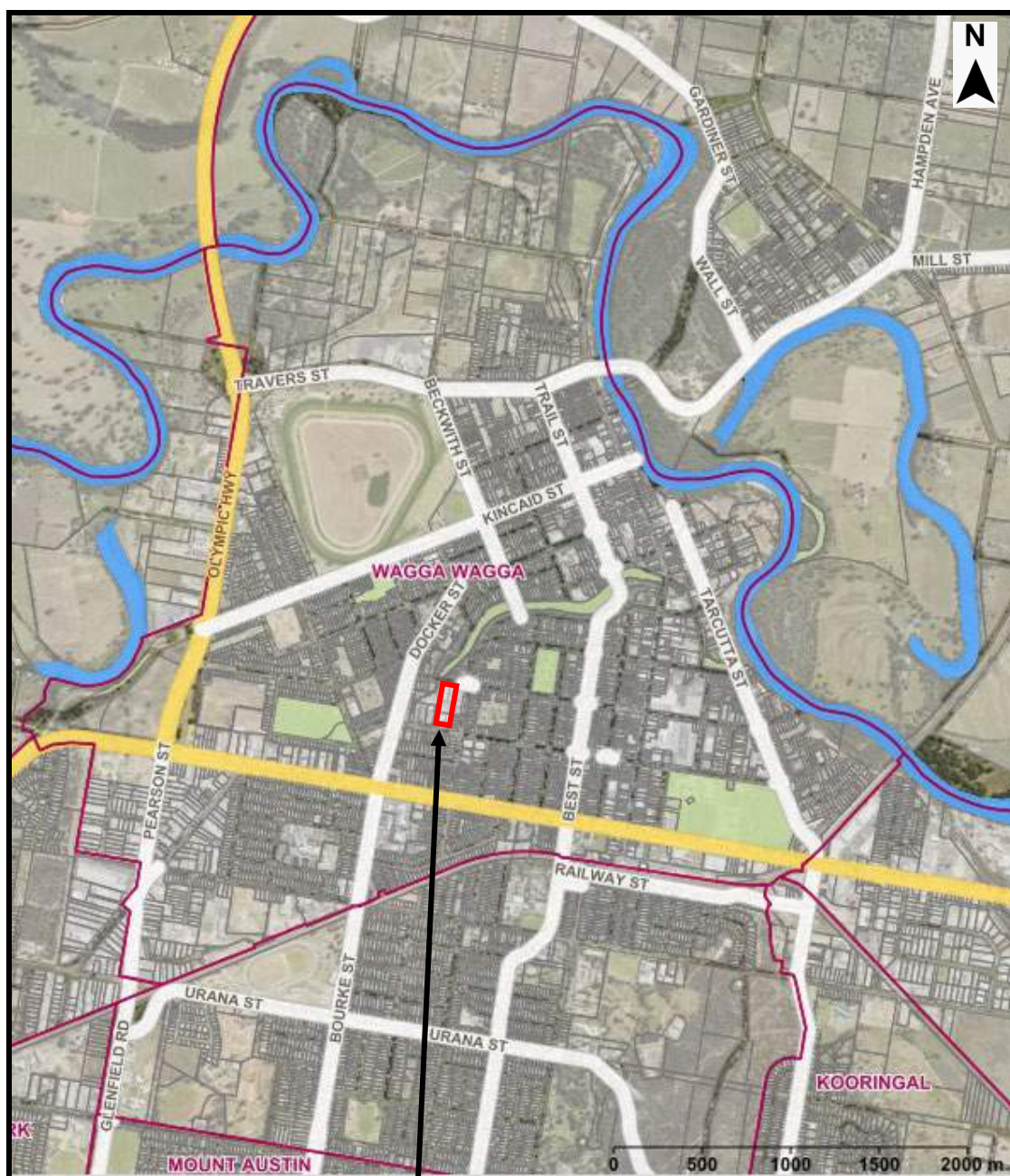


Figure 1: Aerial photograph displaying the site and surrounds (© WWCC Intramaps 2022).

2.2 Site Details Summary

Table 1 provides a summary of Site details.

Table 1: Site detail summary

Site Details	
Site Address	80-82 Murray Street & 185 Morgan Street, Wagga Wagga, NSW
Title Identification	Lot 1 DP 1027240 and Lot 1 DP 550746
Current Site Use	Mixed Use (Commercial/Residential)
Future Site Use	Mixed Use (Commercial/Residential)
Site Area/Investigation Area	1.7Ha (approx.)

2.3 Surrounding Land-use

The site is bound by a mixture of commercial and residential properties. Commercial properties lie to the west. Residential properties lie to the north, east and south. Morgan Street lies south, Murray Street East, Forsyth Street north and further west is Docker Street.

3 PHYSICAL SETTING

3.1 Site Topography and Hydrology

Geology

The Geological Series Sheet for Wagga Wagga (S1-55-15) indicate that the Wagga Wagga area is generally underlain by alluvium material, comprising sand, silt and clay (floodplain sediments), which is noted to be underlain by Ordovician aged shale, subgreywacke, quartzite, impure sandstone, black (carbonaceous) slate and siltstone associated with the Wagga Marginal Basin at the southwestern side (Calvary hospital) and southeastern side (Botanical Gardens & Willan Hills) and Palaeozoic granite bedrock at the eastern side (Church Street near Wagga Wagga Beach area).

The geotechnical investigation, currently being undertaken by ARTL indicates the area is generally underlain by hardstand (concrete and bitumen) and fill comprising low to medium & medium plasticity sandy silty clay & silty clay and fine to coarse grained silty sand & sand to 0.3m to 1.0m, overlying natural alluvial material comprising low to medium, medium, medium to high & high plasticity silty clay, sandy clay, sandy silty clay & clay and fine to coarse grained silty sand & sandy gravel and then cobbles extending to 16.0m. These materials encountered are like those described in the Geological Series Sheet for Wagga Wagga (S1-55-15) for flood plain sediments. A borehole location plan is attached in Appendix A and draft borehole logs in Appendix B.

Hydrogeology

There are more than 200 registered groundwater bores within 2000m of the site. Twenty-seven of these are used for water supply, irrigation or dewatering purposes. The remainder are used for monitoring, or their use is unknown.

The site is within a region that overlies semi-confined and unconfined aquifers associated with the shallow Quaternary alluvium and the underlying Ordovician metasediments. The water table in the area

of the site ranges from 9-12.3m below ground surface in the alluvium aquifer. Shallow perched water was also noted between 1.5m to 3.2m during drilling the boreholes for the geotechnical investigation. This perched water was found within higher content granular layers - silty sands and sandy silty clays

The site is located within the Murrumbidgee River Catchment and prior to surrounding development it is assumed would have formed part of the highly ephemeral flooding/drying regimes of the River floodplain. There are no defined waterways within the site. The Wollundry Lagoon lies across Forsyth Street less than 50m from the site. The Lagoon forms part of stormwater management for Wagga Wagga and suburbs to the south and flows to the north west where water is discharged to the Murrumbidgee River via underground pipe network. The River is approximately 1.3km east of the site.

The majority of stormwater will be collected on-site through roof and hard stand areas. The proposed re-development includes stormwater management.

4 SITE HISTORY

4.1 Contaminated Land Register Search

Page 6 of the Lotsearch report (Appendix D) shows the results of the search of the sites listed by the EPA under the *Contaminated Land Management Act 1997*. No records have been issued against the site. There are four nearby sites that have been notified to the EPA on the list of NSW Contaminated sites:

- Caltex service station (56-60 Docker Street – 414m to the south west of the site). Regulation under CLM Act is not required.
- BP Wagga Wagga (180 Edward Street – 545m to the south east of the site). Regulation under CLM Act is not required.
- Former Mobil Depot Wagga Wagga (97-99 Coleman Street – 754m to the south of the site). Regulation under CLM Act is not required.
- Coles Express Wagga Wagga (353-355 Edward Street – 748m to the west of the site). Regulation under CLM Act is not required.
- Caltex (Former Mobil) Service Station (106 Edward Street – 866m to the south east of the site). Regulation under CLM Act is not required.

The Kapooka Blamey Barracks is approximately 7.5km south west of the site. This Base forms part of the investigation and management area currently being undertaken by the Department of Defence for PFAS. The site is not within the investigation area due to it being outside the off site drainage area of the Base. There is a parcel of land 1926m to the west that forms part of the current PFAS investigation area. This land parcel appears to be part of the stormwater drainage that enters Flowerdale Lagoon.

4.2 POEO Act 1997

The Lotsearch report lists numerous businesses that have occupied the site. These include computer & office equipment, hairdressers, air conditioning sales & service and paint distributor. Former businesses within 150m of the site include signwriters, sheet metal workers, cement product manufacturers, motor oil depots, outboard motor distributors and caravan dealers.

Two delicensed activities that are still regulate by the EPA are within 1000m of the site;

- Wagga Wagga Base Hospital, for the generation or storage of hazardous, industrial or Group A Waste – 346m to the south of the site.
- Calvary Hospital, for the generation or storage of hazardous, industrial or Group A Waste – 655m to the south west of the site.

Five organisations were previously licensed within 1000m of the site. All licenses were surrendered in 2000. Three were for the application of pesticides and herbicides along waterways throughout NSW and two were for treated effluent irrigation to sporting fields.

4.3 Previous Investigation Reports

No previous reports investigating the contamination status of the site have been completed.

4.4 Historical Aerial Photograph Review

Aerial photographs obtained from the Lotsearch report were reviewed to provide information on past site uses. The results are summarised in Table 2 and historical aerial photographs are included in Appendix D.

Table 2: Review of Aerial Images

Year	Description
1944	The site is predominantly vacant. The large warehouse type building and residential dwelling immediately south is noted along the eastern boundary of the site. A drainage line appears to run through the north west corner. Residential dwellings can be seen in the surrounding area.
1953	Further development has been undertaken to the warehouse building with an additional structure immediately west and hardstand areas now evident. Shrubs and trees appear scattered across the remainder of the site. Further residential dwellings constructed in the surrounding area.
1966	Site is similar to previous. Warehouse shed type buildings can be seen to the immediate west.
1971	A large building now exists in the south west corner of the site.
1980	The site is unclear in this image.
1990	Three further buildings exist at the site. One to the south east and two to the north west. Concrete pavement covers majority of the site.
2007	Similar to today. The building to toward the centre along the western boundary can be seen. The residential dwelling has a defined yard.
2013	Similar to today

5 SITE INSPECTION AND DESCRIPTION

The site consists Lot 1 in Deposited Plan (DP) 1027240 and Lot 1 in DP 550746, County of Wynyard, Parish of South Wagga in the Local Government Area of Wagga Wagga (Figure 2). Access to the site is via 2 driveways from Forsyth Street, 2 driveways from Murray Street and entrance off Morgan Street. Three large warehouse type buildings exist along the northern boundary and extend approximately 66m, 84m & 86m south.

A painting supply store (Wattyl Paint Centre) and fruit, vegetable and pet supplies store (Wollundry Fruit Barn) occupies the western building. Built after 1970, this building is constructed from masonry, iron and fibre cement sheeting. A garage/carport structure extends along the western boundary from this building.

A café (Ray Ray's Diner), bakery (South Wagga Bakery), grocery store (All Spices Grocery) and butchery (South Wagga Butchery) occupy the middle building. This building is constructed from masonry, iron and cement sheeting. Garage and carport line the eastern side of this building. A triple interceptor and grease arrestor treatment systems were noted during the inspection which form part of the trade waste

licensing between the site and Wagga Wagga City Council. An electrical substation exists immediately north. This is constructed from brick with corrugated iron roof. From the aerial photographs (Appendix D) it appears the substation was built prior to 1990.

A chemist (The Bush Chemist), commercial offices (Red Cross Australia & Riverina Community College) and Murrumbidgee Local Health District operate a Covid testing clinic in the eastern building. This building is constructed from masonry, iron and cement sheeting. It has corrugated fibrous roofing which is possible Asbestos Containing Material (ACM).

Australia Post occupy a stand alone building on the western boundary toward the centre of the site. This is constructed from concrete panels and corrugated iron sheeting. The residential dwelling lies on the eastern boundary opposite the postal building. This is brick and corrugated iron roofed building. The dwelling is currently used by Northcott for disabilities services.

The two large buildings to the south of the site form medical and professional offices. The two storey building (Piercy Place) are occupied by medical surgeries/practices and accounting firms. It is constructed from concrete panelling and corrugated iron roofing. The single storey building is currently used for medical practitioners including dental surgery (Morgan Street Dental) and mental health clinic (Headspace). This is constructed from masonry and corrugated iron roofing.

The remainder of the site is completely sealed with concrete and asphalt. Minor areas of grass and tree plantings were noted at the time of the inspection associated with the footpath reserve adjacent to the site. Site photographs are attached in Appendix E.

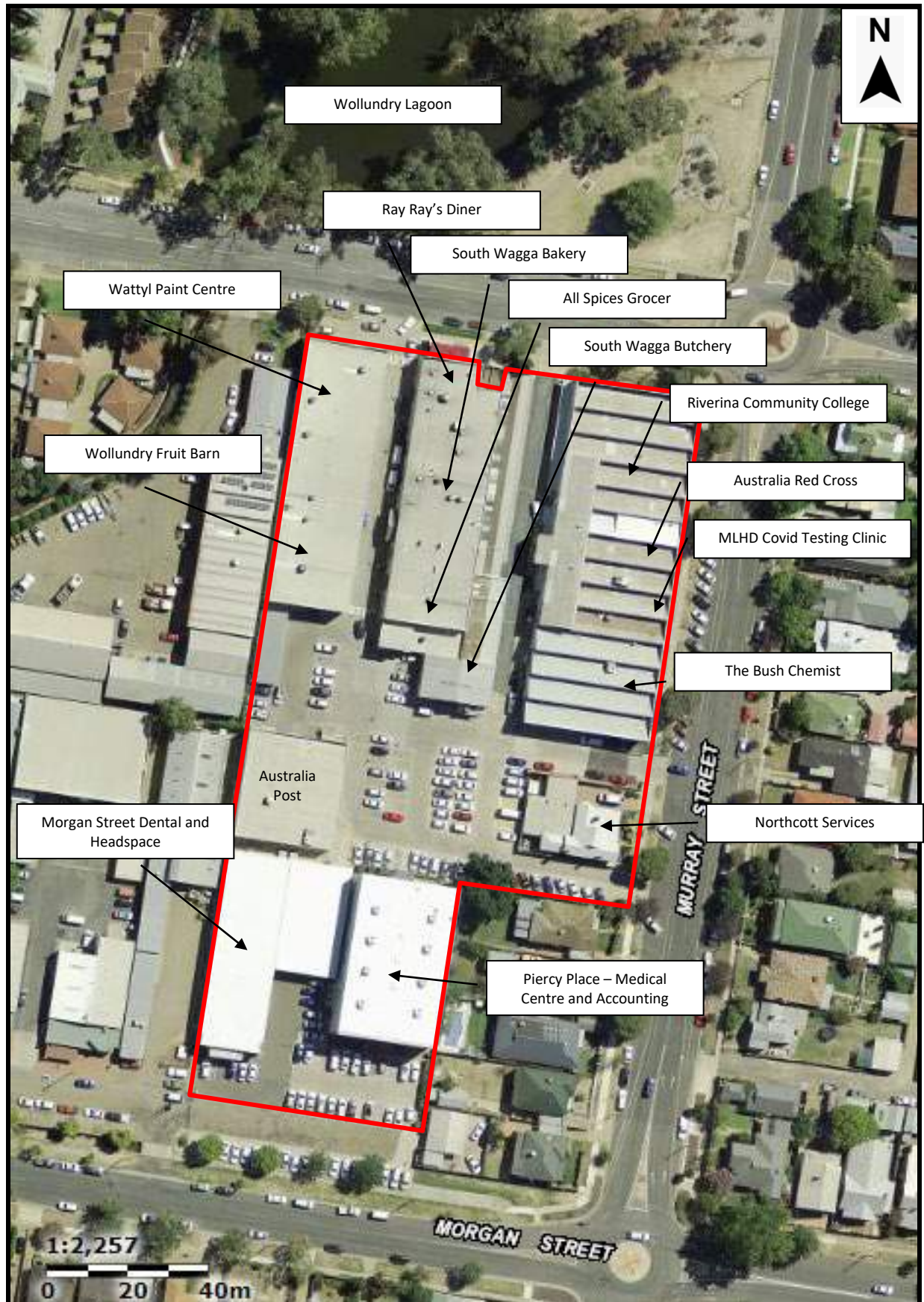


Figure 2: Aerial photograph displaying the site (© Department of Lands 2022).

5.1 Identified Areas of Environmental Concern

From the desktop review and site inspection there are areas of environmental concern at the site;

- The entire site may have been impacted from pesticide application from historical agricultural use.
- The large building to the north east of the site and residential dwelling were constructed prior to 1944. They may have been constructed with Asbestos Containing Material (ACM) and lead based paint.
- Fill materials from unknown sources.
- Commercial land use including potential machinery maintenance, washdown areas, paint storage and dumped rubbish.
- Electrical substation, accidental spills of transformer oils may have impacted the site.

5.2 Information Gaps

The site history was established using the various sources outlined above, however there is a large reliance on anecdotal evidence and aerial photographs that are not clear. A Conceptual Site Model (CSM) has been developed for the site and is outlined in the following section.

6 SITE CONCEPTUAL MODEL

6.1 Potential Sources of Contamination

Results obtained from the historical search indicate that the primary areas of concern are as follows,

- Potential persistent pesticide residue from predevelopment agricultural land use. Heavy metals (8 priority metals), organochlorine/organophosphate pesticides.
- ACM and lead paint that may be present on existing buildings. Asbestos (bonded, friable, and fibrous) and lead.
- Fill material from an unknown source. Heavy metals (8 priority metals), total recoverable hydrocarbons, solvents (benzene, toluene, ethylbenzene, xylene, naphthalene), phenols (speciated), polychlorinated biphenyls, polycyclic aromatic hydrocarbons, organochlorine pesticides, and ACM (bonded, friable, and fibrous).
- Commercial land use including potential machinery/air conditioning maintenance, washdown areas, paint storage and dumped rubbish. Heavy metals (16 priority metals), total recoverable hydrocarbons, solvents (benzene, toluene, ethylbenzene, xylene, naphthalene), phenols (speciated), polychlorinated biphenyls, polycyclic aromatic hydrocarbons, organochlorine pesticides, and asbestos (bonded, friable, and fibrous).
- Off site sources include the electrical substation and road network. Heavy metals (8 priority metals), total recoverable hydrocarbons, solvents (benzene, toluene, ethylbenzene, xylene, naphthalene), phenols (speciated), polychlorinated biphenyls, polycyclic aromatic hydrocarbons.

6.2 Contaminants of Concern

Table 3 below provides details of the potential contamination types that were identified for the site in the Preliminary Environmental Site Assessment. These are potential sources of contamination that may migrate to or be found on the site.

Contaminants of Potential Concern (CoCP) are summarised in Table 3

Table 3: CoPC summary

Potential Contamination Source	Contaminants of Concern	Comments
Soil Materials – Entire Site Previous Use as agriculture land	OCC, OPP and Metals	Contaminants from pesticide application.
Soil Material Southern Boundaries	TRH, BTEX, Heavy Metals, PAH, OCC, OCP, PCB	Contaminants from off site sources migrating to site – agricultural and road networks
Soil Material Northern Boundary	TRH, BTEX, Metals, PAH, PCB	Contaminants from electrical substation migrating to site
Building Materials	Asbestos, Lead	ACM and lead based paint may have been used in the construction of the buildings.

6.3 Potential Exposure Pathways

The potential human exposure pathways are as follows:

- Dermal contact, inhalation and ingestion of soil particles.
- Inhalation of asbestos fibres.
- Inhalation of vapours from volatile contaminants in soils.

These have the potential to affect short-term workers during the construction phase and future long-term users of the site following development.

6.4 Potential Transport Mechanisms

Based on the potential types of contaminants present at the site and the media in which they could be present the following transport mechanisms have been identified:

- Leaching of potential contaminants from soil into surface water and groundwater and transport around the site and off site.
- Volatilisation of contaminants and movement through vadose zones into indoor spaces.
- Ecological receptors (terrestrial organisms and plants) to contaminant exposure from unpaved areas and stormwater runoff entering water systems.

Water for Wagga Wagga is supplied from the Murrumbidgee River. The site groundwater is not currently used or planned to be used for any purposes in the future.

6.5 Risk Assessment

The site has a historical use as agriculture and various commercial uses since development commenced in the 1940's. Commercial properties exist to the immediate west. The large warehouse building in the north east and residential dwelling were constructed in the 1940's.

There is a potential for contamination from pesticide application, hazardous materials used in the construction of buildings, previous commercial use at the site including possible machinery/air conditioning maintenance, leakage of fuel/oils from vehicle storage and stormwater runoff entering the site from Forsyth Street (north), Murray Street (east) and Morgan Street (South). The risk of significant and widespread contamination at the site is considered low, however further investigative works including soil sampling and analysis is recommended.

7 CONCLUSIONS AND RECOMMENDATIONS

This Preliminary Environmental Site Assessment has met the objective of assessing the potential for contamination at the site. It is concluded that the risk of significant and widespread contamination is low, however is potentially present.

This Preliminary Environmental Site Assessment provides the framework for the development of Sampling and Analysis Quality Plan which can then be followed as part of Detailed Site Investigation works.

Based on the data and evidence collected during the Preliminary Environmental Site Assessment, the results of this investigation are as follows:

- The development site is approximately 1.7Ha and the proposal will consist of a six storey residential apartment building with likely inclusion of basement car parking (first stage) and a series of single storey commercial buildings (future stages).
- The site was originally developed (land cleared) for agricultural purposes.
- A large warehouse building and residential dwelling were constructed in the 1940's. Further development occurred in the 1970's to 1990's.
- Various commercial businesses have occupied the site including possible machinery/air conditioning maintenance.
- Contamination is potentially present at the site. Whilst the risk of significant and widespread contamination is considered low additional data is required to determine if the site is suitable for the intended land use.

8 ADDENDUM

LIMITS OF INVESTIGATION

ARTL Pty Ltd nor the Certified Site Contamination Specialist assume any responsibility for the misinterpretation of information supplied in this report.

The recommendations made in this report are based on the assumption that the test results are representative of the overall subsurface conditions. However, it should be noted that even under optimum circumstances, actual conditions in some parts of the site may differ from those said to exist, because no environmental consultant, no matter how qualified, and no subsurface exploration program, no matter how comprehensive, can reveal all that is hidden by earth, rock and time.

The client should also be aware that our recommendations refer only to our test site locations and the ground level at the time of testing.

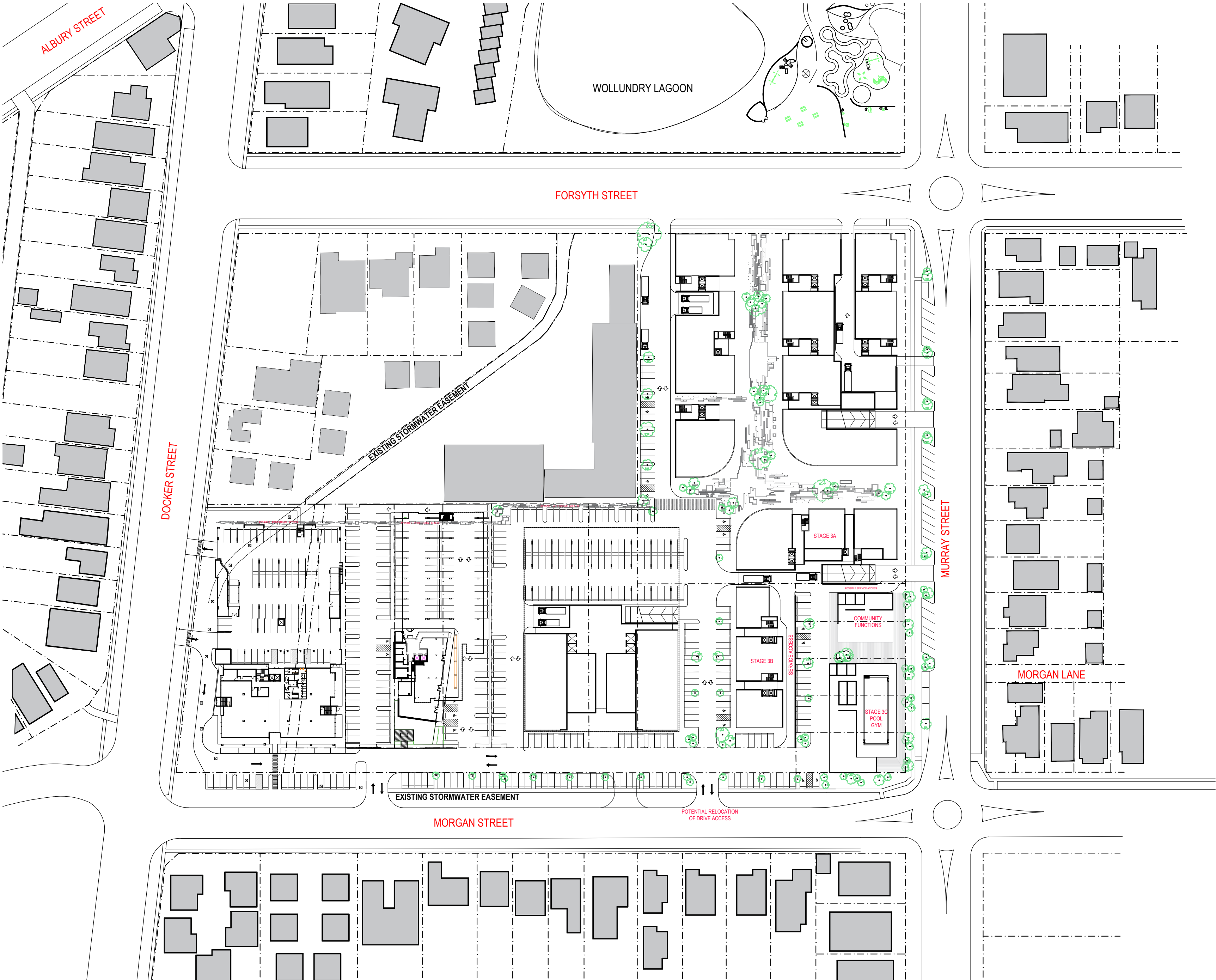
The recommendations in this report are based on the following:-

- a) The information gained from this investigation
- b) The results received from a NATA accredited environmental laboratory
- c) Historical information
- d) Information supplied by the client



APPENDIX A

Development Plan



architecture
interior design
project management

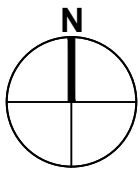
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ACN: 001 595 268 ABN: 44 001 595 268 reception@mdpa.com.au
Suite 302 69 Christie Street St. Leonards NSW 2065 | 02 99665566 | www.mdpa.com.au

PROJECT:

CIVITAS MASTER PLAN

Morgan, Murray & Forsyth St, Wagga

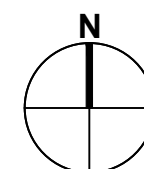
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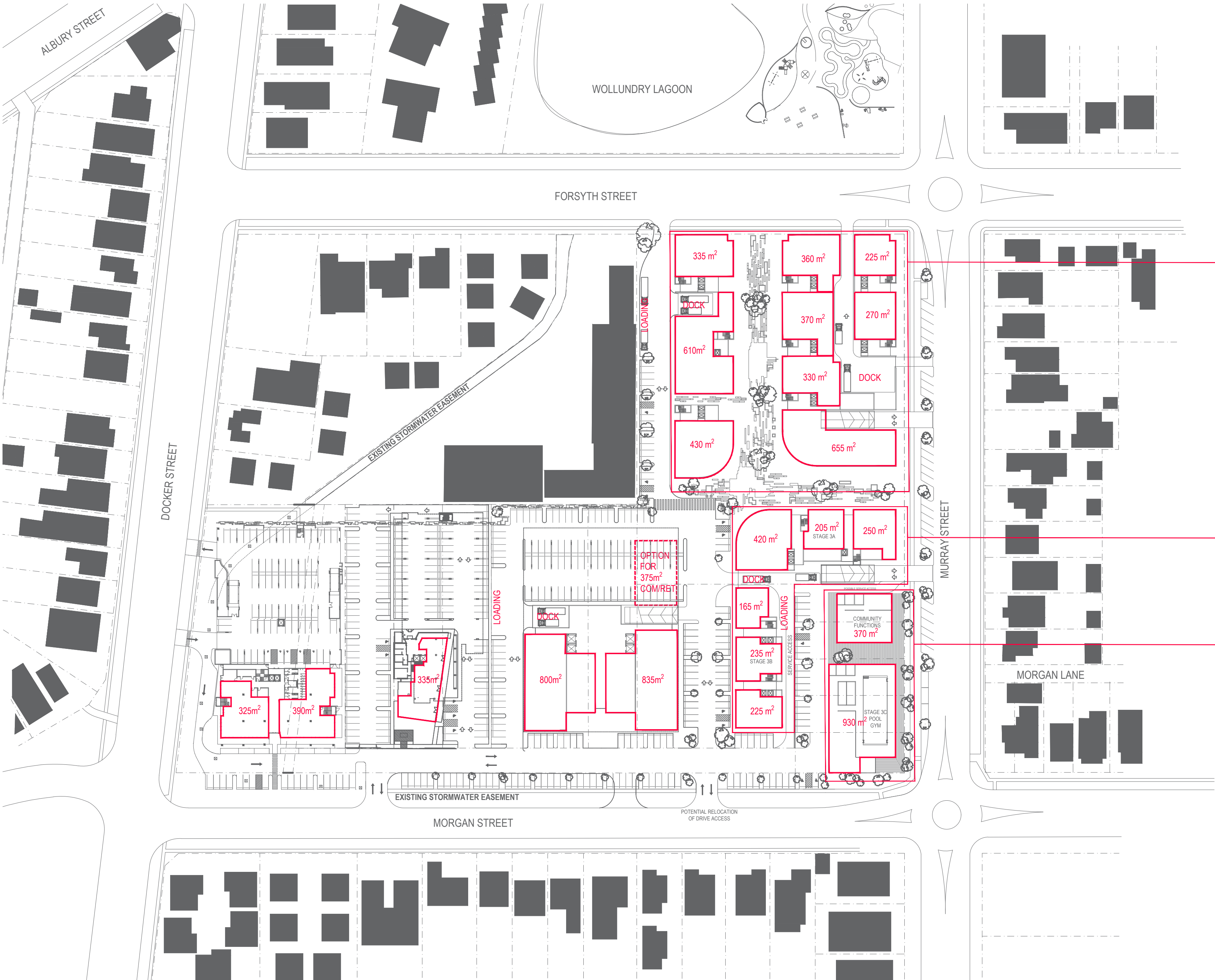
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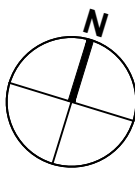
TOTAL RETAIL AREA = (approx.) 3585m²

TOTAL RETAIL AREA STAGE 3 = (approx.) 3000m²

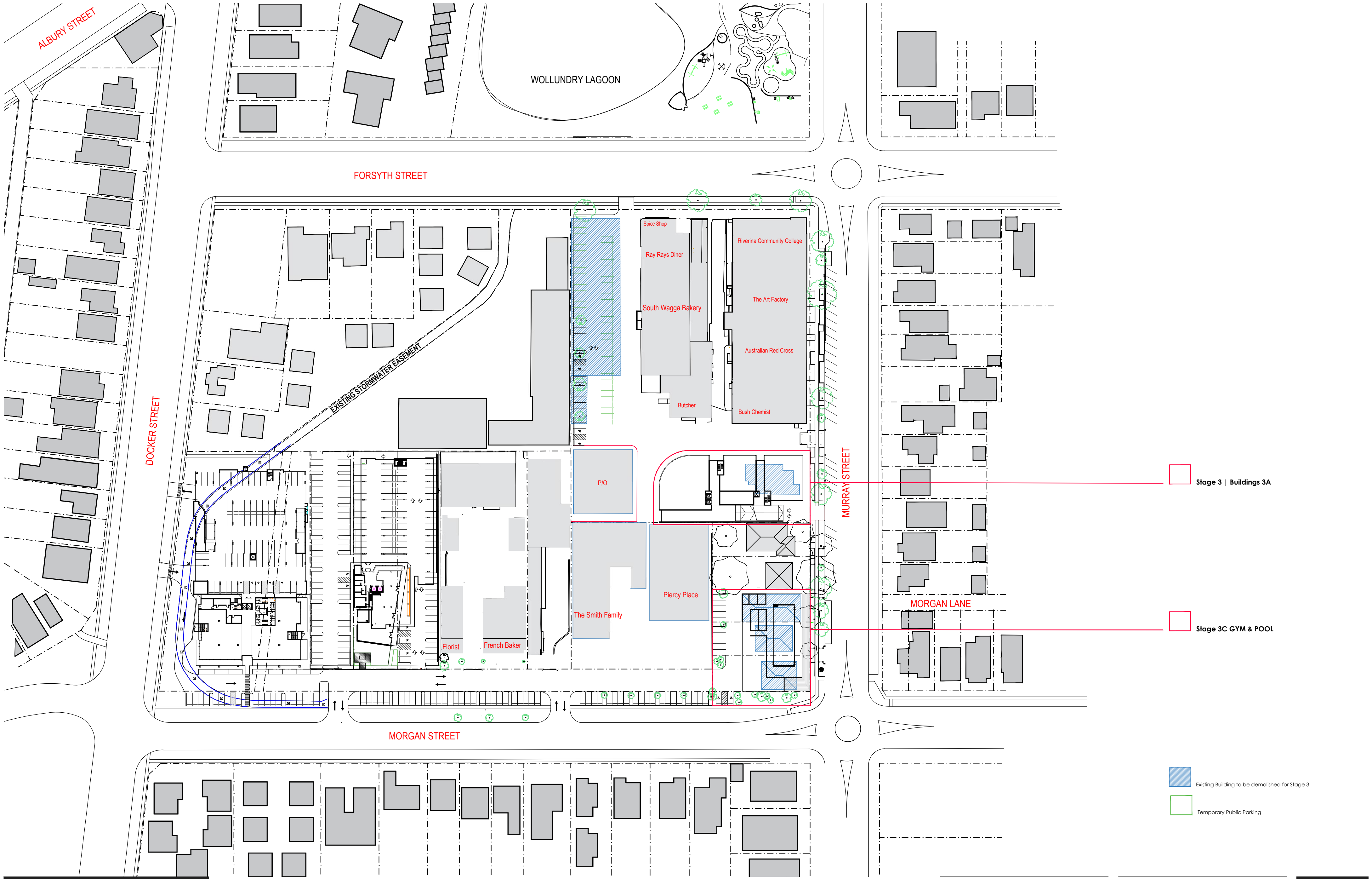
GYM, POOL & COMMUNITY = (approx.) 1300m²

PROJECT:
CIVITAS MASTER PLAN | GROUND FLOOR AREAS
Morgan, Murray & Forsyth St, Wagga

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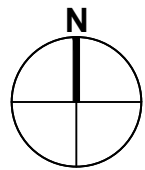


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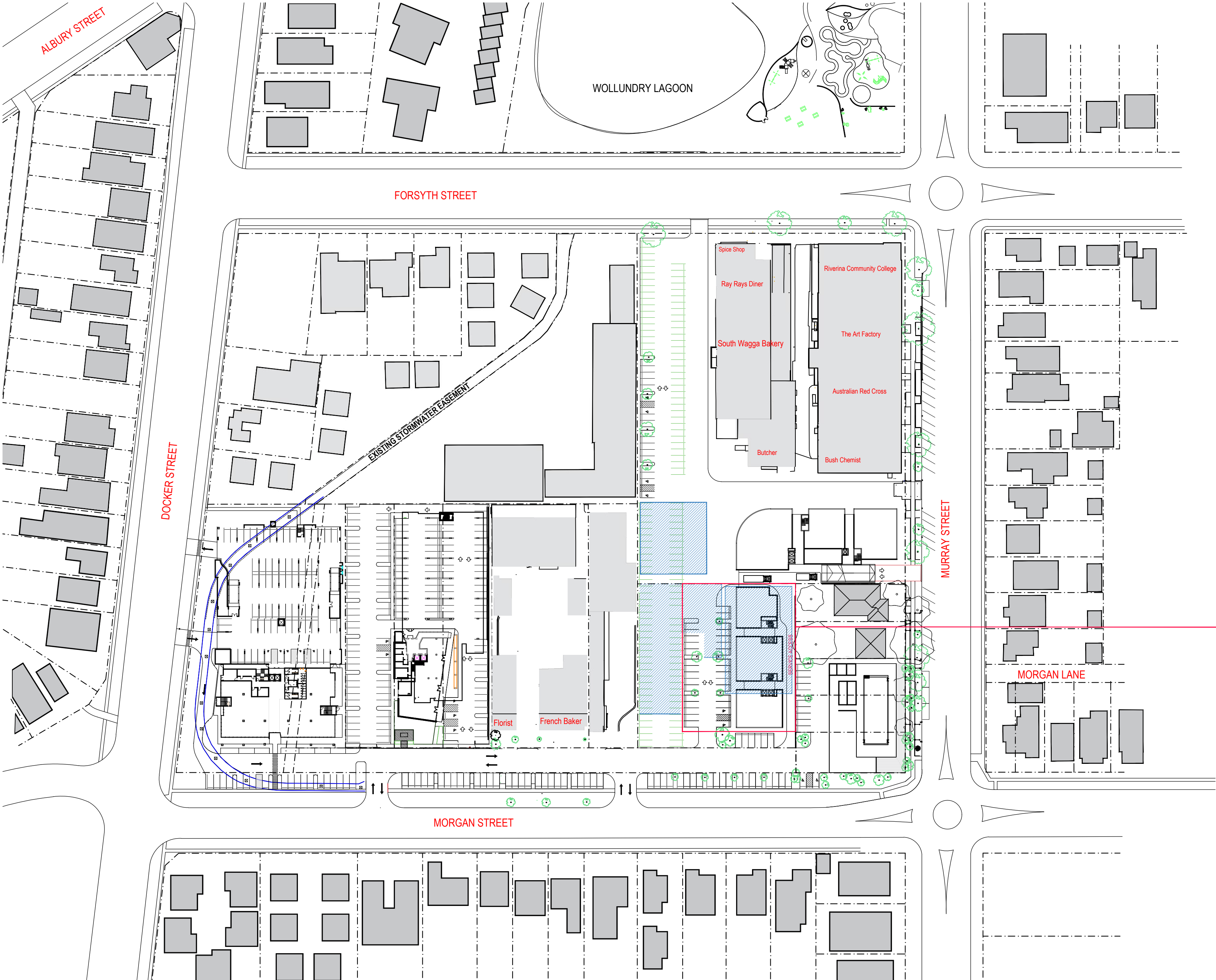
PROJECT: **CIVITAS MASTER PLAN | Stage 3A & 3C (GYM & POOL)**
Morgan, Murray & Forsyth St, Wagga

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Stage 3B

Existing Building to be demolished for Stage 3
Temporary Public Parking

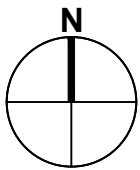
architecture
interior design
project management

NSW ARB REG ARCHITECT: G. OLLERTON #7621
ACN: 001 595 268 ABN: 44 001 595 268 reception@mdpa.com.au
Suite 302 69 Christie Street St. Leonards NSW 2065 | 02 99665566 | www.mdpa.com.au

PROJECT:
CIVITAS MASTER PLAN | Stage 3B
Morgan, Murray & Forsyth St, Wagga

DRAWING TITLE:

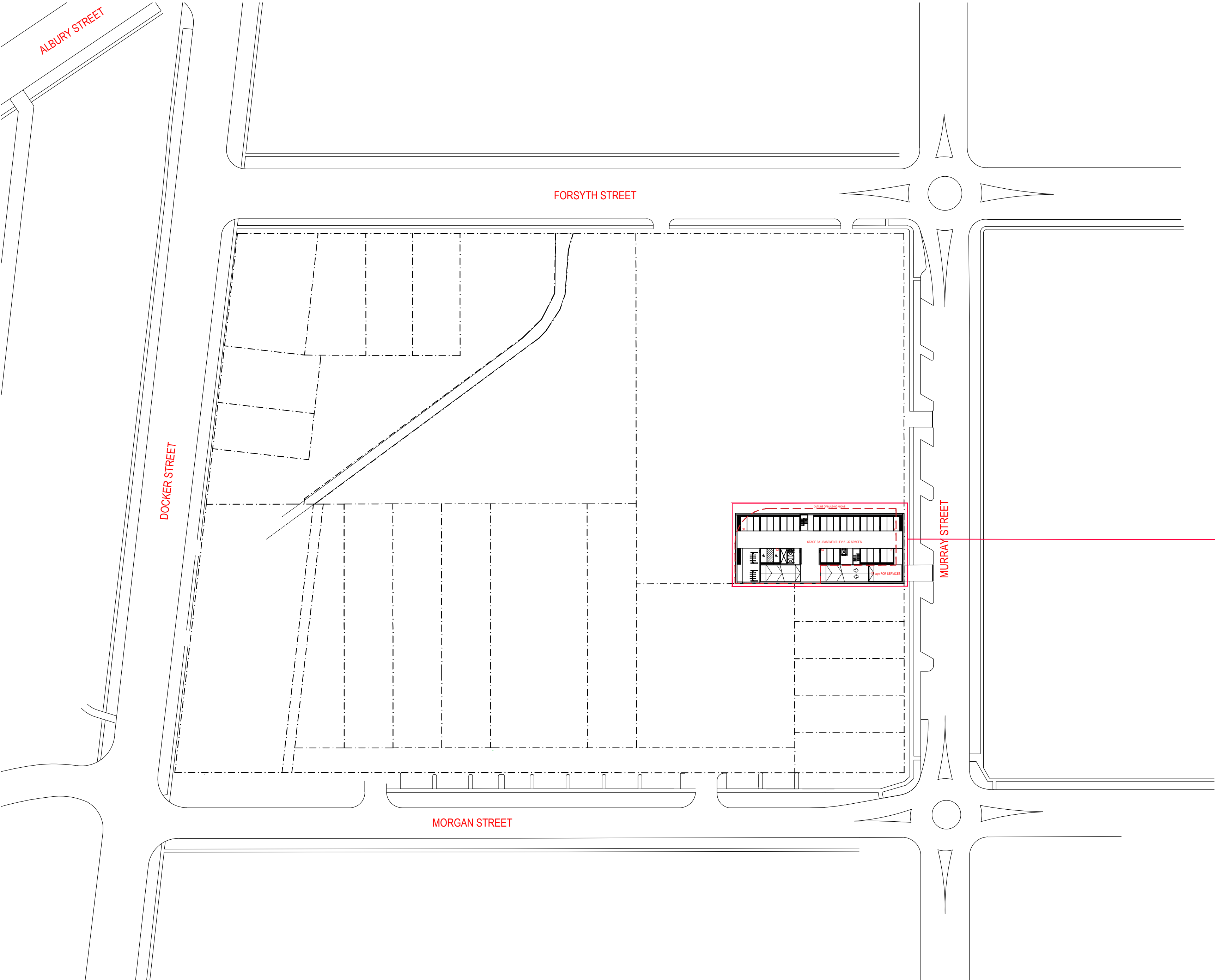
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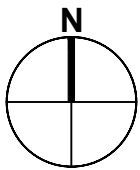
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PROJECT PRINCIPLE	:	GO
DATE	:	08.06.2022

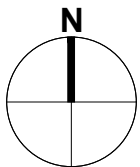
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ARCHITECTS
Since 1983



Stage 3 | Buildings 3A



REV	DATE	AMENDMENT	INITIALS	CHECK	PROJECT NO.	DRAWING NO.	REVISION
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SCALE					:	1:1000	
DRAWN					:	AS	
PROJECT PRINCIPLE					:	GO	
DATE					:	08 . 06 . 2022	



REV	DATE	AMENDMENT	INITIALS	CHECK
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DRAWN	:	AS		
PROJECT PRINCIPLE	:	GO		
DATE	:	08.06.2022		

PROJECT NO.	DRAWING NO.	REVISION
3228	SK001	A



Stage 3 | Buildings 3B

PROJECT:

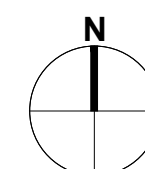
DRAWING TITLE:

CIVITAS MASTER PLAN | Stage 3B

BASEMENT LEVEL

Morgan, Murray & Forsyth St, Wagga

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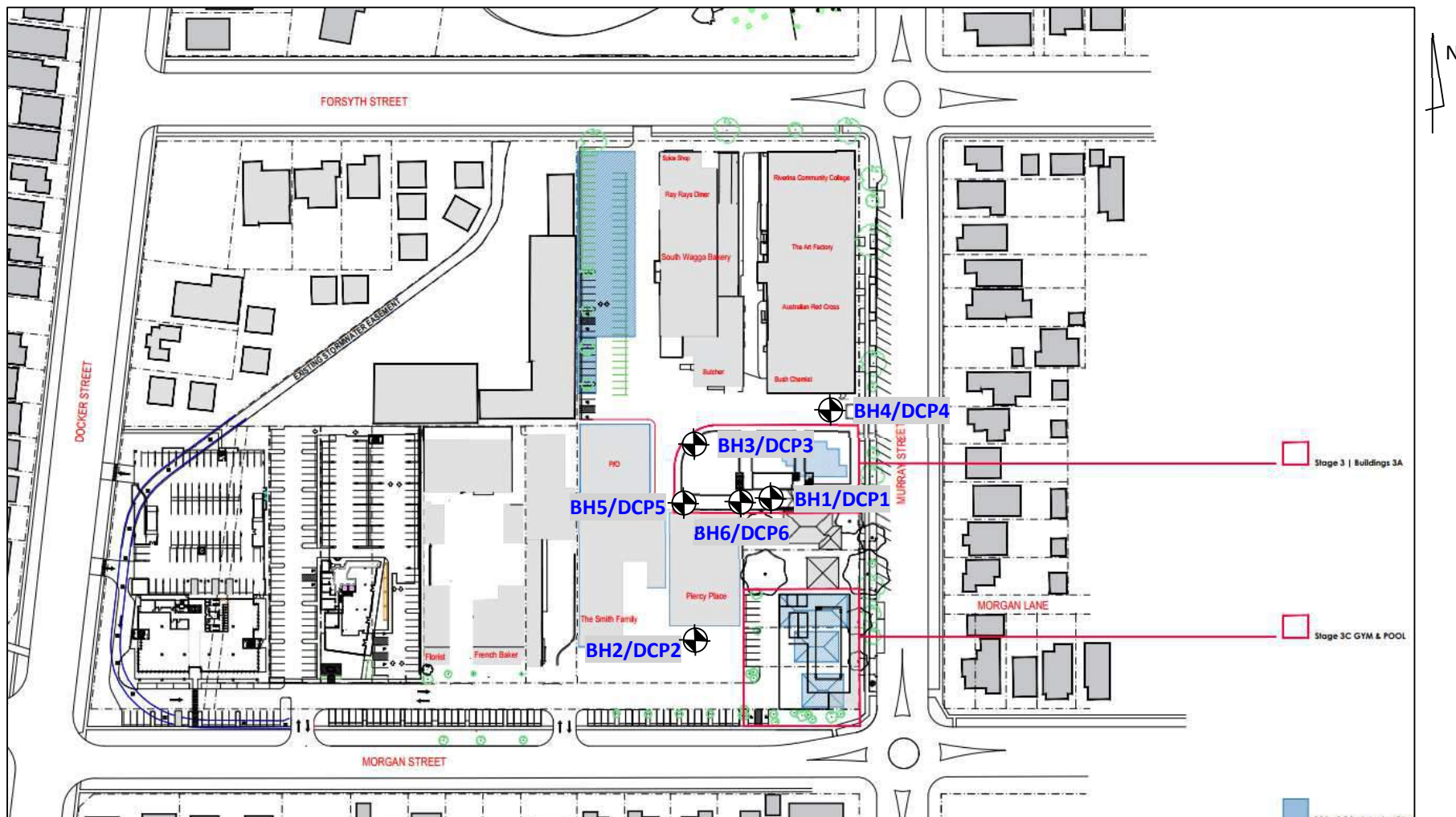
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					DRAWN	:	AS
					PROJECT PRINCIPLE	:	GO
					DATE	:	08.06.2022





APPENDIX B

Borehole Location Plan – From Geotechnical Investigation



Aitken Rowe Testing Laboratories Pty Ltd

Registration Number: S22-338

Client: DAMASA PTY LTD - WAGGA WAGGA, NSW
Project: GEOTECHNICAL INVESTIGATION
 PROPOSED MULTI-STORY COMMERCIAL DEVELOPMENT,
 CIVITAS - STAGE 3, MORGAN STREET, WAGGA WAGGA, NSW
 BOREHOLE & DCP TEST LOCATION PLAN



APPENDIX C

Draft Borehole Logs with Explanatory Note – From Geotechnical Investigation

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 1 Sheet No.: 1 of 3		
Ground Level: Existing Method: Auger Drilling with TC Bit						Date: 19-20/07/2022 GPS N: 6114252 E: 0532825		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
	Concrete (140mm)							
CI	FILL: Sandy Silty CLAY; medium plasticity, fine to coarse sand, trace gravel, dark grey	0.5	MC>PL	S-F	D	1A		FILL: Appears moderately compacted 'Uncontrolled'
					F	D		
CI	Silty CLAY; medium plasticity, trace sand, grey	1.0		St.			1.5	NATURAL
					D			
CL-CI	Sandy CLAY; low to medium plasticity, fine to coarse sand, trace gravel, grey	2.0	MC<PL		D	1D	SPT 3, 4, 8 N = 12	
							1.95	
CI-CH	CLAY; medium to high plasticity, with fine to coarse sand, grey yellow brown	2.5	MC>PL		D	1E		
							3.0	
CH	CLAY; high plasticity, trace sand, trace gravel, grey brown	3.5			D	1F	SPT 3, 4, 5 N = 9	
							3.45	
CH	CLAY; high plasticity, trace sand, yellow grey brown	4.5			D	1G		
							4.5	
CH	CLAY; high plasticity, trace sand, orange grey brown	5.0			D	1H	SPT 2, 4, 5 N = 9	
							4.95	
		5.5			D	1I		
		6.0						
Registration No.: S22-338 Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW Client: Damasa Pty Ltd - Wagga Wagga, NSW							Logged By: DRR/JB	
							Scale: As shown	
							Seepage @ 10.5m to 16.0m (EOBH)	

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 1 Sheet No.: 2 of 3		
Ground Level: Existing Method: Auger Drilling with TC Bit						Date: 19-20/07/2022 GPS N: 6114252 E: 0532825		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
CH	CLAY; high plasticity, trace sand, yellow grey brown		MC>PL	St.	D	1J	SPT 3, 5, 6 N = 11	
							6.45	
					D	1K		
							7.5	
					D	1L	SPT 4, 7, 8 N = 15	
							8.0	
					D	1M		
							9.0	
CL-CI	Sandy Silty CLAY; low to medium plasticity, fine to coarse sand, pale grey				D	1N	SPT 4, 5, 6 N = 11	
							9.5	
CL	Sandy Silty CLAY; low plasticity, fine to coarse sand, orange brown				D	1O		

Registration No.: S22-338 Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW Client: Damasa Pty Ltd - Wagga Wagga, NSW	Logged By: DRR/JB Scale: As shown Seepage @ 10.5m to 16.0m (EOBH)
--	---

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 1 Sheet No.: 3 of 3		
Ground Level: Existing Method: Auger Drilling with TC Bit						Date: 19-20/07/2022 GPS N: 6114252 E: 0532825		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
CL	Sandy Silty CLAY; low plasticity, fine to coarse sand, orange brown		MC>PL	St.			SPT 2, 20, 14 N = 34	Due to the potential side collapse within the gravel formation, solid cone was used instead of SPT barrel. Blow counts are measured at every 150mm thick formation interval. Hole collapsing (CPT attempted with refusal on gravel)
SM	Silty SAND; fine to coarse grained, with fine to medium gravel, fines of low plasticity, brown		W	D	D	1P	12.5	
GP-GW	Sandy GRAVEL; fine to coarse grained, fine to coarse sand, with silt fines of low plasticity, grey	12.5	VD				13.5	
		13.5	CPT 37 26 28 37 37					
		14.25						
		14.5						
		15.0						
		15.5						
		16.0						
	End of Borehole (BH1) @ 16.0m							
		16.5						
		17.0						
		17.5						
		18.0						

Registration No.: S22-338

Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW

Client: Damasa Pty Ltd - Wagga Wagga, NSW

Logged By: DRR/JB

Scale: As shown

Seepage @ 10.5m to 16.0m (EOBH)

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 2 Sheet No.: 1 of 2		
Ground Level: Existing Method: Auger Drilling with TC Bit						Date: 25/07/2022 GPS N: 6114198 E: 0532774		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
	Concrete (150mm)							
CL-CI	FILL: Sandy Silty CLAY; low to medium plasticity, fine to coarse sand, trace gravel, orange brown	0.5	MC>PL	F	D	2A		FILL: Appears moderately compacted 'Uncontrolled'
				St.-VSt.	D	2B		
CI	Silty CLAY; medium plasticity, trace sand, dark grey	1.0		VSt.	D	2C		NATURAL
		1.5					1.5	
		2.0		F	D	2D	SPT 1, 2, 3 N = 5	
							1.95	
CH	Silty CLAY; medium plasticity, trace sand, grey yellow brown	2.5			D	2E		
		3.0					3.0	
CH	CLAY; high plasticity, trace sand, trace gravel, orange grey brown	3.5			D	2F	SPT 2, 2, 4 N = 6	
		4.0					3.45	
		4.5			D	2G		
CI-CH	CLAY; medium to high plasticity, trace sand, orange brown	5.0			D	2H		
							5.0	
CL-CI	Sandy Silty CLAY; low to medium plasticity, fine to coarse sand, trace gravel, orange grey brown	5.5	MC≤PL	St.	D	2I	SPT 3, 5, 7 N = 12	
		6.0					5.45	
Registration No.: S22-338 Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW Client: Damasa Pty Ltd - Wagga Wagga, NSW							Logged By: DRR/JB	
							Scale: As shown	
							Seepage @ 9.0m to 12.0m (EOBH)	

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 2 Sheet No.: 2 of 2		
Ground Level: Existing Method: Auger Drilling with TC Bit						Date: 25/07/2022 GPS N: 6114198 E: 0532774		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
CL-CI	Sandy Silty CLAY; low to medium plasticity, fine to coarse sand, trace gravel, orange grey brown	6.5	MC _≤ PL	St.	D	2J	7.0	Seepage @ 9.0m to 12.0m (EOBH) Borehole collapsing @ 10.0m
SM	Silty SAND; fine to coarse grained, trace gravel, fines of low plasticity, yellow orange brown	7.0	M	MD	D	2K	SPT 6, 6, 7 N = 13	
SC	Clayey SAND; fine to coarse grained, trace gravel, fines of low plasticity, orange brown	7.5					7.45	
SC	Clayey SAND; fine to coarse grained, trace gravel, fines of low plasticity, orange brown	8.0			D	2L	8.5	
SC	Clayey SAND; fine to coarse grained, with fine to medium gravel, fines of low plasticity, yellow brown	8.5			D	2M	SPT 6, 10, 13 N = 23	
SM	Silty SAND; fine to coarse grained, with fine to medium gravel, fines of low plasticity, yellow grey brown	9.0	W				8.95	
		9.5			D	2N	10.0	
SM	Silty SAND; fine to coarse grained, trace gravel, fines of low plasticity, yellow grey brown	10.0			D	2O	SPT 7, 7, 10 N = 17	
		10.5					10.45	
		11.0						
		11.5						
		12.0						
End of Borehole (BH2) @ 12.0m Registration No.: S22-338 Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW Client: Damasa Pty Ltd - Wagga Wagga, NSW								Logged By: DRR/JB Scale: As shown Seepage @ 9.0m to 12.0m (EOBH)

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 3		
						Sheet No.: 1 of 3		
Ground Level: Existing						Date: 26/07/2022		
Method: Auger Drilling with TC Bit						GPS N: 6114281		
						E: 0532791		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
	Concrete (150mm)							
SM	FILL: Silty SAND; fine to coarse grained, trace gravel, fines of low plasticity, yellow brown		M	MD	D	3A		FILL: Appears moderately compacted 'Uncontrolled'
CI	Silty CLAY; medium plasticity, trace sand, dark grey	0.5	MC>PL	F-St.	D	3B		NATURAL
CI	Silty CLAY; medium plasticity, trace sand, trace gravel, pale grey	1.0		VSt.	D	3C		
CL-CI	Sandy Silty CLAY; low to medium plasticity, fine to coarse sand, trace gravel, orange brown	1.5	MC<PL		D	3D	1.5	
SM	Silty SAND; fine to coarse grained, trace gravel, fines of low plasticity, yellow orange brown	2.0	M	L	D	3E	SPT 4, 4, 2 N = 6	
							1.95	
SC	Clayey SAND; fine to coarse grained, trace gravel, fines of low plasticity, yellow grey brown	2.5			D	3F		
		3.0					3.0	
CI	CLAY; medium plasticity, trace sand, trace gravel, grey brown	3.5	MC>PL	St.	D	3G	SPT 3, 5, 7 N = 12	
							3.45	
CI-CH	Sandy CLAY; medium to high plasticity, fine to coarse sand, trace gravel, grey yellow brown	4.0			D	3H		
		4.5					4.5	
CH	Silty CLAY; high plasticity, trace sand, orange grey brown	5.0			D	3I	SPT 2, 5, 5 N = 10	
							4.95	
CH	Silty CLAY; high plasticity, trace sand, yellow grey brown	5.5			D	3J		
		6.0						
Registration No.: S22-338							Logged By: DRR/JB	
Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW							Scale: As shown	
Client: Damasa Pty Ltd - Wagga Wagga, NSW							Seepage @ 9.0m to 9.5m & 10.5m to 13.2m (EOBH)	

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 3		
						Sheet No.: 2 of 3		
Ground Level: Existing						Date: 26/07/2022		
Method: Auger Drilling with TC Bit						GPS N: 6114281		
						E: 0532791		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
CH	Silty CLAY; high plasticity, trace sand, yellow grey brown		MC>PL	St.	D	3K	SPT 3, 6, 7 N = 13	
							7.45	
		6.5						
		7.0						
		7.5						
		8.0						
		8.5						
		9.0						
		9.5						
		10.0						
10.5								
11.0								
11.5								
12.0								
Registration No.: S22-338								Logged By: DRR/JB
Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW								Scale: As shown
Client: Damasa Pty Ltd - Wagga Wagga, NSW								Seepage @ 9.0m to 9.5m & 10.5m to 13.2m (EOBH)

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 3		
						Sheet No.: 3 of 3		
Ground Level: Existing						Date: 26/07/2022		
Method: Auger Drilling with TC Bit						GPS N: 6114281		
						E: 0532791		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
CH	Silty CLAY; high plasticity, trace sand, grey brown		MC>PL	St.	D	3N		Due to the potential side collapse within the gravel formation, solid cone was used instead of SPT barrel. Blow counts are measured at every 150mm thick formation interval.
	COBBLES; with fine to coarse sand, grey brown		W	VD	D	30	12.3	
		12.5					CPT	
							37	
							37	
		13.0					38	
							39	
							40	
							40	
							42	
							46	
							46	
	End of Borehole (BH3) @ 13.2m							
		13.5						
		14.0						
		14.5						
		15.0						
		15.5						
		16.0						
		16.5						
		17.0						
		17.5						
		18.0						
Registration No.: S22-338 Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW Client: Damasa Pty Ltd - Wagga Wagga, NSW							Logged By: DRR/JB	
							Scale: As shown	
							Seepage @ 9.0m to 9.5m & 10.5m to 13.2m (EOBH)	

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 4 Sheet No.: 1 of 2		
Ground Level: Existing Method: Auger Drilling with TC Bit						Date: 31/08/2022 GPS N: 6114280 E: 0532846		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
	Concrete (170mm)							
CL-CI	FILL: Silty CLAY; low to medium plasticity, trace sand, trace gravel, grey brown	0.5	MC>PL	S-F	D	4A		FILL: Appears poorly compacted 'Uncontrolled'
CI-CH	CLAY; medium to high plasticity, trace sand, trace gravel, grey brown	1.0		St.	D	4B		NATURAL
CI-CH	Silty CLAY; medium to high plasticity, trace sand, grey orange brown	1.5					1.5	
		2.0			D	4C	SPT 2, 4, 6 N = 10	
SM	Silty SAND; fine to coarse grained, trace gravel, fines of low plasticity, grey brown	2.5	M-W	MD			1.95	Seepage @ 2.1m to 3.1m
		3.0			D	4D		
CI-CH	Sandy CLAY; medium to high plasticity, fine to coarse sand, trace gravel, grey brown	3.5	MC>PL	St.	D	4E	SPT 7, 5, 5 N = 10	End of Seepage
		4.0					3.45	
CH	CLAY; high plasticity, with fine to coarse sand, trace gravel, grey brown	4.5			D	4F		
		5.0					4.5	
CH	CLAY; high plasticity, trace sand, grey orange brown	5.5			D	4G	SPT 1, 4, 4 N = 8	
		6.0					4.95	
Registration No.: S22-338							Logged By: DRR/JB	
Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW							Scale: As shown	
Client: Damasa Pty Ltd - Wagga Wagga, NSW							Seepage @ 2.1m to 3.1m & 11.1m to 12.0m (EOBH)	

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 4		
						Sheet No.: 2 of 2		
Ground Level: Existing						Date: 31/08/2022		
Method: Auger Drilling with TC Bit						GPS N: 6114280		
						E: 0532846		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
CH	CLAY; high plasticity, trace sand, grey orange brown	6.5	MC>PL	St.	D	4H	SPT 3, 4, 5 N = 9	
						6.45		
						7.0		
CH	CLAY; high plasticity, trace sand, trace gravel, grey orange brown	7.5					7.5	
		8.0	D	4I	SPT 3, 4, 8 N = 12			
					7.95			
					8.5			
					9.0			
			D	4J	SPT 3, 3, 5 N = 8			
					9.45			
					10.0			
					10.5			
			D	4K	SPT 5, 5, 5 N = 10			
SM	Silty SAND; fine to coarse grained, with fine to medium gravel, fines of low plasticity, grey brown	11.0	W	D			10.95	Seepage @ 11.1m to 12.0m (EOBH)
		11.5						
		12.0						
End of Borehole (BH4) @ 12.0m								
Registration No.: S22-338						Logged By: DRR/JB		
Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW						Scale: As shown		
Client: Damasa Pty Ltd - Wagga Wagga, NSW						Seepage @ 2.1m to 3.1m & 11.1m to 12.0m (EOBH)		

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 5 Sheet No.: 1 of 2		
Ground Level: Existing Method: Auger Drilling with TC Bit						Date: 1/09/2022 GPS N: 6114258 E: 0532785		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/ Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
	Concrete (130mm)							
CL-CI	FILL: Sandy Silty CLAY; low to medium plasticity, fine to coarse sand, with fine to medium gravel, grey	0.5	MC>PL	F	D	5A		FILL: Appears poorly compacted 'Uncontrolled'
CI	Silty CLAY; medium plasticity, trace sand, yellow brown			St.	D	5B		NATURAL
CL-CI	Sandy Silty CLAY; low to medium plasticity, fine to coarse sand, trace gravel, orange brown	1.0			D	5C		
		1.5					1.5	
SM	Silty SAND; fine to coarse grained, trace gravel, fines of low plasticity, yellow brown	2.0	M-W	MD	D	5D	SPT 4, 5, 6 N = 11	Slight Seepage @ 1.5m to 2.2m
							1.95	
CL-CI	Sandy Silty CLAY; low to medium plasticity, fine to coarse sand, trace gravel, yellow brown	2.5	MC>PL	St.				End of Seepage
		3.0			D	5E		
CH	CLAY; high plasticity, trace sand, grey brown	3.5			D	5F	SPT 2, 4, 4 N = 8	
							3.45	
CL-CI	CLAY; low to medium plasticity, with fine to coarse sand, trace gravel, grey orange brown	4.0			D	5G		
		4.5					4.5	
CL-CI	CLAY; low to medium plasticity, with fine to coarse sand, trace gravel, orange brown	5.0			D	5H	SPT 3, 5, 7 N = 12	
							4.95	
CH	CLAY; high plasticity, trace sand, trace gravel, grey brown	5.5			D	5I		
		6.0						
Registration No.: S22-338 Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW Client: Damasa Pty Ltd - Wagga Wagga, NSW								Logged By: DRR/JB
								Scale: As shown
								Slight Seepage @ 1.5m to 2.2m

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 5 Sheet No.: 2 of 2		
Ground Level: Existing Method: Auger Drilling with TC Bit						Date: 1/09/2022 GPS N: 6114258 E: 0532785		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
CH	CLAY; high plasticity, trace sand, trace gravel, grey brown		MC>PL	St.	D	5J	SPT 2, 4, 6 N = 10	
						6.45		
		D			5K	7.55		
		D			5L	SPT 5, 6, 8 N = 14		
	End of Borehole (BH5) @ 8.0m	8.0						
		8.5						
		9.0						
		9.5						
		10.0						
		10.5						
		11.0						
		11.5						
		12.0						
Registration No.: S22-338 Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW Client: Damasa Pty Ltd - Wagga Wagga, NSW							Logged By: DRR/JB	
							Scale: As shown	
							Slight Seepage @ 1.4m to 2.1m	

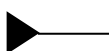
AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 6 Sheet No.: 1 of 3		
Ground Level: Existing Method: Auger Drilling with TC Bit						Date: 3/09/2022 GPS N: 6114256 E: 0532801		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
	Concrete (150mm)							
SM	FILL: SAND; fine to coarse grained, trace gravel, fines of low plasticity, yellow brown		M					
CL-CI	FILL: Sandy Silty CLAY; low to medium plasticity, fine to coarse sand, trace gravel, grey		MC>PL	S				FILL: Appears poorly compacted 'Uncontrolled'
CI-CH	Silty CLAY; medium to high plasticity, trace sand, grey	0.5		F	D	6A		NATURAL
		1.0		St.	D	6B		
CI-CH	Silty CLAY; medium to high plasticity, trace sand, trace gravel, grey yellow brown	1.5			D	6C	1.5	
CL-CI	Sandy Silty CLAY; low to medium plasticity, fine to coarse sand, trace gravel, mottled grey yellow orange brown	2.0			D	6D	SPT 2, 5, 7 N = 12	Seepage @ 1.65m to 2.2m
		2.5					1.95	End of Seepage
SM	Silty SAND; fine to coarse grained, trace gravel, fines of low plasticity, grey brown	3.0	W	MD				Heavy Seepage @ 2.8m to 3.2m
CH	CLAY; high plasticity, trace sand, trace gravel, grey brown	3.5	MC>PL	St.				End of Seepage
		4.0			D	6F	SPT 2, 4, 5 N = 9	
		4.5					3.95	
CI-CH	Sandy CLAY; medium to high plasticity, fine to coarse sand, trace gravel, orange brown	5.0			D	6G		
		5.5					5.5	
CH	CLAY; high plasticity, trace sand, grey yellow brown	6.0			D	6H	SPT 3, 4, 6 N = 10	
Registration No.: S22-338 Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW Client: Damasa Pty Ltd - Wagga Wagga, NSW								Logged By: DRR/JB Scale: As shown Seepage @ 1.65m to 2.2m & 2.8m to 3.2m & 12.3m to 14.2m (EOBH)

[illegible]

AITKEN ROWE TESTING LABORATORIES PTY LTD						Borehole No.: 6 Sheet No.: 3 of 3		
Ground Level: Existing Method: Auger Drilling with TC Bit						Date: 3/09/2022 GPS N: 6114256 E: 0532801		
USCS Symbol	Description	Depth (m)	Moisture Condition	Consistency/Rel. Density	Sample		Field Test	Remarks & Field Records
					Type	No.		
CH	CLAY; high plasticity, trace sand, grey brown		MC>PL	St.	D	6L	SPT 2, 5, 15 N = 20	Heavy Seepage @ 12.3m to 14.2
SM	Silty SAND; fine to coarse grained, with fine to coarse gravel, fines of low plasticity,	12.5	W	D			12.45	
		13.0					13.0	
GP-GW	Sandy GRAVEL; fine to coarse grained, fine to coarse sand, with silt fines of low plasticity, grey	13.5		VD			CPT 30 37 30 29 31 34 37 36	Due to the potential side collapse within the gravel formation, solid cone was used instead of SPT barrel. Blow counts are measured at every 150mm thick formation interval.
		14.0						
	End of Borehole (BH6) @ 14.2m	14.5						
		15.0						
		15.5						
		16.0						
		16.5						
		17.0						
		17.5						
		18.0						
Registration No.: S22-338							Logged By: DRR/JB	
Location: Geotechnical Investigation - Proposed Multi-Story Commercial Development, Civitas - Stage 3, Morgan Street, Wagga Wagga, NSW							Scale: As shown	
Client: Damasa Pty Ltd - Wagga Wagga, NSW							Seepage @ 1.65m to 2.2m & 2.8m to 3.2m & 12.3m to 14.2m (EOBH)	



AITKEN ROWE TESTING LABORATORIES PTY LTD
LOG SYMBOLS

LOG COLUMN	SYMBOLS		DEFINITION		
Groundwater Record			Standing water level. Time delay following completion of drilling may be shown.		
			Groundwater seepage into borehole or excavation noted during drilling or excavation.		
Samples	D		Small disturbed bag sample taken between the depths indicated by lines.		
	B		Bulk disturbed sample taken between the depths indicated by lines.		
	U		Undisturbed 50mm diameter tube sample taken between the depths indicated by lines		
Field Tests	N=17 4, 7, 10		Standard Penetration Test (S.P.T.) performed between depths indicated by lines. Individual figures show blows per 150mm penetration driven by SPT hammer.		
	N _c	5	Dynamic Cone Penetration Test performed between depths indicated by lines. Individual figures show blows per 100mm penetration for 60 degree solid cone driven by 9 kg hammer.		
		7			
		3			
Moisture Condition (Clay or Silt based)	MC>PL		Moisture content estimated to be greater than plastic limit.		
	MC=PL		Moisture content estimated to be approx. equal to plastic limit.		
	MC<PL		Moisture content estimated to be less than plastic limit.		
Moisture Condition (Gravel or Sand based)	D		DRY – runs freely through fingers.		
	M		MOIST – does not run freely but no free water visible on soil surface.		
	W		WET – free water visible on soil surface.		
Consistency (Clay or Silt based)	VS		VERY SOFT – unconfined compressive strength less than 25kPa.		
	S		SOFT – unconfined compressive strength 25-50 kPa.		
	F		FIRM – unconfined compressive strength 50-100kPa.		
	St.		STIFF – unconfined compressive strength 100-200kPa.		
	VSt.		VERY STIFF – unconfined compressive strength 200-400kPa.		
	H		HARD – unconfined compressive strength greater than 400kPa.		
Relative Density (Gravel or Sand based)		Description	Density Index Range % S.P.T.		'N' Value Range Blows/300mm
	VL	VERY LOOSE	<15		0-5
	L	LOOSE	15-35		6-10
	MD	MEDIUM DENSE	35-65		11-30
	D	DENSE	65-85		31-60
	VD	VERY DENSE	>85		>60
Hand Penetrometer Readings	300 250 280		Numbers indicate individual test results in kPa on representative undisturbed material unless noted otherwise.		
Laboratory Test	L.S. %		Linear Shrinkage (As per TfNSW Method T113)		
	M.C. %		Field Moisture Content (As per Australian Standard AS1289.2.1.1 or TfNSW Method T120)		
	I _{ss}		Shrink-Swell Index (As per Australian Standard AS1289.7.1.1)		
Remarks	'V' bit		Hardened steel 'V' shaped bit.		
	'TC' bit		Tungsten Carbide wing bit.		
	T ⁶⁰		Penetration of auger string in mm under static load of rig rear axle without rotation of augers.		



APPENDIX D

Lotsearch Report



LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 30 Sep 2022 13:01:40

Reference: LS036665 EP

Address: 185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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

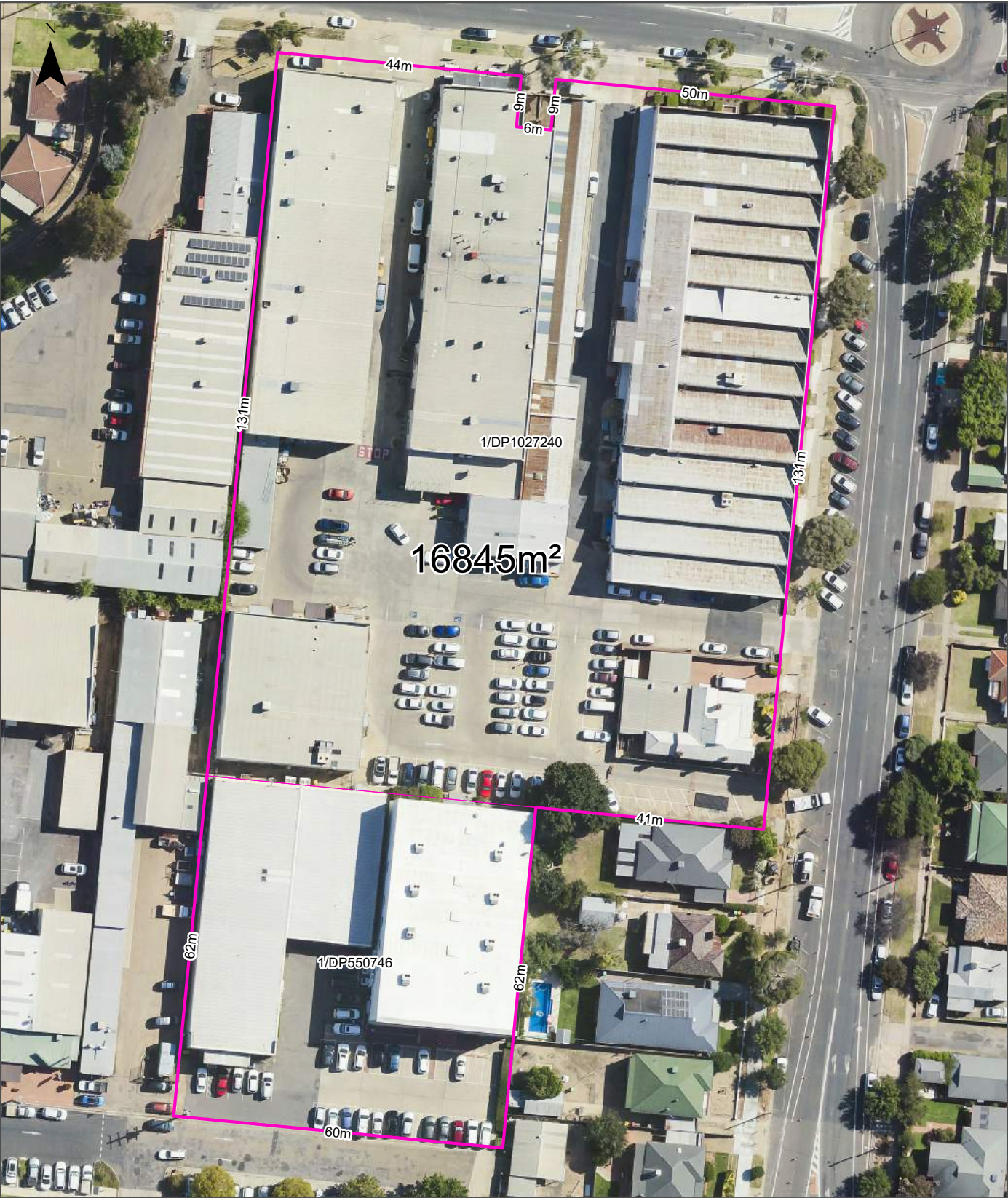
Datasets contained within this report, detailing their source and data currency:

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	17/06/2022	17/06/2022	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	02/09/2022	10/08/2022	Monthly	1000m	0	0	5
Contaminated Land Records of Notice	Environment Protection Authority	29/09/2022	29/09/2022	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	02/09/2022	14/07/2021	Quarterly	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	23/08/2022	13/07/2012	Annually	1000m	0	0	5
EPA PFAS Investigation Program	Environment Protection Authority	02/09/2022	14/07/2021	Monthly	2000m	0	0	1
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	02/09/2022	02/09/2022	Monthly	2000m	0	0	1
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	02/09/2022	02/09/2022	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	02/09/2022	02/09/2022	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	02/09/2022	02/09/2022	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	16/02/2022	13/12/2018	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	29/09/2022	29/09/2022	Monthly	1000m	0	0	1
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	29/09/2022	29/09/2022	Monthly	1000m	0	0	2
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	29/09/2022	29/09/2022	Monthly	1000m	0	3	5
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	37	99	123
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	73	75
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	15
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	1	24
Points of Interest	NSW Department of Customer Service - Spatial Services	18/08/2022	18/08/2022	Quarterly	1000m	1	2	66
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	18/08/2022	18/08/2022	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	18/08/2022	18/08/2022	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	29/08/2022	29/08/2022	Quarterly	1000m	0	0	8
State Forest	Forestry Corporation of NSW	16/08/2022	14/08/2022	Annually	1000m	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	10/02/2022	31/12/2021	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	29/08/2022	19/08/2019	Annually	1000m	1	1	1
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	28/03/2022	23/02/2018	Annually	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	24/01/2022	24/01/2022	Annually	2000m	0	1	214

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
NSW Seamless Geology Single Layer: Rock Units	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	1	1	2
NSW Seamless Geology – Single Layer: Trendlines	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	0	0	0
NSW Seamless Geology – Single Layer: Geological Boundaries and Faults	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	19/05/2017	17/02/2011	As required	1000m	1	1	2
Soil Landscapes of Central and Eastern NSW	NSW Department of Planning, Industry and Environment	18/08/2022	27/07/2020	Annually	1000m	2	2	4
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	02/09/2022	12/08/2022	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	1	1	2
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000m	1	2	3
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	19/08/2021	05/08/2021	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	02/09/2022	02/09/2022	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Industry	02/09/2022	02/09/2022	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	02/09/2022	02/09/2022	Monthly	1000m	1	1	3
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	15/11/2021	07/12/2018	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	15/11/2021	05/11/2021	Monthly	1000m	1	8	72
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	17/08/2022	11/02/2022	Quarterly	1000m	0	0	1
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	02/09/2022	26/08/2022	Monthly	1000m	0	1	59
Bush Fire Prone Land	NSW Rural Fire Service	26/09/2022	08/08/2022	Weekly	1000m	0	0	0
Vegetation of Central-Southern NSW	NSW Office of Environment & Heritage	25/01/2016	02/12/2011	None planned	1000m	0	1	2
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	28/03/2022	19/03/2020	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	14/08/2017	15/05/2017	Annually	1000m	0	1	1
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000m	0	1	1
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	26/09/2022	26/09/2022	Weekly	10000m	-	-	-

Site Diagram

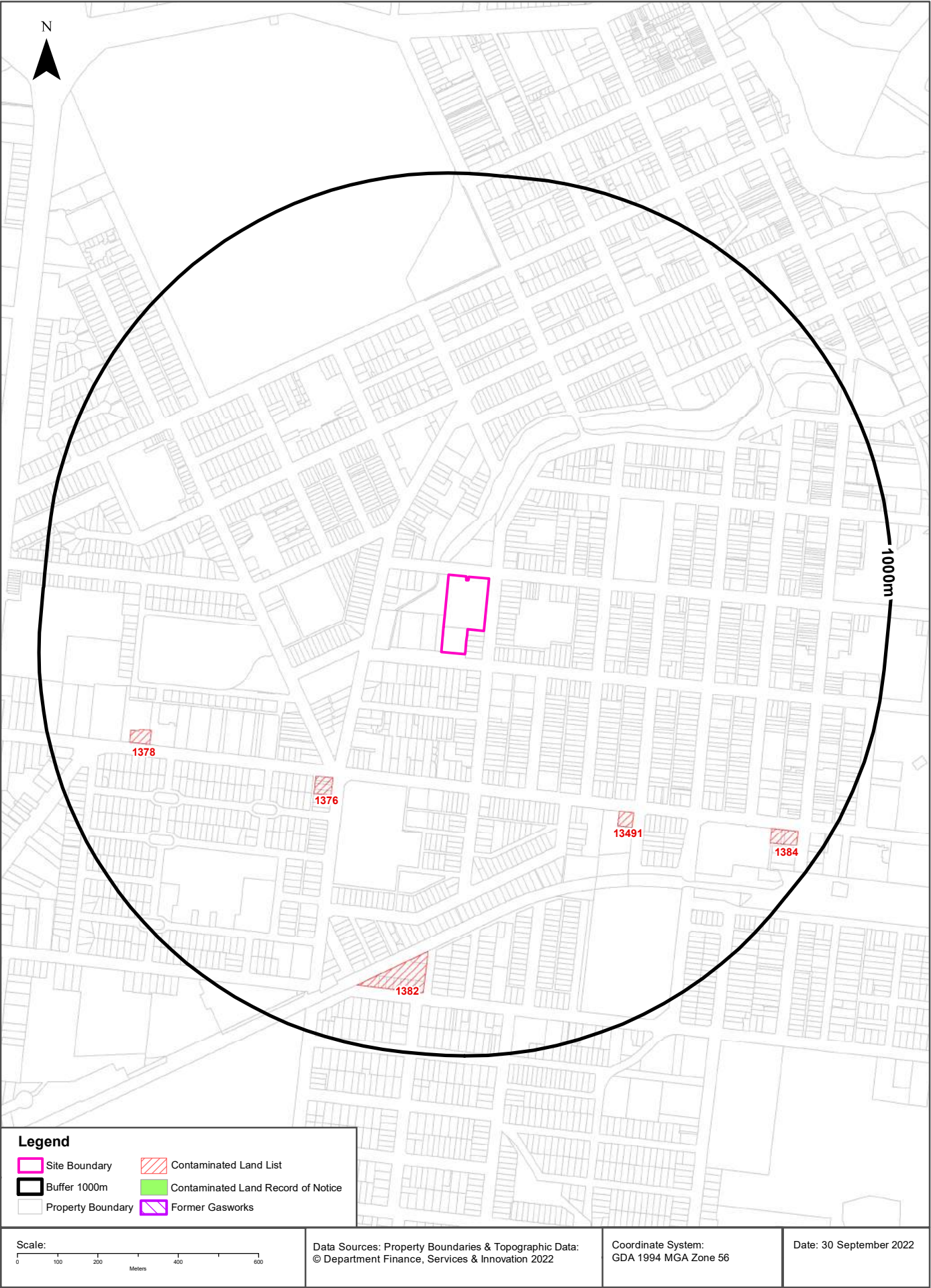
185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Legend Site Boundary Internal Parcel Boundaries	Total Area: 16845m ² Total Perimeter: 606m 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 Meters Data Source Aerial Imagery: © Aerometrex Pty Ltd Coordinate System: GDA 1994 MGA Zone 56 Date: 30 September 2022
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Contaminated Land

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Contaminated Land

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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
1376	Caltex Service Station	56 - 60 Docker STREET	Wagga Wagga	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	414m	South West
13491	BP Wagga Wagga	180 Edward Street	WAGGA WAGGA	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	545m	South East
1382	Former Mobil Depot Wagga Wagga	97-99 Coleman Street	Wagga Wagga	Other Petroleum	Regulation under CLM Act not required	Current EPA List	Premise Match	745m	South
1378	Coles Express Wagga Wagga	353-355 Edward Street	Wagga Wagga	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	748m	West
1384	Caltex (former Mobil) Service Station	106 Edward Street	Wagga Wagga	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	866m	South East

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.

EPA site management class	Explanation
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

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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:

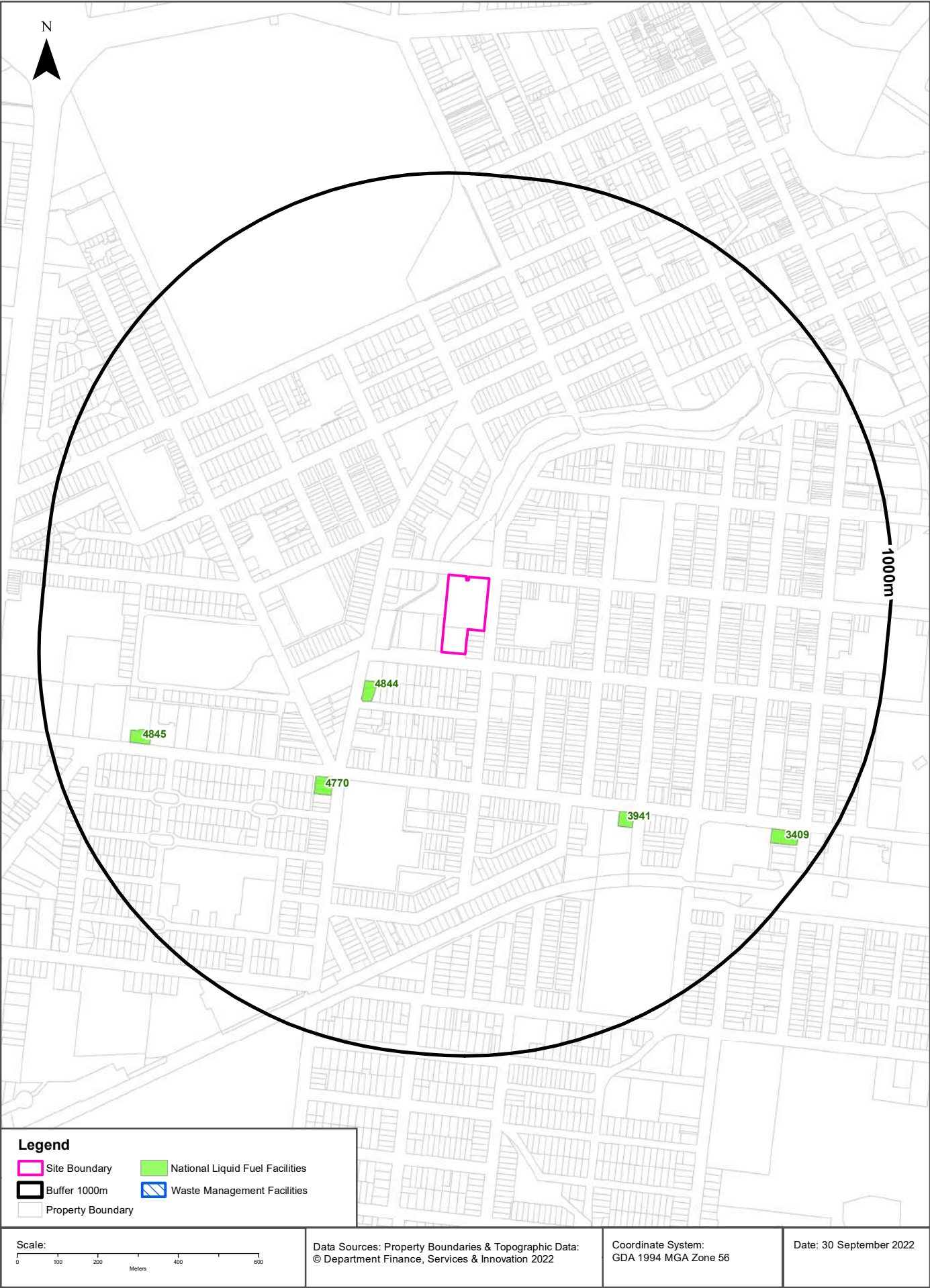
Map Id	Location	Council	Further Info	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Waste Management & Liquid Fuel Facilities

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Waste Management & Liquid Fuel Facilities

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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

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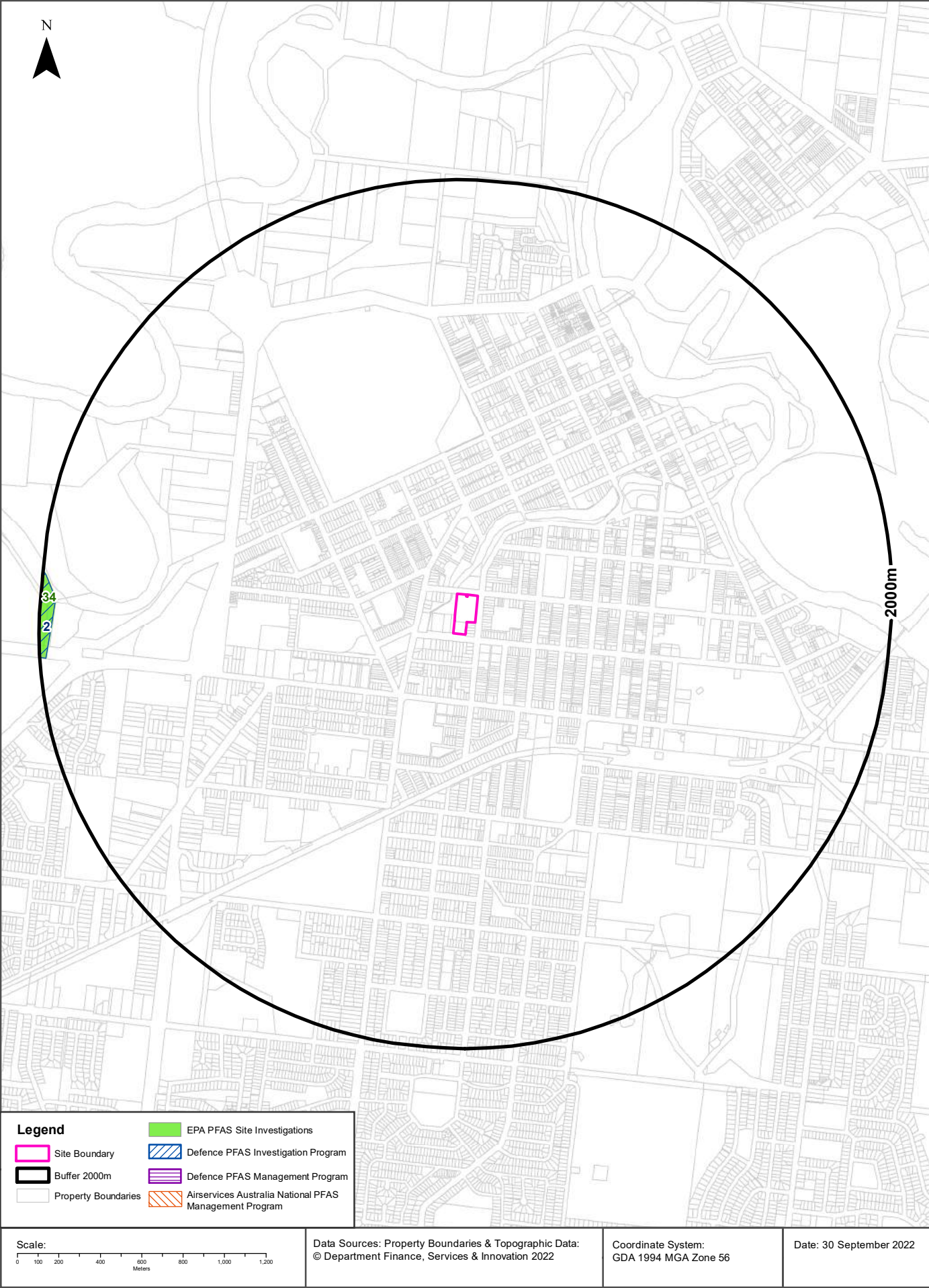
National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
4844	Shell	Docker Street Auto Port	81-83 Docker Street	Wagga Wagga	Petrol Station	Operational		25/07/2011	Premise Match	168m	South West
4770	Caltex	Caltex Wagga Wagga	56-60 Docker Street	Wagga Wagga	Petrol Station	Operational		25/07/2011	Premise Match	414m	South West
3941	BP	BP Wagga Wagga	172 Edward Street	Wagga Wagga	Petrol Station	Operational		25/07/2011	Premise Match	545m	South East
4845	Shell	Coles Express Wagga Wagga	357 Edward Street	Wagga Wagga	Petrol Station	Operational		25/07/2011	Premise Match	748m	West
3409	7-Eleven Pty Ltd	Mobil Wagga Wagga	106 Edward Street	Wagga Wagga	Petrol Station	Operational		13/07/2012	Premise Match	866m	South East

National Liquid Fuel Facilities Data Source: Geoscience Australia

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PFAS Investigation & Management Programs

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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
34	Kapooka, Blamey Barracks	Kapooka Dr, Kapooka NSW 2661	Premise Match	1926m	West

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
2	Blamey Barracks (Kapooka)	Kapooka, New South Wales	Premise Match	1926m	West

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

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Defence 3 Year Regional Contamination Investigation Program

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

EPA Other Sites with Contamination Issues

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

EPA Other Sites with Contamination Issues

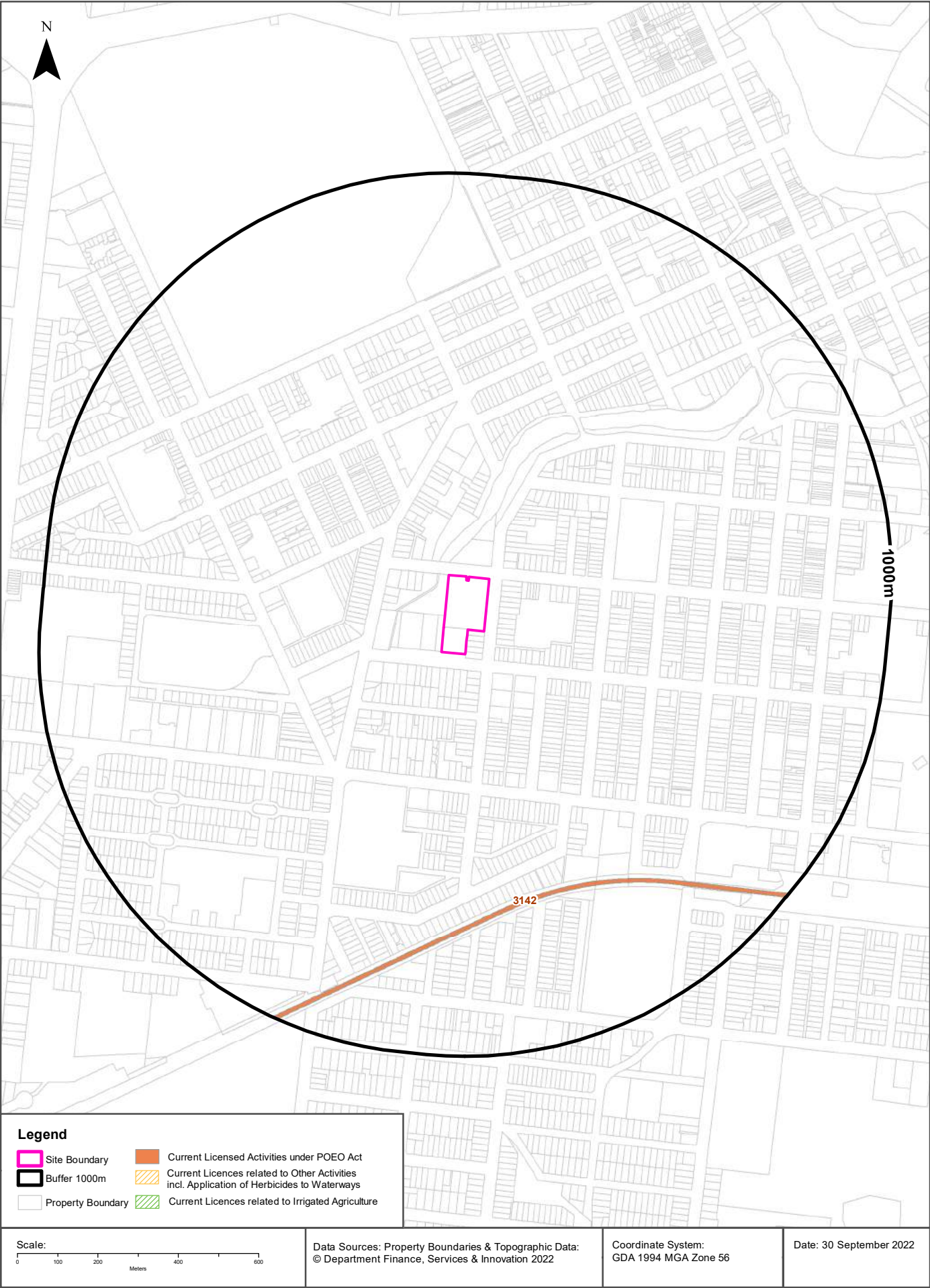
This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- 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

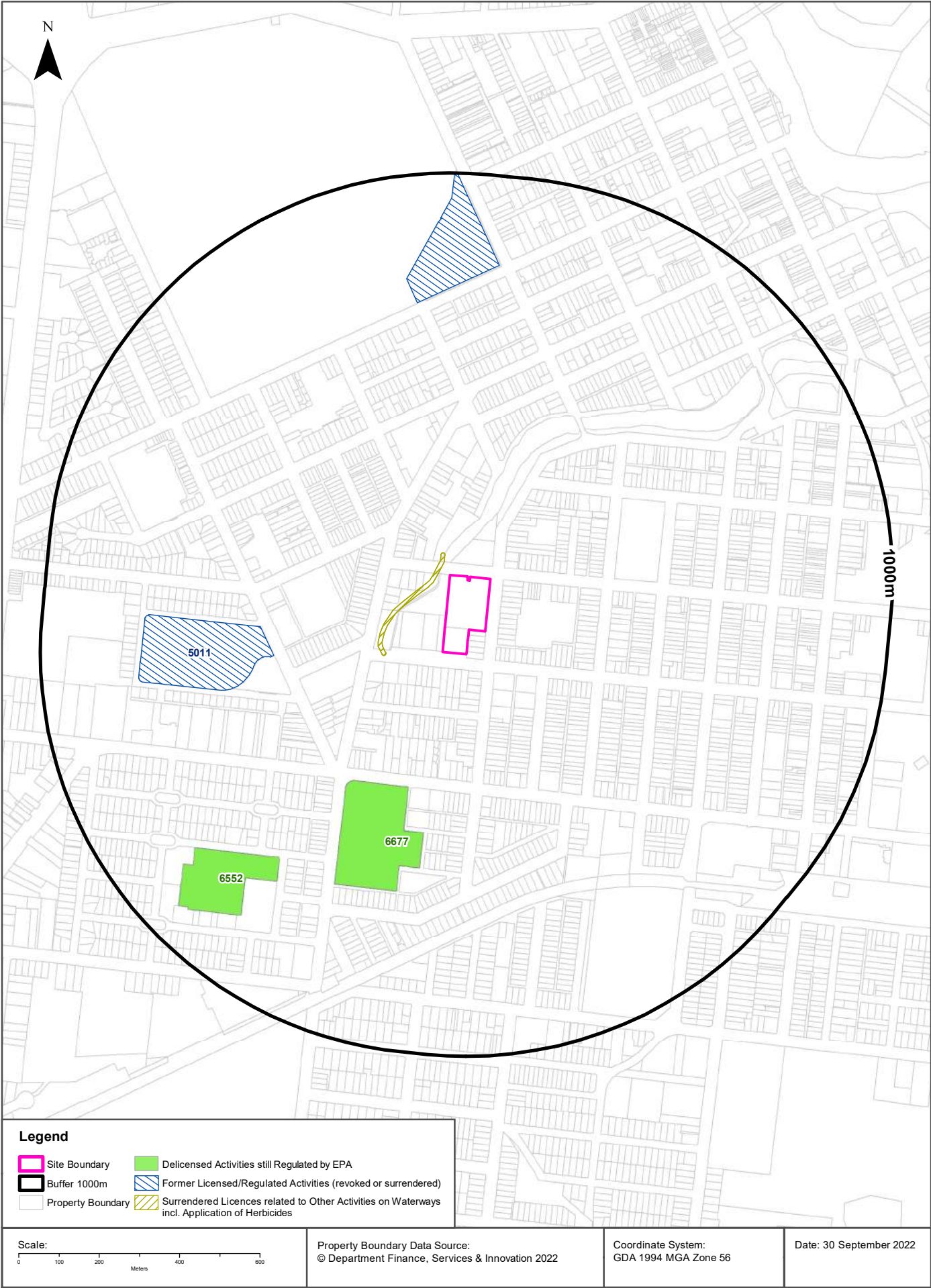
185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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
3142	AUSTRALIAN RAIL TRACK CORPORATION LIMITED		AUSTRALIAN RAIL TRACK CORPORATION (ARTC) NETWORK, SYDNEY, NSW 2001		Railway systems activities	Network of Features	624m	South

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



EPA Activities

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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
6677	GREATER SOUTHERN AREA HEALTH SERVICE	WAGGA WAGGA BASE HOSPITAL	EDWARD ST	WAGGA WAGGA	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	346m	South
6552	CALVARY HEALTH CARE RIVERINA LIMITED	CALVARY HOSPITAL	HARDY AVE	WAGGA WAGGA	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	655m	South West

Delicensed Activities Data Source: Environment Protection Authority
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Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

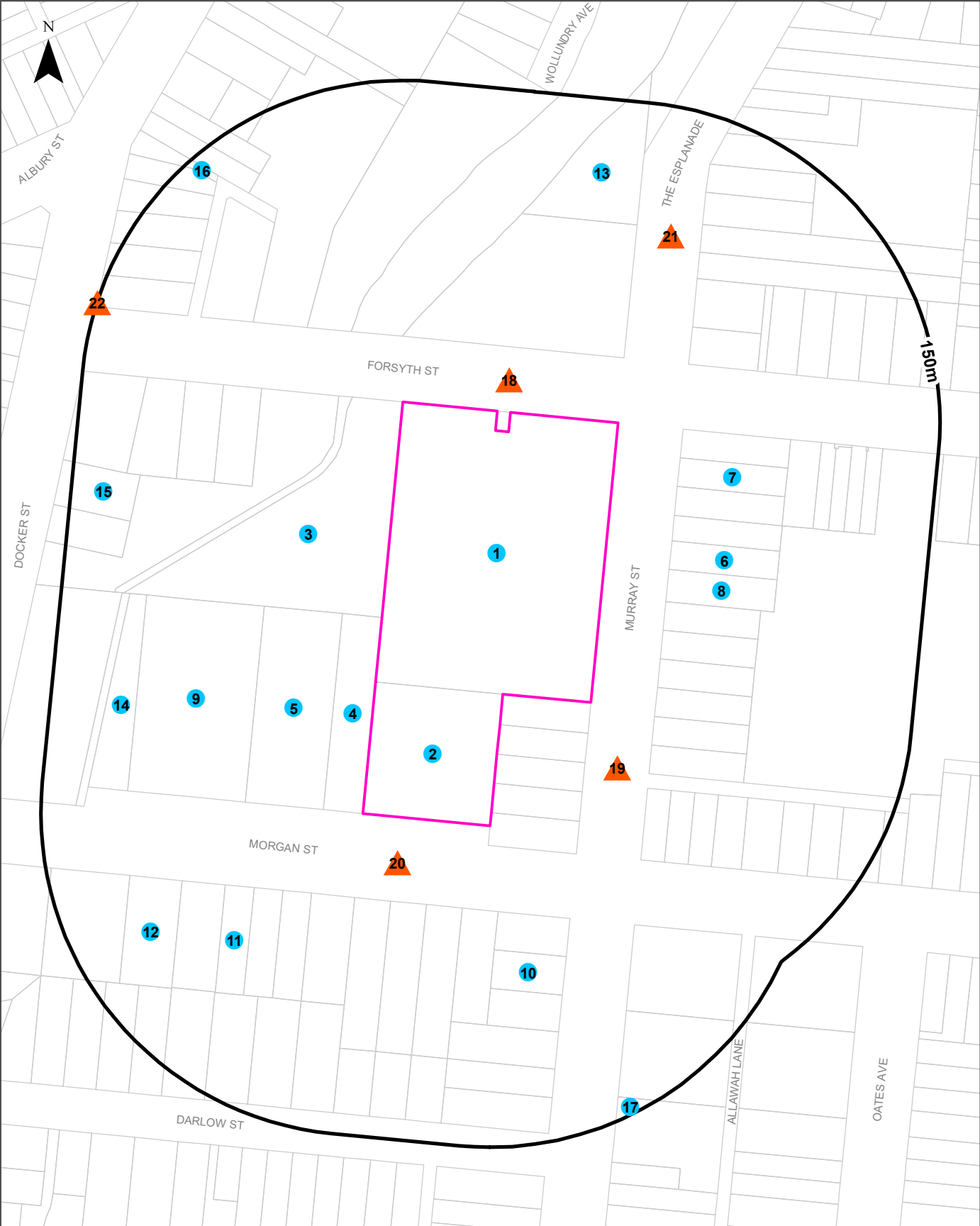
Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

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	28m	West
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	28m	West
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	28m	West
5011	WAGGA WAGGA CITY COUNCIL	DUKE OF KENT OVAL, KENT CRESCENT, WAGGA WAGGA, NSW 2650	Surrendered	22/05/2000	Other activities	Premise Match	420m	West
5011	WAGGA WAGGA CITY COUNCIL	WAGGA WAGGA CRICKET GROUND, CNR KINCAID & BECKWITH STREETS, WAGGA WAGGA, NSW 2650	Surrendered	22/05/2000	Other activities	Premise Match	682m	North

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

Historical Business Directories

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Legend		Scale: 0 30 60 90 120 Metres	Coordinate System: GDA 1994 MGA Zone 56
Site Boundary	Business directory records mapped to a specific premise		Date: 30 September 2022
Buffer 150m	Business directory records mapped to a road intersection	Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018	
Property Boundary	Business directory records mapped to a road corridor		
Business directory records mapped to a general area			

Historical Business Directories

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Business Directory Records 1950-1991 Premise or Road Intersection Matches

Universal Business Directory records from years 1991, 1982, 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
1	COMPUTER BUREAU & TIME SHARING SERVICES.	Budget (Data) Processing., 94 Murray St, Wagga Wagga. 2650	214586	1991	Premise Match	0m	On-site
	COMPUTER SALES &/OR SERVICE.	Budget (Data) Processing., 94 Murray St, Wagga Wagga. 2650	214612	1991	Premise Match	0m	On-site
	FACSIMILE BUREAUX	Budget Office Systems., 94 Murray St, Wagga Wagga. 2650	214867	1991	Premise Match	0m	On-site
	FACSIMILE EQUIPMENT &/OR SUPPLIES MFRS. &/OR IMPS. &/OR DIST.	Budget Office Systems., 94 Murray St, Wagga Wagga. 2650	214869	1991	Premise Match	0m	On-site
	MOBILE PHONES.	Budget Office Systems., 94 Murray St, Wagga Wagga. 2650	215700	1991	Premise Match	0m	On-site
	OFFICE EQUIPMENT &/OR SUPPLIES - RETAIL	Budget Office Systems., 94 Murray St, Wagga Wagga. 2650	216123	1991	Premise Match	0m	On-site
	OFFICE EQUIPMENT &/OR SUPPLIES MFRS. &/OR IMPS. &/OR W/SALERS.	Budget Office Systems., 94 Murray St, Wagga Wagga. 2650	216113	1991	Premise Match	0m	On-site
	PHOTO COPYING EQUIPMENT MFRS. &/OR DIST.	Budget Office Systems., 94 Murray St, Wagga Wagga. 2650	216645	1991	Premise Match	0m	On-site
	PHOTO COPYING SERVICES.	Budget Office Systems., 94 Murray St, Wagga Wagga. 2650	216649	1991	Premise Match	0m	On-site
	AIR CONDITIONING SALES &/OR SERVICE.	Daikin Air-Conditioning Pty. Ltd., 94 Murray St, Wagga Wagga. 2650	214033	1991	Premise Match	0m	On-site
	EMPLOYMENT AGENCIES.	Mission Employment., 82 Murray St, Wagga Wagga. 2650	214810	1991	Premise Match	0m	On-site
	VETERINARY SURGEONS & HOSPITALS	Murray Street Veterinary Clinic., 96 Murray St, Wagga Wagga. 2650	218309	1991	Premise Match	0m	On-site
	PAINT ENAMEL VARNISH &/OR STAIN MFRS. &/OR IMPS. &/OR DIST.	Pascol Paints., 84 Murray St, Wagga Wagga. 2650	216172	1991	Premise Match	0m	On-site
	FACSIMILE BUREAUX	Remington Pty. Ltd., 98 Murray St, Wagga Wagga. 2650	214868	1991	Premise Match	0m	On-site
	FACSIMILE EQUIPMENT &/OR SUPPLIES MFRS. &/OR IMPS. &/OR DIST.	Remington Pty. Ltd., 98 Murray St, Wagga Wagga. 2650	214872	1991	Premise Match	0m	On-site
	OFFICE EQUIPMENT &/OR SUPPLIES - RETAIL	Remington Pty. Ltd., 98 Murray St, Wagga Wagga. 2650	216131	1991	Premise Match	0m	On-site
	PHOTO COPYING EQUIPMENT MFRS. &/OR DIST.	Remington Pty. Ltd., 98 Murray St, Wagga Wagga. 2650	216647	1991	Premise Match	0m	On-site
	PHOTO COPYING SERVICES.	Remington Pty. Ltd., 98 Murray St, Wagga Wagga. 2650	216656	1991	Premise Match	0m	On-site
	HAIRDRESSERS - LADIES &/OR BEAUTY SALONS	Scallywags Family Hairdressers Rear., 88 Murray St, Wagga Wagga. 2650	215235	1991	Premise Match	0m	On-site
	HAIRDRESSERS - MENS.	Scallywags Family Hairdressers Rear., 88 Murray St, Wagga Wagga. 2650	215260	1991	Premise Match	0m	On-site
	FIRE FIGHTING SYSTEMS &/OR APPLIANCE MFRS. &/OR INSTALLERS.	Wormald Fire Systems., 92 Murray St, Wagga Wagga. 2650	214935	1991	Premise Match	0m	On-site
	FIRE DOOR MFRS. &/OR DIST.	Wormald Fire Systems., 92 Murray Street, Wagga Wagga. 2650	214932	1991	Premise Match	0m	On-site
	AIR CONDITIONING SALES &/OR SERVICE	Climatrol, 86 Murray St., Wagga Wagga 2650	163312	1982	Premise Match	0m	On-site
	FURNITURE REMOVALISTS &/OR STORAGE	McCormack & Wife Unit 14, 82 Murray Street, Wagga Wagga 2650	164082	1982	Premise Match	0m	On-site

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	CARRIERS &/OR CARTAGE CONTRACTORS	McCormack & Wife, Unit 14, 82 Murray St., Wagga Wagga 2650	163664	1982	Premise Match	0m	On-site
	FURNITURE REMOVALISTS &/OR STORAGE	McCormack & Wife, Unit 14, 82 Murray St., Wagga Wagga 2650	164084	1982	Premise Match	0m	On-site
	FIRST AID SUPPLIES	Nimo, Gary, 88 Murray St., Wagga Wagga 2650	163994	1982	Premise Match	0m	On-site
	HEALTH EQUIPMENT	Nimo, Gary, 88 Murray St., Wagga Wagga 2650	164241	1982	Premise Match	0m	On-site
	HEALTH FOODS - RETAIL	Nimo, Gary, 88 Murray St., Wagga Wagga 2650	164243	1982	Premise Match	0m	On-site
	HIRING SERVICES	Nimo, Gary, 88 Murray St., Wagga Wagga 2650	164251	1982	Premise Match	0m	On-site
	PHYSICAL CULTURE TEACHERS &/OR GYMNASIUMS	Nimo, Gary, 88 Murray St., Wagga Wagga 2650	164874	1982	Premise Match	0m	On-site
	SAUNA BATHS.	Nimo, Gary, 88 Murray St., Wagga Wagga 2650	165049	1982	Premise Match	0m	On-site
	HOTEL &/OR MOTEL EQUIPMENT SUPPLIES.	Santlee Wagga 82 Murray St., Wagga Wagga 2650	164273	1982	Premise Match	0m	On-site
	WINDOW FRAME MFRS. &/OR DIST.	Stegbar Windowwalls Pty. Ltd. 96 Murray St., Wagga Wagga 2650	165391	1982	Premise Match	0m	On-site
	PHOTOGRAPHIC SUPPLIES	Workout, 88 Murray St., Wagga Wagga 2650	164872	1982	Premise Match	0m	On-site
2	FURNITURE REMOVALISTS &/OR STORAGE.	Wridgways/Ansett., 185 Morgan St, Wagga Wagga. 2650	215052	1991	Premise Match	0m	On-site
	FURNITURE REMOVALISTS &/OR STORAGE	Wridgways/Ansett, 185 Morgan St., Wagga Wagga 2650	164085	1982	Premise Match	0m	On-site
3	SIGNWRITERS.	Danebus F. & C. Pty. Ltd., Unit 10/180 Forsyth St, Wagga Wagga. 2650	217496	1991	Premise Match	0m	West
	GOVERNMENT DEPARTMENTS.	Distributing Post Office., 180 Forsyth St, Wagga Wagga. 2650	215169	1991	Premise Match	0m	West
	PAINT - ANTI-CORROSIVE OR PROTECTIVE COATING - MFRS. &/OR IMPS. &/OR DIST.	Donebus F. & C. Pty. Ltd., Unit 10/180 Forsyth St, Wagga Wagga. 2650	216165	1991	Premise Match	0m	West
	PAINT &/OR ACCESSORIES - RETAIL	Donebus F. & C. Pty. Ltd., Unit 10/180 Forsyth St, Wagga Wagga. 2650	216156	1991	Premise Match	0m	West
	PAINTERS, PAPERHANGERS &/OR DECORATORS	Donebus F. & C. Pty. Ltd., Unit 10/180 Forsyth St, Wagga Wagga. 2650	216183	1991	Premise Match	0m	West
	NOT LISTED	Donebus Pty Ltd., Unit 10, 180 Forsyth St., Wagga Wagga. 2650	213938	1991	Premise Match	0m	West
4	REFRIGERATOR CABINET &/OR SHOWCASE MFRS. &/OR DIST. &/OR REPAIRERS	Miles & Russell., 187 Morgan St, Wagga Wagga. 2650	216848	1991	Premise Match	0m	South West
	SHEET METAL WORKERS.	Miles & Russell., 187 Morgan St, Wagga Wagga. 2650	217458	1991	Premise Match	0m	South West
	REFRIGERATOR CABINET MFRS. &/OR REPAIRERS	Miles & Russell, 187 Morgan St., Wagga Wagga 2650	164983	1982	Premise Match	0m	South West
	SHEET METAL WORKERS	Miles & Russell, 187 Morgan St., Wagga Wagga 2650	165108	1982	Premise Match	0m	South West
	CEMENT PRODUCT MANUFACTURERS	Wagga City Cement & Terrazo Works (The), 187 Morgan St. Wagga Wagga	592861	1970	Premise Match	0m	South West
	CONCRETE POST MANUFACTURERS	Wagga City Cement & Terrazo Works (The), 187 Morgan St. Wagga Wagga	592896	1970	Premise Match	0m	South West
	CONCRETE PRODUCTS MANUFACTURERS	Wagga City Cement & Terrazo Works (The), 187 Morgan St. Wagga Wagga	592902	1970	Premise Match	0m	South West
5	ANTIQUE DEALERS	Antique & J. A. Junk Shop., 189 Morgan St, Wagga Wagga. 2650	214054	1991	Premise Match	18m	South West
	SECONDHAND DEALERS	Antique & J.A. Junk Shop., 189 Morgan St, Wagga Wagga. 2650	217410	1991	Premise Match	18m	South West
	AUCTIONEERS	Wagga Auctions., 189 Morgan St, Wagga Wagga. 2650	214112	1991	Premise Match	18m	South West
	ANTIQUE DEALERS	Antique & Junque Shop, 189 Morgan St., Wagga Wagga 2650	163337	1982	Premise Match	18m	South West
	SECONDHAND DEALERS.	Antique & Junque Shop. 189 Morgan St., Wagga Wagga 2650	165080	1982	Premise Match	18m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
6	CARRIERS & CARTAGE CONTRACTORS	Evans, P. G., 85 Murray St. Wagga Wagga	592839	1970	Premise Match	30m	East
	ROAD TRANSPORT SERVICES (N.S.W.)	Evans, P. G., 85 Murray St. Wagga Wagga	593946	1970	Premise Match	30m	East
	CARRIERS & CARTAGE CONTRACTORS	Evans, P. G., 85 Murray St., Wagga Wagga	229645	1961	Premise Match	30m	East
	HAULAGE CONTRACTORS	Evans, P. G., 85 Murray St., Wagga Wagga	230092	1961	Premise Match	30m	East
	MOTOR CAR & TRUCK DEALERS-NEW & USED	Evans, P. G., 85 Murray St., Wagga Wagga	230428	1961	Premise Match	30m	East
	ROAD TRANSPORT SERVICES (N.S.W.)	Evans, P. G., 85 Murray St., Wagga Wagga	230741	1961	Premise Match	30m	East
	ROADS. TRANSPORT SERVICES INTERSTATE	Evans, P. G., 85 Murray St., Wagga Wagga	230739	1961	Premise Match	30m	East
	INTERSTATE HAULAGE CONTRACTOR	P. G. Evans 85 Murray Street, Wagga Wagga	229630	1961	Premise Match	30m	East
	CONTRACTORS—GENERAL	Selmes, E., 85 Murray St., Wagga Wagga	173741	1950	Premise Match	30m	East
7	CARRIERS & CARTAGE CONTRACTORS	Bateman, J., 91 Murray St., Wagga Wagga	229633	1961	Premise Match	30m	North East
	CARRIERS & CARTAGE CONTRACTORS	Bateman, J., 91 Murray St., Wagga Wagga	173659	1950	Premise Match	30m	North East
8	CARRIERS & CARTAGE CONTRACTORS	Boswell, A. J., 83 Murray St., Wagga Wagga	229634	1961	Premise Match	30m	East
9	CLOTHING - RETAIL - SPORTSWEAR.	Lach's Ski Shop., 191 Morgan St, Wagga Wagga. 2650	214565	1991	Premise Match	55m	West
	SKI - SNOW - EQUIPMENT &/OR APPAREL.	Lach's Ski Shop., 191 Morgan St, Wagga Wagga. 2650	217504	1991	Premise Match	55m	West
	SPORTS GOODS - RETAIL	Lach's Ski Shop., 191 Morgan St, Wagga Wagga. 2650	217549	1991	Premise Match	55m	West
	ELECTRIC MOTOR INSTALLATION &/OR MAINTENANCE SPECIALISTS.	S.W.E. Electrics Pty. Ltd., 197 Morgan St, Wagga Wagga. 2650	214759	1991	Premise Match	55m	West
	ELECTRIC MOTOR MFRS. &/OR IMPS. &/OR DIST.	S.W.E. Electrics Pty. Ltd., 197 Morgan St, Wagga Wagga. 2650	214761	1991	Premise Match	55m	West
	ELECTRIC MOTOR WINDING &/OR REWINDING SPECIALISTS.	S.W.E. Electrics Pty. Ltd., 197 Morgan St, Wagga Wagga. 2650	214767	1991	Premise Match	55m	West
	ELECTRIC MOTOR WINDING &/OR REWINDING SPECIALISTS.	S.W.E. Electronics., 197 Morgan Street, Wagga Wagga. 2650	214764	1991	Premise Match	55m	West
	LIQUOR STORES - RETAIL	Vineyard Distributors., 193 Morgan St, Wagga Wagga. 2650	215579	1991	Premise Match	55m	West
	WINE &/OR SPIRIT MERCHANTS - WHOLESALE	Vineyard Distributors., 193 Morgan St, Wagga Wagga. 2650	218411	1991	Premise Match	55m	West
	LIQUOR STORES - RETAIL	Vineyard Distributors., 193 Morgan Street Wagga Wagga. 2650	215572	1991	Premise Match	55m	West
	POWER TOOLS.	Wagga Power Tools., 197 Morgan St, Wagga Wagga. 2650	216752	1991	Premise Match	55m	West
	POWER TOOLS.	Wagga Power Tools., 197 Morgan Street, Wagga Wagga. 2650	216744	1991	Premise Match	55m	West
	ELECTRIC MOTOR WINDING &/OR REWINDING SPECIALISTS	S.W.E Electrics Pty. Ltd., 197 Morgan St., Wagga Wagga 2650	163887	1982	Premise Match	55m	West
	ELECTRIC MOTORS - REPAIRS &/OR SUPPLIES.	S.W.E. Electrics Pty. Ltd. 197 Morgan Street, Wagga Wagga 2650	163889	1982	Premise Match	55m	West
	ELECTRONIC EQUIPMENT REPAIRS &/OR SERVICING	S.W.E. Electronics Pty. Ltd., 197 Morgan St., Wagga Wagga 2650	163922	1982	Premise Match	55m	West
	SWIMMING POOLS & EQUIPMENT	S.W.E. Pool & Pump Centre, 197 Morgan St., Wagga Wagga 2650	165222	1982	Premise Match	55m	West
	WINE &/OR SPIRIT MERCHANTS - WHOLESALE	Vineyard Distributors, 193 Morgan St., Wagga Wagga 2650	165397	1982	Premise Match	55m	West
	WINE &/OR SPIRIT MERCHANTS - RETAIL	Vineyard Sellers. 193 Morgan St., Wagga Wagga 2650	165395	1982	Premise Match	55m	West
	MOTOR OIL & SPIRIT DEPOTS	Castrol, 195 Morgan St. Wagga Wagga	593714	1970	Premise Match	55m	West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
9	ENGINEERS-HOT WATER, HEATING & VENTILATION	Kenyon, J. W. & L. C., 197 Morgan St. Wagga Wagga	593068	1970	Premise Match	55m	West
	PLUMBERS, GASFITTERS & DRAINLAYERS	Kenyon, J. W. & L. C., 197 Morgan St. Wagga Wagga	593865	1970	Premise Match	55m	West
	CARPET & FLOORCOVERINGS RETAILERS &/OR SPECS.	Riverina Floor Coverings, 191 Morgan St. Wagga Wagga	592822	1970	Premise Match	55m	West
10	DRESSMAKERS & COSTUMIERS	Wood, Mrs. H. M., 62 Murray St., Wagga Wagga	229783	1961	Premise Match	58m	South
11	CARRIERS &/OR CARTAGE CONTRACTORS	Hurst, R. B., 190 Morgan St., Wagga Wagga 2650	163662	1982	Premise Match	61m	South West
	WAREHOUSEMEN	Hurst, R. B., 190 Morgan St., Wagga Wagga 2650	165365	1982	Premise Match	61m	South West
	CARRIERS & CARTAGE CONTRACTORS	Hurst, R. B., 190 Morgan St. Wagga Wagga	592842	1970	Premise Match	61m	South West
12	CARRIERS &/OR CARTAGE CONTRACTORS.	Hurst R B., 194 Morgan St, Wagga Wagga. 2650	214427	1991	Premise Match	90m	South West
	HAULAGE CONTRACTORS	Hurst R. B., 194 Morgan St, Wagga Wagga. 2650	215297	1991	Premise Match	90m	South West
	WAREHOUSEMEN.	Hurst R. B., 194 Morgan St, Wagga Wagga. 2650	218353	1991	Premise Match	90m	South West
13	GRAVEL, SAND & SOIL SUPPLIES	Clear, F. & Son, 106 Murray St. Wagga Wagga	593224	1970	Premise Match	93m	North
	CARRIERS & CARTAGE CONTRACTORS	Clear, F. and Son, 106 Murray St., Wagga Wagga	229639	1961	Premise Match	93m	North
	CARRIERS & CARTAGE CONTRACTORS	Clear, F. and Son., 106 Murray St., Wagga Wagga	173663	1950	Premise Match	93m	North
14	HOT WATER SYSTEMS &/OR FITTINGS MFRS. &/OR DIST.	Marshall Agencies (Wagga), 199 Morgan St, Wagga Wagga. 2650	215362	1991	Premise Match	110m	West
	MANUFACTURERS AGENTS.	Marshall Agencies (Wagga), 199 Morgan St, Wagga Wagga. 2650	215606	1991	Premise Match	110m	West
	MANUFACTURERS AGENTS	Marshall Agencies, (Wagga), 199 Morgan St., Wagga Wagga 2650	164424	1982	Premise Match	110m	West
	HOT WATER SYSTEMS - ELECTRIC MFRS. &/OR DIST	Marshall Agencies. (Wagga) 199 Morgan St., Wagga Wagga 2650	164270	1982	Premise Match	110m	West
15	PICTURE FRAME MFRS. &/OR PICTURE FRAMERS.	Wagga Picture Frames., 125A Docker St, Wagga Wagga. 2650	216701	1991	Premise Match	119m	West
	TERRAZZO SPECIALISTS	Riverina Terrazzo and Monumental Works, 125a Docker St., Wagga Wagga	230891	1961	Premise Match	119m	West
	CONCRETE PRODUCTS MANUFACTURERS	Riverina Terrazzo and Monumental Works, 125a Docker St., Wagga Wagga	229717	1961	Premise Match	119m	West
	MONUMENTAL MASONS	Riverina Terrazzo and Monumental Works, 125a Docker St., Wagga Wagga	230370	1961	Premise Match	119m	West
16	PET SHOPS.	Wagga Pet Supplies., 135 Docker St, Wagga Wagga. 2650	216206	1991	Premise Match	134m	North West
	BUTCHERS - RETAIL	Model Butchery, 135 Docker St., Wagga Wagga 2650	163596	1982	Premise Match	134m	North West
	BUTCHERS-RETAIL	Bullen's Butchery, 135 Docker St. Wagga Wagga	592766	1970	Premise Match	134m	North West
	BUTCHERS-RETAIL	Model Butchery (The), 135 Docker St., Wagga Wagga	229571	1961	Premise Match	134m	North West
	BUTCHERS-RETAIL	Wakernr Stan., 135 Docker St., Wagga Wagga	173601	1950	Premise Match	134m	North West
17	BOAT LAUNCH &/OR YACHT SALES &/OR SERVICE.	Wagga Boat & Sports Centre., 55 Murray St, Wagga Wagga. 2650	214214	1991	Premise Match	140m	South
	GUNSMITHS.	Wagga Boat & Sports Centre., 55 Murray St, Wagga Wagga. 2650	215210	1991	Premise Match	140m	South
	OUTBOARD MOTOR MFRS. &/OR DIST.	Wagga Boat & Sports Centre., 55 Murray St, Wagga Wagga. 2650	216148	1991	Premise Match	140m	South
	BOAT, LAUNCH &/OR YACHT SALES &/OR SERVICE	Wagga Boat & Sports Centre, 55 Murray St., Wagga Wagga 2650	163469	1982	Premise Match	140m	South
	GUNSMITHS.	Wagga Boat & Sports Centre, 55 Murray St., Wagga Wagga 2650	164182	1982	Premise Match	140m	South

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
17	OUTBOARD MOTOR MFRS. &/OR DIST	Wagga Boat & Sports Centre, 55 Murray St., Wagga Wagga 2650	164812	1982	Premise Match	140m	South
	BOAT, LAUNCH & YACHT SALES & SERVICE	Wagga Boat Centre, 55 Murray St. Wagga Wagga	592655	1970	Premise Match	140m	South
	CARAVAN DEALERS &/OR HIRERS	Wagga Caravan Service, 55 Murray St. Wagga Wagga	592816	1970	Premise Match	140m	South
	CARAVAN & TRAILER HIRERS	Riverina Caravans, 55 Murray St., Wagga Wagga	229618	1961	Premise Match	140m	South
	CARAVAN BUILDERS	Riverina Caravans, 55 Murray St., Wagga Wagga	229611	1961	Premise Match	140m	South
	CARAVAN DEALERS	Riverina Caravans, 55 Murray St., Wagga Wagga	229615	1961	Premise Match	140m	South

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Business Directory Records 1950-1991

Road or Area Matches

Universal Business Directory records from years 1991, 1982, 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
18	BAKERS	Bread Crock The Sturt Mall., Forsyth St, Wagga Wagga. 2650	214137	1991	Road Match	0m
	BOOKSELLERS - RETAIL	Bredins Newsagency Sturt Mall., Forsyth St, Wagga Wagga. 2650	214220	1991	Road Match	0m
	GIFT SHOPS.	Bredins Newsagency Sturt Mall., Forsyth St, Wagga Wagga. 2650	215120	1991	Road Match	0m
	GREETING CARDS - RETAIL.	Bredins Newsagency Sturt Mall., Forsyth St, Wagga Wagga. 2650	215203	1991	Road Match	0m
	NEWSAGENTS.	Bredins Newsagency Sturt Mall., Forsyth St, Wagga Wagga. 2650	216088	1991	Road Match	0m
	GIFT SHOPS.	Card Cage The Sturt Mall., Forsyth St, Wagga Wagga. 2650	215121	1991	Road Match	0m
	TAKE-AWAY FOODS	Chicken Spot Sturt Mall., Forsyth St, Wagga Wagga. 2650	217649	1991	Road Match	0m
	DELICATESSENS.	Cut Price Deli Sturt Mall., Forsyth St, Wagga Wagga. 2650	214676	1991	Road Match	0m
	HOSPITAL &/OR MEDICAL BENEFITS FUNDS.	H. C.F., Sturt Mall Forsyth St, Wagga Wagga. 2650	215355	1991	Road Match	0m
	DEPARTMENTAL STORES.	K Mart Sturt Mall., Forsyth St, Wagga Wagga. 2650	214700	1991	Road Match	0m
	CLOTHING - RETAIL - LADIES &/OR GIRLS WEAR.	Kambie Sturt Mall., Forsyth St, Wagga Wagga. 2650	214525	1991	Road Match	0m
	DRESS FABRIC RETAILERS.	Knitwit Sturt Mall., Forsyth St, Wagga Wagga. 2650	214731	1991	Road Match	0m
	RESTAURANTS	La Terrasse Café., Forsyth St, Wagga Wagga. 2650	217311	1991	Road Match	0m
	JEWELLERS - RETAIL	Lilly's Sturt Mall., Forsyth St, Wagga Wagga. 2650	215489	1991	Road Match	0m
	CLOTHING - RETAIL - LADIES &/OR GIRLS WEAR.	Marneys Boutique. Sturt Mall., Forsyth St, Wagga Wagga. 2650	214529	1991	Road Match	0m
	CAFES TEA ROOMS &/OR COFFEE LOUNGES	New Orleans Coffee Shop The Sturt Mall., Forsyth St, Wagga Wagga. 2650	214369	1991	Road Match	0m
	JEWELLERS - RETAIL	Oakes Bruce Jewellers Shop 5 Sturt Mall Forsyth St, Wagga Wagga. 2650	215491	1991	Road Match	0m
	CHEMISTS - PHARMACEUTICAL	Papps Chemist Sturt Mall., Forsyth St, Wagga Wagga. 2650	214469	1991	Road Match	0m
	COSMETIC MFRS. &/OR W/SALERS.	Penelope's Sturt Mall., Forsyth St, Wagga Wagga. 2650	214655	1991	Road Match	0m
	CLOTHING - RETAIL - LADIES &/OR GIRLS WEAR.	Sparkles Sturt Mall., Forsyth St, Wagga Wagga. 2650	214541	1991	Road Match	0m
	HAIRDRESSERS - MENS.	Sturt Mall Barber Shop Sturt Mall., Forsyth St, Wagga Wagga. 2650	215262	1991	Road Match	0m
	RESTAURANTS	Sturt Mall Eatery Sturt Mall., Forsyth St, Wagga Wagga. 2650	217327	1991	Road Match	0m
	TAKE-AWAY FOODS	Sturt Mall Eatery. Sturt Mall., Forsyth St, Wagga Wagga. 2650	217676	1991	Road Match	0m
	HAIRDRESSERS - LADIES &/OR BEAUTY SALONS	Sturt Mall Hair Fashions Shop 6, Sturt Mall, Forsyth St, Wagga Wagga. 2650	215238	1991	Road Match	0m
	LOCKSMITHS &/OR KEY CUTTERS.	Sturt Mall Watch & Key Service, Sturt Mall., Forsyth St, Wagga Wagga. 2650	215596	1991	Road Match	0m
	FOOTWEAR RETAILERS	Williams The Shoeman Sturt Mall., Forsyth St, Wagga Wagga. 2650	214988	1991	Road Match	0m
	CLOTHING MFRS. &/OR WSALERS-WATERPROOF	Dunlop Weatherproof Aust. Pty. Ltd., Forsyth St. Wagga Wagga	592887	1970	Road Match	0m
	WOOD MERCHANTS	Nelsons Woodyard, Forsyth St. Wagga Wagga	176074	1950	Road Match	0m

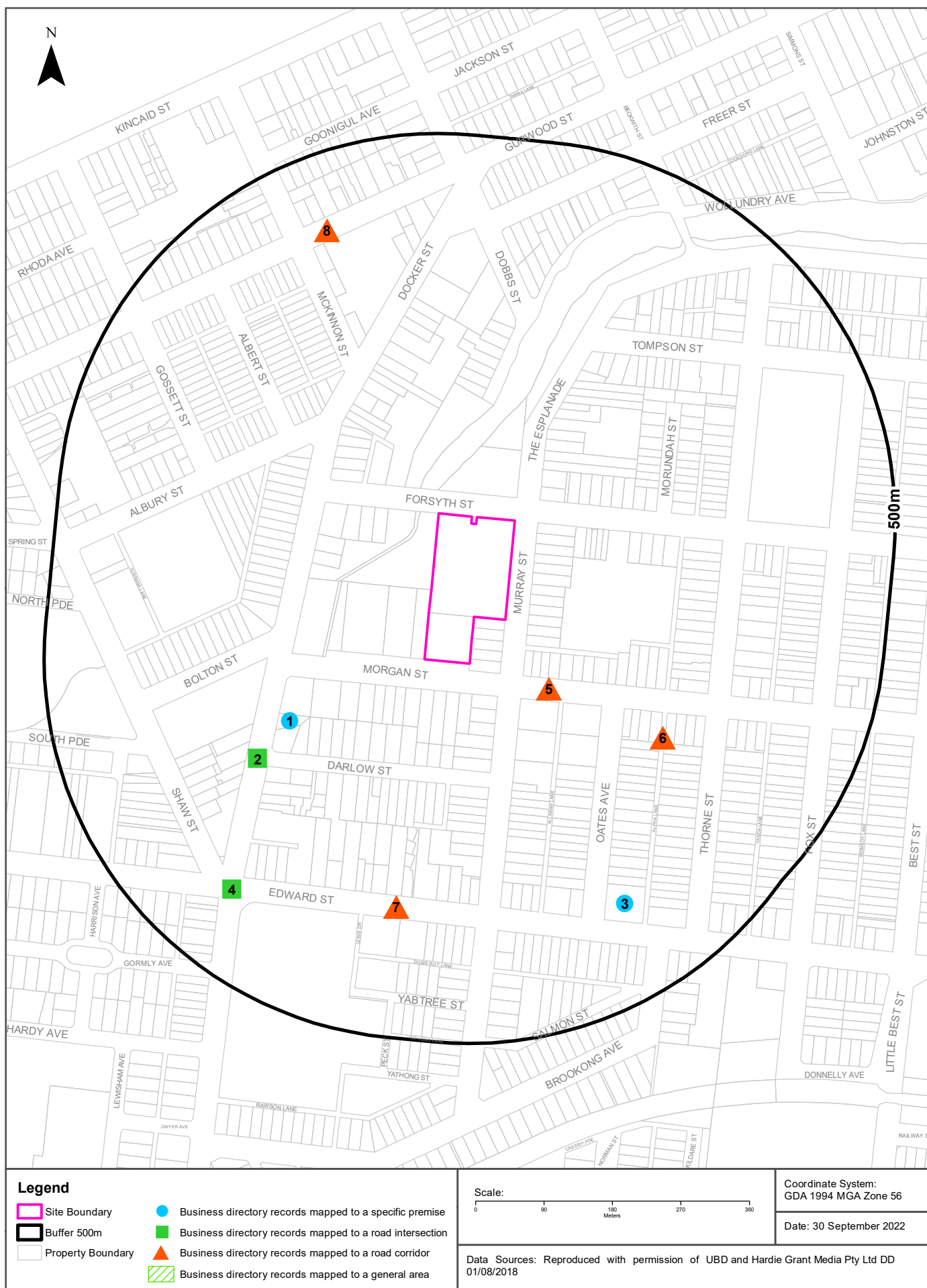
Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
19	COMPUTER BUREAU & TIME SHARING SERVICES.	Competent Computer Services., Murray St, Wagga Wagga. 2650	214587	1991	Road Match	0m
	PAINT, ENAMEL, VARNISH, STAIN MFRS. &/OR DIST.	Pascol Paints, Murray St., Wagga Wagga 2650	164818	1982	Road Match	0m
	CLOTHING MANUFACTURERS &/OR WHOLESALERS - WATERPROOF	Dunlop Weatherproofs Aust. Pty. Ltd., Murray St., Wagga Wagga	173733	1950	Road Match	0m
20	GOVERNMENT DEPARTMENTS.	Consumer Affairs Dept of., 45 Morgan St, Wagga Wagga. 2650	215167	1991	Road Match	0m
	INSURANCE COMPANIES - GENERAL.	Federation Insurance Ltd., Shop 9B South Point Morgan St, Wagga Wagga. 2650	215442	1991	Road Match	0m
	INSURANCE COMPANIES - LIFE.	Federation Insurance Ltd., Shop 9B South Point Morgan St, Wagga Wagga. 2650	215459	1991	Road Match	0m
	INSURANCE COMPANIES - GENERAL.	Federation Insurance., Shop 9B Southpoint Shopping Centre Morgan Street Wagga Wagga. 2650	215437	1991	Road Match	0m
	INSURANCE COMPANIES - LIFE.	Federation Life., Shop 9B South Point Shopping Centre Morgan Street Wagga Wagga. 2650	215453	1991	Road Match	0m
	ASSOCIATIONS &/OR SOCIETIES.	Multi Purpose Stadium Bolton Park Stadium., Morgan St, Wagga Wagga. 2650	214075	1991	Road Match	0m
	CAKE SHOPS &/OR PASTRYCOOKS.	Pavlova Place Shop., 10B, South Point, Morgan St, Wagga Wagga. 2650	214381	1991	Road Match	0m
	ASSOCIATIONS &/OR SOCIETIES.	Royal Life Saving Society., Morgan St, Wagga Wagga. 2650	214078	1991	Road Match	0m
	ELECTRIC LIGHT FITTINGS MFRS. &/OR DIST.	Wagga Light Gallery South Point Shopping Centre., Morgan St, Wagga Wagga. 2650	214755	1991	Road Match	0m
	ELECTRIC LIGHT SPECIALISTS &/OR INSTALLERS &/OR DESIGNERS.	Wagga Light Gallery South Point Shopping Centre., Morgan St, Wagga Wagga. 2650	214757	1991	Road Match	0m
	HOME IMPROVEMENTS.	Wagga Light Gallery South Point Shopping Centre., Morgan St, Wagga Wagga. 2650	215346	1991	Road Match	0m
	LIGHTING EQUIPMENT - COMMERCIAL &/OR DOMESTIC - MFRS. &/OR IMPS. &/OR DIST.	Wagga Light Gallery South Point Shopping Centre., Morgan St, Wagga Wagga. 2650	215569	1991	Road Match	0m
	LIGHTING EQUIPMENT - INDUSTRIAL - MFRS. &/OR IMPS. &/OR DIST.	Wagga Light Gallery South Point Shopping Centre., Morgan St, Wagga Wagga. 2650	215570	1991	Road Match	0m
	ELECTRIC LAMP GLOBE &/OR TUBE MFRS. &/OR DIST.	Wagga Light Gallery. South Point Shopping Centre., Morgan St, Wagga Wagga. 2650	214751	1991	Road Match	0m
	SWIMMING POOL MAINTENANCE &/OR REPAIRS	Wagga Pool Shop, Shop 8, South Point Morgan St, Wagga Wagga. 2650	217633	1991	Road Match	0m
	SWIMMING POOL MFRS. &/OR CONSTRUCTION CONTRACTORS	Wagga Pool Shop, Shop 8, South Point Morgan St, Wagga Wagga. 2650	217638	1991	Road Match	0m
	ELECTRICAL CONTRACTORS.	Watson J. Electrical. Southpoint Shopping Centre., Morgan St, Wagga Wagga. 2650	214784	1991	Road Match	0m
	HEALTH CENTRES &/OR CLINICS	Workout Swimming & Recreation Centre., 9 Morgan St Wagga Wagga. 2650	215302	1991	Road Match	0m
	HEALTH CENTRES &/OR CLINICS	Workout Swimming & Recreation Centre., 9 Morgan Street, Wagga Wagga. 2650	215311	1991	Road Match	0m
	CARPET CLEANERS &/OR SHAMPOOERS	Bemrose Cleaning Service, Morgan St., Wagga Wagga 2650	163635	1982	Road Match	0m
	CLEANING CONTRACTORS - GENERAL	Bemrose Cleaning Service, Morgan St., Wagga Wagga 2650	163701	1982	Road Match	0m
	CLEANSER &/OR CLEANING PREPARATIONS MFRS. &/OR DIST	Bemrose Cleaning Service. Morgan St., Wagga Wagga 2650	163706	1982	Road Match	0m
	RESTAURANTS.	Colonial Restaurant, Morgan St., Wagga Wagga 2650	165004	1982	Road Match	0m
	FURNITURE &/OR FURNISHINGS - RETAIL	Morgan Street Furniture Co., Morgan St., Wagga Wagga 2650	164061	1982	Road Match	0m
	MOTELS	Noahs Town House Motel, Morgan St., Wagga Wagga 2650	164516	1982	Road Match	0m
	RESTAURANTS.	Noahs Town House Motel, Morgan St., Wagga Wagga 2650	165020	1982	Road Match	0m
	DRY CLEANERS & PRESSERS	South Point Dry Cleaners. Shop 5 South Point. Morgan St., Wagga Wagga 2650	163864	1982	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
20	ASSOCIATIONS, SOCIETIES, CLUBS &/OR SPORTING BODIES	Wagga Wagga Amateur Swimming & Life Saving Club, Morgan St., Wagga Wagga 2650	163375	1982	Road Match	0m
	MOTELS	Town House Motel, Morgan St. Wagga Wagga	593586	1970	Road Match	0m
	MOTELS	Club Motels Pty. Ltd., Morgan St., Wagga Wagga	230374	1961	Road Match	0m
	HOSTELS	Y.W.C.A. Hostel, 38 Morgan St., Wagga Wagga	230106	1961	Road Match	0m
	FRUITERERS & GREENGROCERS	Bateman, J., Morgan St. Wagga Wagga	173953	1950	Road Match	0m
	GROCERS & GENERAL STOREKEEPERS	Bateman, J., Morgan St. Wagga Wagga	174031	1950	Road Match	0m
	MENDING & DARNING SERVICES	Home Sewing Service, Morgan St. Wagga Wagga	175450	1950	Road Match	0m
	ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Rorrison, W., Morgan St. Wagga Wagga	173879	1950	Road Match	0m
	WELDERS-OXY & ELECTRIC	Rorrison, W., Morgan St. Wagga Wagga	176054	1950	Road Match	0m
21	ARCHITECTS	O'Halloran, S. & Associates, The Esplanade Wagga	592544	1970	Road Match	30m
	SOFT DRINK & CORDIAL MFRS.	Sheekeys (Wagga Wagga) Pty. Ltd., Esplanade Wagga Wagga	594016	1970	Road Match	30m
	BREWERS & MALSTERS	Tooth and Co. Ltd., The Esplanade Wagga Wagga	592689	1970	Road Match	30m
	AERATED WATER & CORDIAL MANUFACTURERS	Sheekey's (Wagga Wagga) Pty. Ltd., The Esplanade, Wagga Wagga	229325	1961	Road Match	30m
	BREWERS & MALSTERS	Tooth and Co. Ltd., The Esplanade, Wagga Wagga	229474	1961	Road Match	30m
	CORDIAL MANUFACTURERS	Sheekey's (Wagga Wagga) Pty. Ltd., The Esplanade., Wagga Wagga	173748	1950	Road Match	30m
22	BUILDERS & BUILDING CONTRACTORS	Morgan, J., Docker St. Wagga Wagga	173559	1950	Road Match	150m
	MAIL CONTRACTORS	Wise, J. T., Docker St. Wagga Wagga	175427	1950	Road Match	150m

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Dry Cleaners, Motor Garages & Service Stations

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Historical Business Directories

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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
1	MOTOR GARAGES & ENGINEERS	Mason Booth Garage Car Sales, 83 Docker St., Wagga Wagga	230489	1961	Premise Match	168m	South West
2	MOTOR GARAGES & SERVICE STATIONS.	BP Greensleeves Service Station., Docker St, Wagga Wagga. 2650	215910	1991	Road Intersection	255m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	BP Greensleeves Service Station, Docker St., Wagga Wagga 2650	164647	1982	Road Intersection	255m	South West
	MOTOR GARAGES & ENGINEERS	Greensleeves Service Station, Cnr. Docker and Darlow Sts. Wagga Wagga	593687	1970	Road Intersection	255m	South West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Greensleeves (C.O.R.) Service Station, Cnr. Docker & Darlow Sts, Wagga Wagga	230536	1961	Road Intersection	255m	South West
	MOTOR GARAGES & ENGINEERS	Greensleeves Service Station, Cnr. Docker and Darlow Sts., Wagga Wagga	230483	1961	Road Intersection	255m	South West
3	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Wagga Car Repairs. 207 Edward St., Wagga Wagga 2650	164682	1982	Premise Match	342m	South East
	MOTOR GARAGES & ENGINEERS	Wagga Car Repairs, 207 Edward St., Wagga Wagga	230501	1961	Premise Match	342m	South East
	MOTOR GARAGES & ENGINEERS	Bartholomew, J. H., 207 Edward St. Wagga Wagga	175586	1950	Premise Match	342m	South East
4	MOTOR GARAGES & SERVICE STATIONS.	Ampol Boomerang Service Station., Edward St, Wagga Wagga. 2650	215904	1991	Road Intersection	395m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Fiveways Service Station, Edward St., Wagga Wagga 2650	164654	1982	Road Intersection	395m	South West
	MOTOR GARAGES & ENGINEERS	Fiveways Service Station, Cnr. Edward & Shaw Sts. Wagga Wagga	593682	1970	Road Intersection	395m	South West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ampol Boomerang Service Station, Cnr. Docker & Edward Sts., Wagga Wagga	230529	1961	Road Intersection	395m	South West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Ampol Boomerang Service Station, Wagga Wagga	230594	1961	Road Intersection	395m	South West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Willer's Service Station, Cnr. Edward & Shaw Sts., Wagga Wagga	230552	1961	Road Intersection	395m	South West

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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
5	DRY CLEANERS & PRESSERS	South Point Dry Cleaners. Shop 5 South Point. Morgan St., Wagga Wagga 2650	163864	1982	Road Match	0m
6	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Murphy, P., 2 Alpha La., Wagga Wagga 2650	164674	1982	Road Match	218m
7	MOTOR GARAGES & SERVICE STATIONS.	Airport Service Station., Sturt Hway, Wagga Wagga. 2650	215901	1991	Road Match	313m
	MOTOR GARAGES & SERVICE STATIONS.	Fiveways Service Station., Edward St, Wagga Wagga. 2650	215925	1991	Road Match	313m
	MOTOR GARAGES & SERVICE STATIONS.	Ingram's Mobil Centre., Edward St, Wagga Wagga. 2650	215932	1991	Road Match	313m
	MOTOR GARAGES & SERVICE STATIONS.	Wagga Mobil Service Centre., Edward St, Wagga Wagga. 2650	215955	1991	Road Match	313m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Airport Service Station, Sturt H'way., Wagga Wagga 2650	164638	1982	Road Match	313m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Ampol Boomerang Service Station, Edward St., Wagga Wagga 2650	164642	1982	Road Match	313m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Golden Fleece South Wagga, Edward St., Wagga Wagga 2650	164658	1982	Road Match	313m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Wagga Mobil Service Centre, Edward St., Wagga Wagga 2650	164683	1982	Road Match	313m
	MOTOR GARAGES & ENGINEERS	Ampol Boomerang Service Station, Edward St. Wagga Wagga	593675	1970	Road Match	313m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Boomerang Service Station, Edward St. Wagga Wagga	593735	1970	Road Match	313m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Service Station, Sturt Hghwy. Wagga Wagga	593736	1970	Road Match	313m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Parkview Service Station, Edward St. Wagga Wagga	593741	1970	Road Match	313m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Tarcutta Road Service Station, Sturt Hghwy. Wagga Wagga	593744	1970	Road Match	313m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Auto Service Centre, Edward St., Wagga Wagga	230530	1961	Road Match	313m
	MOTOR GARAGES & ENGINEERS	Golden Fleece Service Station, Edward St., Wagga Wagga	230479	1961	Road Match	313m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Golden Fleece Service Station, Edward St., Wagga Wagga	230534	1961	Road Match	313m
	MOTOR GARAGES & ENGINEERS	Huthwaite, W. G. & Co. (Motors) Pty. Ltd., Edward St., Wagga Wagga	230486	1961	Road Match	313m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Huthwaite, W. G. & Co. (Motors) Pty. Ltd., Edward St., Wagga Wagga	230540	1961	Road Match	313m
	MOTOR GARAGES & ENGINEERS	Payne's Service Station, Edward St., Wagga Wagga	230493	1961	Road Match	313m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Payne's Service Station, Edward St., Wagga Wagga	230544	1961	Road Match	313m
8	DRY CLEANERS, PRESSERS & DYERS	Byrnes Koorinal, 7a Gurwood St. Wagga Wagga	592979	1970	Road Match	386m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
8	MOTOR GARAGES & ENGINEERS	Shell Service Station, Gurwood St. Wagga Wagga	593700	1970	Road Match	386m

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Aerial Imagery 2022

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Aerial Imagery 2013

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Aerial Imagery 2007

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Aerial Imagery 1990

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Aerial Imagery 1980

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Aerial Imagery 1971

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Aerial Imagery 1966

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Aerial Imagery 1953

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Data Source Aerial Imagery:
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Coordinate System:
GDA 1994 MGA Zone 56

Date: 30 September 2022

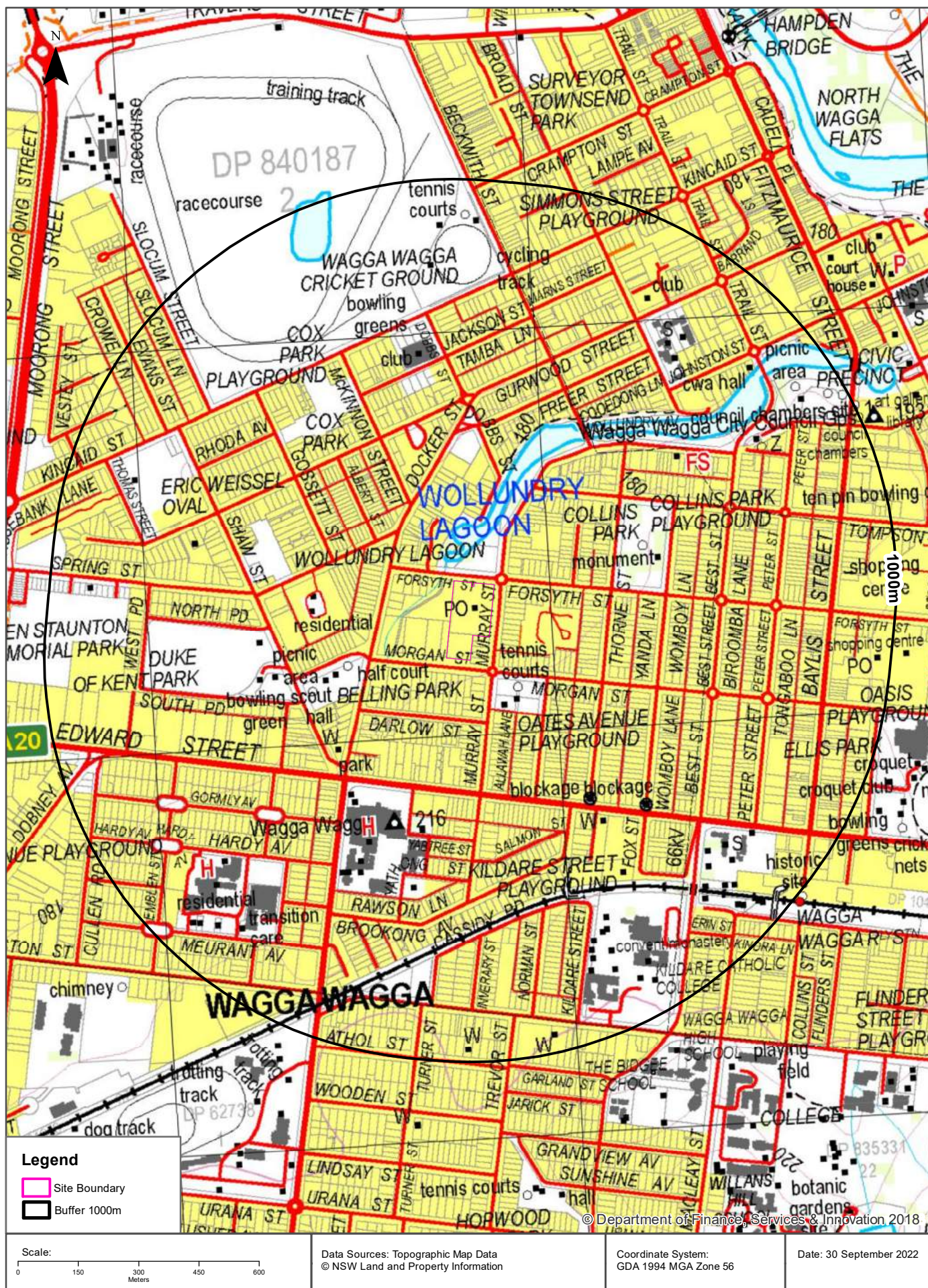
Aerial Imagery 1944

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



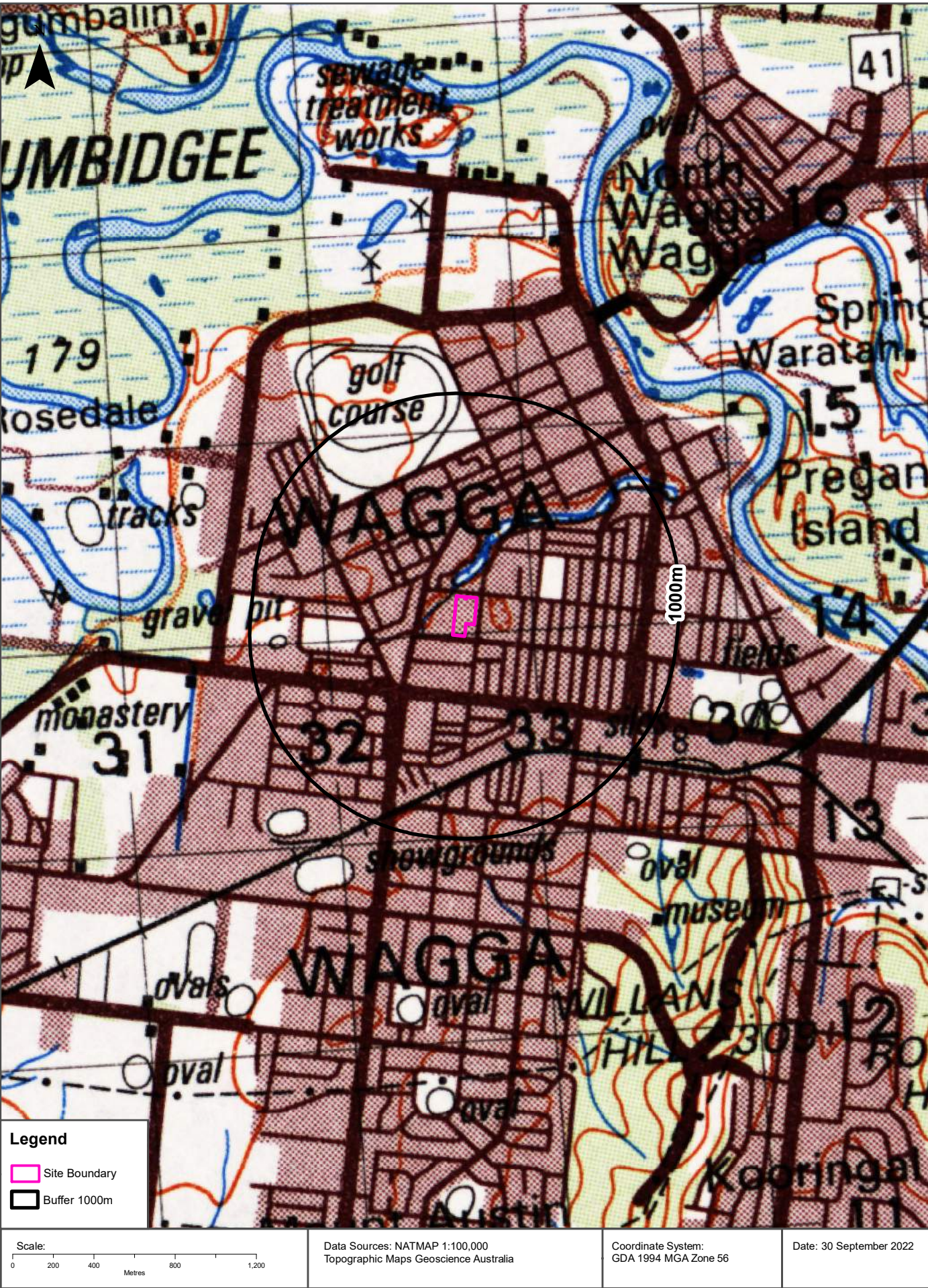
Topographic Map 2015

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

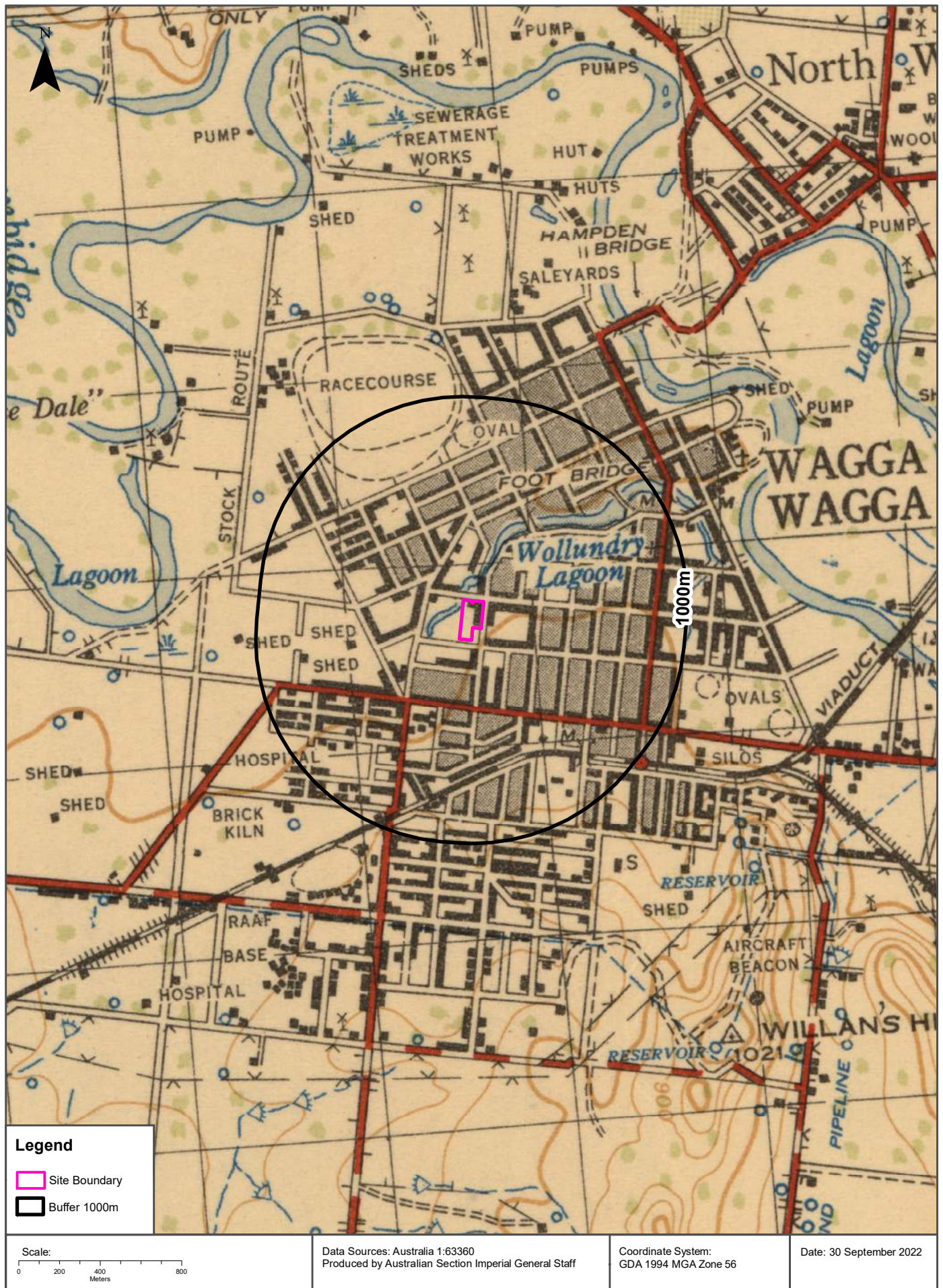


Historical Map 1982

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

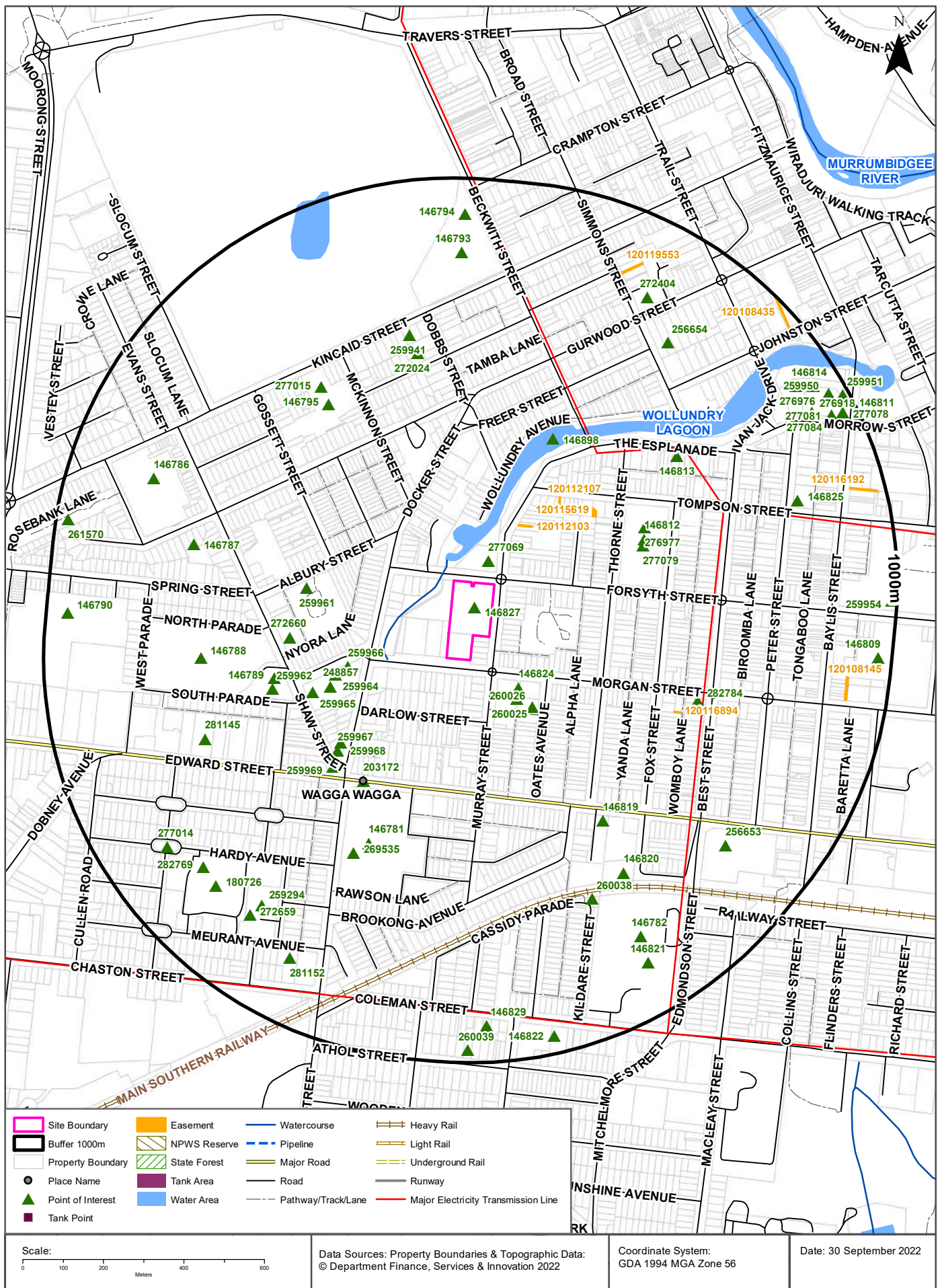


185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Topographic Features

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Topographic Features

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
146827	Post Office	WAGGA WAGGA SOUTH POST OFFICE	0m	On-site
277069	Park	WOLLUNDRY LAGOON	57m	North
146824	Sports Court	TENNIS COURTS	137m	South East
260025	Community Facility	SOUTH WAGGA TENNIS CLUB	150m	South East
260026	Park	OATES AVENUE PLAYGROUND	193m	South East
259966	Sports Court	HALF COURT	246m	West
259964	Community Facility	WAGGA WAGGA RESCUE SQUAD	279m	South West
248857	Park	BELLING PARK	297m	South West
259968	Child Care Centre	ST LUKES PRESCHOOL	337m	South West
259965	Picnic Area	Picnic Area	343m	South West
259967	Place Of Worship	ANGLICAN CHURCH	355m	South West
259961	Retirement Village	GUMLEIGH GARDENS	362m	West
203172	City	WAGGA WAGGA	369m	South West
277079	Monument	WAGGA WAGGA PALAZZI WAR MEMORIAL	381m	East
146812	Park	COLLINS PARK	388m	North East
146898	Manmade Waterbody	WOLLUNDRY LAGOON	391m	North East
259969	Park	Park	391m	South West
272660	Nursing Home	GUMLEIGH GARDENS HOSTEL	392m	West
276977	Park	COLLINS PARK PLAYGROUND	399m	North East
146789	Community Facility	WAGGA WAGGA WOMENS BOWLING CLUB	430m	West
259962	Sports Field	BOWLING GREEN	439m	West
146781	General Hospital	WAGGA WAGGA HOSPITAL	499m	South West
146819	Place Of Worship	SALVATION ARMY CHURCH	517m	South East
269535	Community Medical Centre	WAGGA WAGGA COMMUNITY HEALTH CENTRE	536m	South West
146795	Park	COX PARK	536m	North West
282784	General Hospital	WAGGA ENDOSCOPY CENTRE	541m	East
146813	Fire Station	WAGGA WAGGA FIRE STATION	554m	North East
272024	Club	WAGGA RSL CLUB	571m	North
277015	Park	COX PARK PLAYGROUND	584m	North West
146788	Park	DUKE OF KENT PARK	609m	West
259941	Sports Field	BOWLING GREENS	619m	North

Map Id	Feature Type	Label	Distance	Direction
281145	General Hospital	CALVARY DAY PROCEDURE CENTRE	632m	South West
146820	Community Facility	WAGGA WAGGA MOTOR REGISTRY	651m	South East
146787	Community Facility	WAGGA WAGGA PCYC	652m	West
260038	Park	KILDARE STREET PLAYGROUND	665m	South East
256654	Primary School	WAGGA WAGGA PUBLIC SCHOOL	739m	North East
259294	Nursing Home	MARY POTTER NURSING HOME	767m	South West
146825	Sports Centre	TEN PIN BOWLING CENTRE	780m	East
256653	Primary School	SOUTH WAGGA PUBLIC SCHOOL	783m	South East
146786	Sports Field	ERIC WEISSEL OVAL	787m	North West
282769	General Hospital	REGIONAL IMAGING CARDIOVASCULAR CENTRE	797m	South West
272659	Nursing Home	WAGGA WAGGA TRANSITIONAL AGED CARE	803m	South West
180726	General Hospital	CALVARY HEALTH CARE RIVERINA	805m	South West
146782	Convent/Monastery	Convent/Monastery	806m	South East
272404	Club	WAGGA WAGGA COMMERCIAL CLUB	808m	North East
146793	Sports Field	WAGGA WAGGA CRICKET GROUND	815m	North
277014	Park	HARDY AVENUE PLAYGROUND	838m	South West
281152	General Hospital	RIVERINA DAY SURGERY	841m	South West
146821	High School	KILDARE CATHOLIC COLLEGE	870m	South East
277084	Park	WAGGA WAGGA NATIONAL SERVICEMENS MONUMENT	895m	North East
276976	Picnic Area	VICTORY MEMORIAL GARDENS PLAYGROUND	896m	North East
146829	Child Care Centre	KOOKABURRA PRE-SCHOOL	908m	South
146794	Sports Court	TENNIS COURTS	910m	North
146814	Park	VICTORY MEMORIAL GARDENS	932m	North East
277081	Monument	WAGGA WAGGA RAAF MEMORIAL	937m	North East
146790	Park	STAUNTON PARK	947m	West
146822	Place Of Worship	PRESBYTERIAN CHURCH	955m	South
259950	Monument	WAGGA WAGGA VIETNAM WAR MEMORIAL	956m	North East
277078	Monument	VICTORY MEMORIAL GARDENS CENOTAPH	964m	North East
146809	Post Office	WAGGA WAGGA POST OFFICE	965m	East
260039	Place Of Worship	LUTHERAN CHURCH	969m	South
261570	Retirement Village	ROSEBANK RETIREMENT VILLAGE	970m	West
259951	Monument	WAGGA WAGGA WAR MEMORIAL	985m	North East
259954	Shopping Centre	STURT MALL	987m	East
146811	Local Government Chambers	WAGGA WAGGA CITY COUNCIL	997m	North East
276918	Museum	MUSEUM OF THE RIVERINA	997m	North East

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Topographic Features

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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)

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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
120112103	Primary	Undefined		157m	North East
120112107	Primary	Undefined		252m	North East
120115619	Primary	Undefined		296m	North East
120116894	Primary	Undefined		494m	South East
120119553	Primary	Undefined		834m	North East
120108145	Primary	Undefined		893m	East
120116192	Primary	Undefined		913m	East
120108435	Primary	Undefined		969m	North East

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

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Topographic Features

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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

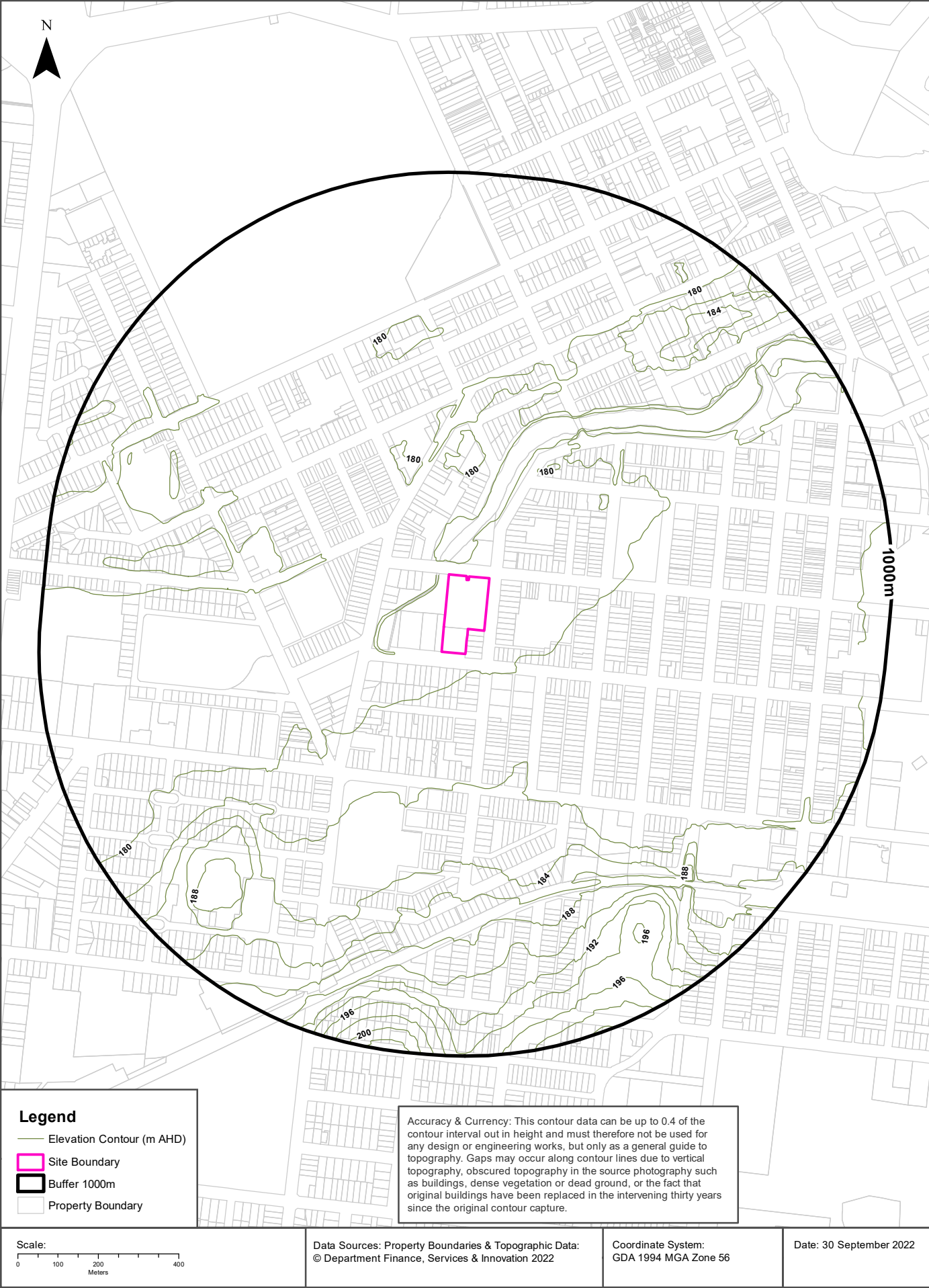
What NPWS Reserves exist within the dataset buffer?

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)

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Hydrogeology & Groundwater

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Porous, extensive highly productive aquifers	0m	On-site

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
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Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

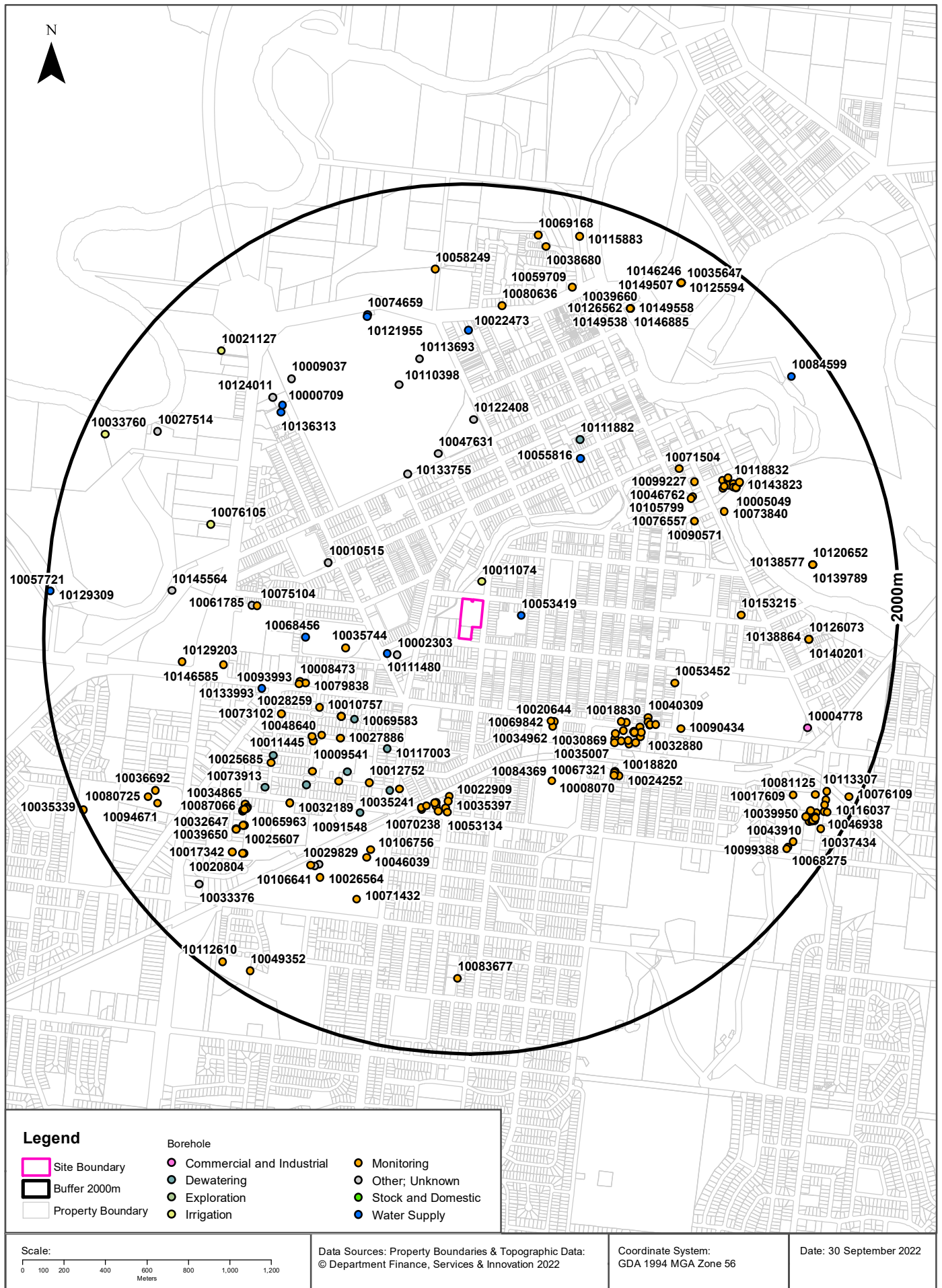
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

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

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Hydrogeology & Groundwater

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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
10011074	GW401806	Irrigation	Unknown	16/03/2000	47.00		AHD		8.000	13.80	89m	North
10053419	GW025777	Water Supply	Functioning	01/04/1965	9.10		AHD				191m	East
10002303	GW021985	Other	Unknown	01/08/1964	14.60		AHD				306m	South West
10111480	GW402670	Water Supply	Unknown	22/03/2004	40.00		AHD		3.000	12.00	351m	South West
10035744	GW400456	Monitoring	Unknown	11/01/1995	15.10		AHD			2.52	546m	West
10069842	GW416213	Monitoring	Functional	31/05/2011	13.00		AHD			12.70	553m	South East
10020644	GW416212	Monitoring	Functional	31/05/2011	13.00		AHD			12.75	567m	South East
10034962	GW416211	Monitoring	Functional	13/06/2013	12.70		AHD			9.80	579m	South East
10117003	GW401093	Dewatering	Unknown	29/07/1998	45.00		AHD				634m	South West
10069583	GW401094	Dewatering	Unknown	23/07/1998	42.00		AHD				637m	South West
10133755	GW047341	Other	Unknown	01/04/1978	15.80		AHD	0-500 ppm			656m	North West
10010515	GW400103	Unknown	Unknown		15.20		AHD		5.100		668m	West
10010757	GW401750	Monitoring	Unknown	10/09/1998	6.50		AHD				679m	South West
10019361	GW401748	Monitoring	Unknown	10/09/1998	5.50		AHD				679m	South West
10033625	GW401749	Monitoring	Unknown	10/09/1998	7.00		AHD				679m	South West
10047631	GW026741	Other	Unknown	01/10/1966	14.00		AHD	Good			707m	North
10068456	GW402663	Water Supply	Unknown	25/03/2004	36.00		AHD		1.300	12.00	737m	West
10027886	GW401747	Monitoring	Unknown	10/09/1998	5.50		AHD				746m	South West
10061064	GW401746	Monitoring	Unknown	10/09/1998	3.20		AHD				746m	South West
10028259	GW404680	Monitoring	Unknown	11/06/2008	5.50		AHD				748m	South West
10022909	GW404811	Monitoring	Unknown	31/05/2005	20.00		AHD			14.90	765m	South
10079838	GW414396	Monitoring	Functional	15/04/2010	14.50		AHD			10.50	768m	West
10041314	GW401740	Monitoring	Unknown	10/09/1998	5.50		AHD				782m	South
10084369	GW400460	Monitoring	Unknown	12/01/1995	14.90		AHD				787m	South East
10035397	GW404812	Monitoring	Unknown	02/09/2008	20.00		AHD			13.60	789m	South
10008473	GW414394	Monitoring	Functional	15/04/2010	14.50		AHD				793m	West
10035264	GW404821	Monitoring	Unknown	04/09/2008	26.00		AHD			14.60	799m	South
10093993	GW414395	Monitoring	Functional	15/04/2010	14.50		AHD			11.00	799m	West
10008270	GW404816	Monitoring	Unknown	15/06/2005	19.50		AHD			17.00	803m	South
10114379	GW404814	Monitoring	Unknown	15/06/2005	19.50		AHD			17.00	803m	South

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
10142731	GW401092	Dewatering	Unknown	06/07/1998	72.00		AHD	1548		1.87	805m	South West
10048640	GW400475	Monitoring	Unknown	07/06/1995			AHD				809m	South West
10012752	GW401739	Monitoring	Unknown	10/09/1998	7.50		AHD				818m	South West
10048645	GW403861	Monitoring	Unknown	14/02/2007	15.00		AHD			12.82	818m	South East
10057515	GW404820	Monitoring	Unknown	04/09/2008	20.00		AHD			15.60	819m	South
10033729	GW404818	Monitoring	Unknown	02/06/2005	20.00		AHD			17.30	822m	South
10107922	GW404815	Monitoring	Unknown	04/09/2008	21.00		AHD			16.80	823m	South
10107411	GW403858	Monitoring	Unknown	15/02/2007	15.00		AHD			13.73	828m	South East
10055816	GW416922	Water Supply	Functioning	12/04/2018	59.00		AHD			0.00	830m	North East
10048615	GW404822	Monitoring	Unknown	03/09/2008	21.00		AHD			20.00	836m	South
10070238	GW404817	Monitoring	Unknown	04/09/2008	21.00		AHD			16.80	839m	South
10018830	GW403862	Monitoring	Unknown	16/02/2007	15.00		AHD			12.77	840m	South East
10118387	GW401091	Dewatering	Unknown	04/07/1998	73.00		AHD	972		3.01	840m	South West
10053134	GW404819	Monitoring	Unknown	03/09/2008	21.50		AHD			16.20	841m	South
10030869	GW403859	Monitoring	Unknown	15/02/2006	15.00		AHD			13.27	842m	South East
10035241	GW404813	Monitoring	Unknown	03/09/2008	24.00		AHD			21.30	845m	South
10072688	GW416078	Monitoring	Functional	03/05/2012	14.50		AHD			12.00	850m	South East
10011445	GW400060	Monitoring	Unknown	24/05/1995	61.00		AHD				851m	South West
10035007	GW403860	Monitoring	Unknown	14/02/2006	15.00		AHD			12.43	853m	South East
10009541	GW401745	Monitoring	Unknown	10/09/1998	4.50		AHD				858m	South West
10122408	GW038137	Other	Unknown		14.00		AHD				864m	North
10064209	GW402813	Monitoring	Unknown		15.00		AHD	1000			871m	South East
10057432	GW402944	Monitoring	Unknown	23/10/2003	13.00		AHD			10.50	894m	South East
10102738	GW402942	Monitoring	Unknown	23/10/2003	12.00		AHD			11.00	894m	South East
10079421	GW402939	Monitoring	Unknown	20/01/2004	14.00		AHD			12.50	895m	South East
10008505	GW402943	Monitoring	Unknown	23/10/2003	13.00		AHD			10.50	896m	South East
10073079	GW402940	Monitoring	Unknown	22/10/2003	14.00		AHD			12.50	896m	South East
10075052	GW402937	Monitoring	Unknown	20/01/2004	13.00		AHD			11.00	896m	South East
10101356	GW402938	Monitoring	Unknown	20/01/2004	14.00		AHD			11.00	896m	South East
10113032	GW402945	Monitoring	Unknown	30/10/2003	13.00		AHD			10.50	897m	South East
10095562	GW416077	Monitoring	Functional	02/05/2012	14.00		AHD				898m	South East
10069886	GW402941	Monitoring	Unknown	22/10/2003	14.00		AHD			12.50	899m	South East
10069834	GW401744	Monitoring	Unknown	10/09/1998	5.00		AHD				901m	South West
10029434	GW416075	Monitoring	Functional	03/05/2012	15.00		AHD			12.00	907m	South East
10111882	GW032923	Dewatering	Unknown	01/03/1970	11.60		AHD				907m	North East

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
10030323	GW400461	Monitoring	Unknown	10/01/1995	13.00		AHD				912m	South East
10040309	GW403419	Monitoring	Unknown	13/05/2005	15.00		AHD				917m	South East
10109022	GW403856	Monitoring	Unknown	14/02/2006	14.00		AHD			13.33	926m	South East
10063212	GW403420	Monitoring	Unknown	13/05/2005	15.00		AHD				927m	South East
10073102	GW401096	Monitoring	Unknown		120.00		AHD				929m	South West
10111254	GW403857	Monitoring	Unknown	15/02/2006	14.00		AHD			13.16	933m	South East
10032880	GW403855	Monitoring	Unknown	13/11/2007	13.50		AHD			12.89	934m	South East
10018820	GW403377	Monitoring	Unknown	20/04/2005	14.60		AHD			169.36	943m	South East
10042595	GW403863	Monitoring	Unknown	14/02/2006	15.00		AHD			12.67	943m	South East
10111252	GW403864	Monitoring	Unknown	14/02/2005	14.00		AHD			12.57	944m	South East
10067321	GW403378	Monitoring	Unknown	20/04/2005	15.00		AHD			169.30	947m	South East
10008070	GW403380	Monitoring	Unknown	10/05/2005	15.00		AHD			169.30	951m	South East
10080598	GW403379	Monitoring	Unknown	20/04/2005	15.00		AHD			169.40	953m	South East
10102362	GW404679	Monitoring	Unknown	11/06/2008	9.00		AHD				954m	South West
10115653	GW403417	Monitoring	Unknown	17/05/2005	15.00		AHD				967m	South East
10091548	GW401095	Dewatering	Unknown	03/07/1998	73.00		AHD				968m	South West
10024252	GW403381	Monitoring	Unknown	10/05/2005	15.00		AHD			169.30	974m	South East
10053452	GW403418	Monitoring	Unknown	16/05/2005	28.00		AHD				975m	East
10133993	GW020740	Water Supply	Unknown	01/05/1963	23.80		AHD	0-500 ppm			978m	West
10075104	GW403185	Monitoring	Unknown	27/04/1995	14.80		AHD		12.750	6.00	980m	West
10061785	GW026564	Other	Unknown	01/04/1967	12.80		AHD				1006m	West
10143058	GW401087	Dewatering	Unknown	09/07/1998	73.00		AHD	2640	0.330	1.51	1020m	South West
10137277	GW401089	Dewatering	Unknown	15/07/1998	71.00		AHD	846		0.32	1058m	South West
10110398	GW400407	Other	Unknown	27/10/1997	20.60		AHD		11.600	10.68	1075m	North
10090434	GW400183	Monitoring	Removed	18/03/1997	11.80		AHD	1100		8.70	1083m	South East
10025685	GW401743	Monitoring	Unknown	10/09/1998	7.00		AHD				1085m	South West
10076557	GW416292	Monitoring	Functional	07/01/2010	20.50		AHD			10.65	1089m	North East
10090571	GW414485	Monitoring	Functional	07/01/2010	20.50		AHD			11.40	1089m	North East
10106756	GW402858	Monitoring	Abandoned	17/06/2004			AHD				1106m	South West
10105799	GW414487	Monitoring	Functioning	08/01/2010	15.10		AHD			11.60	1118m	North East
10046762	GW416294	Monitoring	Functional	07/01/2010	16.00		AHD				1128m	North East
10032189	GW401742	Monitoring	Unknown	10/09/1998	6.00		AHD				1137m	South West
10057210	GW401741	Monitoring	Unknown	10/09/1998	6.50		AHD				1137m	South West
10071504	GW414447	Monitoring	Unknown	04/09/2007	14.00		AHD				1137m	North East

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
10146585	GW031474	Monitoring	Functional	01/10/1966	24.40	177.60	AHD				1140m	West
10046039	GW402857	Monitoring	Abandoned	17/06/2004	10.00		AHD				1147m	South West
10099227	GW414488	Monitoring	Functioning	07/01/2010	19.40		AHD			11.20	1170m	North East
10113693	GW403612	Unknown	Unknown	03/11/2006	56.00		AHD			16.50	1173m	North
10073913	GW401090	Dewatering	Unknown	17/07/1998	73.00		AHD				1179m	South West
10073840	GW414486	Monitoring	Functioning	08/01/2010	20.50		AHD			10.65	1240m	North East
10153215	GW417536	Monitoring	Functioning	05/09/2010	16.00		AHD				1246m	East
10136313	GW402575	Water Supply	Unknown	19/06/2003	39.50		AHD	303	3.000	14.00	1253m	North West
10076105	GW020276	Irrigation	Unknown	01/05/1963	9.80		AHD	Good			1266m	West
10000709	GW064411	Water Supply	Unknown	01/10/1987	10.60		AHD				1274m	North West
10143181	GW414676	Monitoring	Unknown	23/01/2008	13.00		AHD	378	1.000	10.07	1276m	North East
10029829	GW033948	Unknown	Unknown	01/09/1967	106.70		AHD	Fresh			1282m	South West
10151103	GW417742	Monitoring	Functioning	27/09/2011	16.70		AHD				1286m	North East
10151737	GW417745	Monitoring	Functioning	21/09/2011	23.80		AHD				1286m	North East
10117753	GW414675	Monitoring	Unknown	23/01/2008	12.60		AHD	2250	1.000	9.94	1292m	North East
10022473	GW020474	Water Supply	Non-functional	01/05/1963	9.40	178.53	AHD				1295m	North
10106641	GW414331	Other	Functioning	04/06/2008	106.00		AHD		3.791	15.00	1300m	South West
10034865	GW401232	Monitoring	Unknown	27/03/2000	4.00		AHD				1305m	South West
10066433	GW401240	Monitoring	Unknown	28/03/2000	20.22		AHD				1305m	South West
10109041	GW414473	Monitoring	Functioning	27/06/2010	14.60		AHD			6.00	1307m	South West
10119512	GW414673	Monitoring	Unknown	23/01/2008	14.00		AHD	7760	1.000	9.79	1307m	North East
10072392	GW401241	Monitoring	Unknown	28/03/2000	5.10		AHD				1312m	South West
10118832	GW414674	Monitoring	Unknown	23/01/2008	12.00		AHD	1775	1.000	9.81	1317m	North East
10150956	GW417741	Monitoring	Functioning	28/09/2011	14.20		AHD				1321m	North East
10102973	GW401242	Monitoring	Unknown	28/03/2000	15.00		AHD				1323m	South West
10127452	GW414670	Monitoring	Unknown	23/01/2008	12.00		AHD	4350	1.000	8.97	1325m	North East
10087066	GW401243	Monitoring	Unknown	27/03/2000	8.10		AHD				1327m	South West
10127025	GW414672	Monitoring	Unknown	23/01/2008	5.80		AHD	1912	1.000	3.46	1330m	North East
10121473	GW414671	Monitoring	Unknown	23/01/2008	14.70		AHD	408	1.000	9.00	1332m	North East
10005049	GW015092	Commercial and Industrial	Unknown	01/03/1957	7.90		AHD				1333m	North East
10026564	GW400444	Monitoring	Unknown	17/02/1998			AHD				1333m	South West
10124011	GW053714	Other	Unknown		28.00		AHD				1333m	North West
10111379	GW020219	Water Supply	Unknown	01/05/1963	70.10		AHD	Good			1335m	South West
10129203	GW400441	Monitoring	Unknown	29/04/1994	10.50		AHD				1336m	West

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
10133098	GW414669	Monitoring	Unknown	23/01/2008	13.00		AHD	2358	1.000	9.04	1336m	North East
10150741	GW417743	Monitoring	Functioning	23/09/2011	21.00		AHD				1336m	North East
10009037	GW047340	Other	Unknown	01/01/1977	12.50		AHD				1342m	North West
10071432	GW400445	Monitoring	Unknown	29/04/1994	10.00		AHD				1352m	South
10143823	GW414668	Monitoring	Unknown	23/01/2008	13.00		AHD	1528	1.000	9.18	1358m	North East
10151980	GW417744	Monitoring	Functioning	22/09/2011	22.80		AHD				1362m	North East
10025607	GW401236	Monitoring	Unknown	29/03/2000	15.15		AHD				1372m	South West
10065963	GW401237	Monitoring	Unknown	29/03/2000	4.05		AHD				1376m	South West
10145564	GW031475	Unknown	Unknown	01/10/1966	23.80	185.39	AHD				1397m	West
10032647	GW401234	Monitoring	Unknown	29/03/2000	15.15		AHD				1413m	South West
10039650	GW401235	Monitoring	Unknown	29/03/2000	4.05		AHD				1416m	South West
10080636	GW404279	Monitoring	Functioning	13/12/2007	15.00		AHD				1424m	North
10121955	GW039501	Water Supply	Unknown	29/04/1993	74.00	179.00	AHD	128	200.000	8.40	1434m	North
10074659	GW400621	Water Supply	Unknown	29/04/1993	74.00		AHD		200.000	8.40	1443m	North
10020804	GW401239	Monitoring	Unknown	31/03/2000	15.15		AHD				1466m	South West
10046450	GW401238	Monitoring	Unknown	31/03/2000	4.05		AHD				1470m	South West
10017342	GW401233	Monitoring	Unknown	30/03/2000	20.30		AHD				1501m	South West
10059709	GW404280	Monitoring	Functioning	13/12/2007	15.00		AHD				1572m	North
10039660	GW273167	Unknown	Unknown			177.24	AHD		0.500	12.75	1577m	North East
10126562	GW273167	Unknown	Unknown	01/06/2010		177.24	AHD		0.500	12.75	1577m	North East
10146885	GW273167	Monitoring	Unknown	01/06/2010	81.00	177.24	AHD		0.500	12.75	1577m	North East
10149538	GW273167	Unknown	Unknown			177.24	AHD		0.500	12.75	1577m	North East
10149558	GW273167	Unknown	Unknown			177.24	AHD		0.500	12.75	1577m	North East
10149668	GW273167	Unknown	Unknown			178.29	AHD		0.500	12.75	1578m	North East
10149672	GW273167	Unknown	Unknown			178.29	AHD		0.500	12.75	1578m	North East
10126073	GW025184	Monitoring	Unknown	01/12/1968	38.10	179.29	AHD				1580m	East
10138864	GW025184	Monitoring	Unknown	01/12/1968	38.10	179.29	AHD				1580m	East
10140201	GW025184	Monitoring	Unknown	01/12/1968	38.10	179.29	AHD				1580m	East
10058249	GW404273	Monitoring	Functioning	13/12/2007	8.50		AHD				1594m	North
10120652	GW025176	Monitoring	Unknown	01/10/1969	43.20	179.23	AHD				1597m	East
10138577	GW025176	Monitoring	Unknown	01/10/1969	43.20	179.23	AHD				1597m	East
10139789	GW025176	Monitoring	Unknown	01/10/1969	43.20	179.23	AHD				1597m	East
10036692	GW416246	Monitoring	Functional	22/02/2008	10.00		AHD			8.20	1634m	South West
10083677	GW400459	Monitoring	Unknown	11/01/1995	17.20		AHD				1639m	South
10004778	GW030711	Commercial and Industrial	Proposed	01/04/1976			AHD				1649m	East

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
10094671	GW416247	Monitoring	Functional	22/02/2008	10.00		AHD			8.00	1654m	South West
10021127	GW039498	Irrigation	Removed	15/12/1992	72.00	179.00	AHD		4.760	7.90	1666m	North West
10027514	GW039494	Unknown	Functioning	06/12/1992	83.50	179.00	AHD		200.000	10.30	1676m	North West
10080725	GW416245	Monitoring	Functional	22/02/2008	10.00		AHD			8.10	1681m	South West
10017609	GW403373	Monitoring	Unknown	19/04/2005	11.30		AHD			171.26	1712m	South East
10033376	GW400443	Unknown	Unknown	02/05/1994	7.30		AHD				1724m	South West
10038680	GW404276	Monitoring	Functioning	14/12/2007	10.00		AHD				1734m	North
10069168	GW404275	Monitoring	Functioning	14/12/2007	9.80		AHD				1784m	North
10149533	GW273168	Unknown	Unknown			178.29	AHD		3.000	14.40	1803m	North East
10149559	GW273168	Unknown	Unknown			178.29	AHD		3.000	14.40	1803m	North East
10081125	GW403375	Monitoring	Unknown	19/04/2005	11.20		AHD			171.25	1804m	South East
10035647	GW273168	Unknown	Unknown			178.33	AHD		3.000	14.40	1806m	North East
10125594	GW273168	Unknown	Unknown	22/06/2010		178.33	AHD		3.000	14.40	1806m	North East
10146246	GW273168	Monitoring	Unknown	22/06/2010	84.00	178.33	AHD		3.000	14.40	1806m	North East
10149507	GW273168	Unknown	Unknown			178.33	AHD		3.000	14.40	1806m	North East
10149972	GW273168	Unknown	Unknown			178.33	AHD		3.000	14.40	1806m	North East
10106283	GW416608	Monitoring	Functional	06/04/2011	18.00		AHD				1815m	South East
10039950	GW404737	Monitoring	Functional	29/05/2007	18.00		AHD			17.70	1817m	South East
10115883	GW404281	Monitoring	Functioning	12/12/2007	20.00		AHD				1817m	North
10104088	GW416605	Monitoring	Functional	23/03/2011	14.00		AHD				1821m	South East
10099388	GW403372	Monitoring	Unknown	19/04/2005	14.00		AHD			171.26	1823m	South East
10037719	GW416604	Monitoring	Functional	22/03/2011	18.00		AHD				1824m	South East
10068275	GW403376	Monitoring	Unknown	19/04/2005	12.50		AHD			171.33	1825m	South East
10078405	GW403371	Monitoring	Unknown	19/04/2005	11.40		AHD			171.29	1829m	South East
10005711	GW416606	Monitoring	Functional	25/03/2011	16.00		AHD				1835m	South East
10084599	GW416058	Water Supply	Functioning	01/02/2005	15.60		AHD		1.500	8.40	1838m	North East
10043910	GW416603	Monitoring	Functional	22/03/2011	14.00		AHD				1842m	South East
10113307	GW404282	Monitoring	Functional	24/01/2006	12.50		AHD			10.20	1849m	South East
10009939	GW416607	Monitoring	Functional	26/03/2011	12.00		AHD				1852m	South East
10065962	GW404734	Monitoring	Functional	14/10/2008	27.00		AHD			25.00	1852m	South East
10077819	GW416602	Monitoring	Functional	22/03/2011	19.00		AHD				1853m	South East
10079476	GW404736	Monitoring	Functional	28/05/2007	18.00		AHD			14.00	1854m	South East
10100485	GW416609	Monitoring	Functional	06/04/2011	15.00		AHD				1857m	South East
10057136	GW404735	Monitoring	Functional	28/05/2007	17.00		AHD			15.00	1862m	South East

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
10069878	GW404283	Monitoring	Functional	25/01/2006	10.00		AHD				1862m	South East
10099391	GW404284	Monitoring	Functional	28/01/2006	11.50		AHD				1869m	South East
10046938	GW404285	Monitoring	Functional	11/03/2008	13.00		AHD				1881m	South East
10049352	GW400450	Monitoring	Unknown	08/03/1994	4.10		AHD				1894m	South West
10116037	GW404286	Monitoring	Functional	24/01/2006	11.50		AHD				1895m	South East
10033760	GW020368	Irrigation	Non-functional	01/03/1966	10.30		AHD				1896m	North West
10037434	GW403541	Monitoring	Unknown	26/01/2006	9.00		AHD				1908m	South East
10112610	GW400449	Monitoring	Unknown	08/03/1994	4.30		AHD				1931m	South West
10076109	GW403542	Monitoring	Unknown	26/01/2006	12.10		AHD				1955m	South East
10057721	GW064452	Water Supply	Unknown	01/09/1987	18.00		AHD	Good			1979m	West
10129309	GW020282	Water Supply	Functioning	01/05/1963	11.30	177.59	AHD	0-500 ppm			1979m	West
10035339	GW400457	Monitoring	Unknown	10/01/1995	13.70		AHD				1989m	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

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Driller's Logs

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

NGIS Bore ID	Drillers Log	Distance	Direction
10011074	0.00m-2.50m CLAY, BROWN 2.50m-5.00m GRAVEL & SAND, DIRTY 5.00m-10.50m SILTY CLAY, MULTI COLOUR 10.50m-13.00m SAND & CLAY, GREY 13.00m-26.00m GRAVEL & SAND, BIG 26.00m-37.00m SAND & CLAY, GREY DIRTY 37.00m-41.00m CLAY, GREY 41.00m-47.00m SAND, CLEAN GREY 47.00m-53.00m CLAY, FIRM GREY GREEN 53.00m-55.60m SAND, DIRTY GREY 55.60m-58.00m CLAY, WHITISH 58.00m-58.60m GRANITE / BOTTOM, VERY HARD	89m	North
10053419	0.00m-4.57m Loam Black River 4.57m-9.14m Gravel River Water Bearing	191m	East
10002303	0.00m-5.49m Clay Black Loamy 5.49m-7.92m Sand Fine Water Supply 7.92m-14.63m Gravel River Water Supply	306m	South West
10111480	0.00m-0.40m Topsoil 0.40m-6.00m Brown clays 6.00m-8.00m Gravels 8.00m-15.00m Grey clays 15.00m-18.00m Gravesl 18.00m-19.00m Grey clays 19.00m-30.00m Gravesl 30.00m-40.00m Shales	351m	South West
10035744	0.00m-1.00m Silty Clay 1.00m-3.00m Clay 3.00m-4.00m Clay 4.00m-5.00m Clay 5.00m-9.00m V. Weathered Lithic Sandstone 9.00m-12.00m Weathered Siltstone 12.00m-15.00m Weathered Phyllite	546m	West
10069842	0.00m-5.00m clay, hard 5.00m-10.00m sandy clay 10.00m-13.00m clay, sandy silty, light brown	553m	South East
10020644	0.00m-3.00m sandy clay, light 3.00m-8.00m sandy clay, brown 8.00m-13.00m sandy clay, light brown with more sand	567m	South East
10034962	0.00m-4.00m clay, light brown 4.00m-9.00m clay, dark brown 9.00m-12.70m sandy clay	579m	South East
10117003	0.00m-2.00m SILTY CLAY, BROWN 2.00m-3.00m SILTY SANDY CLAY, SAND5%, FINE, DARK BROWN 3.00m-5.00m CLAYEY SILT, BROWN TO DARK 5.00m-6.00m CLAY, LOAM. LIGHT BROWN 6.00m-9.00m SANDY CLAY, FINE TO MEDIUM SAND 9.00m-10.00m SAND, MEDIUM TO COARSE, BROWN TO RED 10.00m-12.00m WEATHERED SILTSTONE, SOME SAND5%, BROWN 12.00m-14.00m WEATHERED SILTSTONE WITH MEDIUM TO COARSE SAND, 10%, IRON OXIDIZED 14.00m-19.00m WEATHERED SILTSTONE, FE OXIDIZED, WELL LAYERED, MOTTLING 19.00m-20.00m WEATHERED SILTSTONEWITH SAND, FE OXIDIZED, WELL LAYERED, MOTTLING 20.00m-25.00m WEATHERED SILTSTONE, IRON OXIDIZED, WELL LAYERED, QUARTZ VEINING EVIDENT 25.00m-29.00m SHALE, SLIGHTLY WEATHERED, GOOD CLEAVAGE, LIGHT BROWN 29.00m-37.00m SHALE, LIGHT GREY/GREEN, SLIGHTLY WEATHERED, WELL CLEAVED, FIRM, QUARTZ VEINING EVIDENT 10% 37.00m-41.00m SHALE, DARK GREY TO BLACK, WELL DEVELOPED CLEAVAGE 41.00m-45.00m QUARTZ, MILKY TO CLEAR, VEINING, SOME DARK GREY SHALE	634m	South West
10069583	0.00m-2.00m SILTY CLAY, WITH GREY SHALE PARTIALLY WEATHERED 2.00m-7.00m SHALE/SLATE, DARK GREY, WELL CLEAVED 7.00m-8.00m SHALE, BLACK, WITH SOME SAND 8.00m-19.00m SHALE, BLACK 19.00m-36.00m WEATHERED SHALE, LIGHT BROWN 36.00m-42.00m SHALE/PHYLLITE, BLACK, FRESH	637m	South West

NGIS Bore ID	Drillers Log	Distance	Direction
10133755	0.00m-3.35m Clay 3.35m-7.00m Sand 7.00m-12.80m Gravel Fine Water Supply 12.80m-15.80m Gravel Coarse Water Supply	656m	North West
10010515	0.00m-2.40m LOAM 2.40m-4.00m YELLOW SANDY CLAY 4.00m-4.50m FINE DRY SAND 4.50m-7.00m DRY SAND SOME SMALL STONES 7.00m-9.00m WATER COARSE SAND SOME GRAVEL 9.00m-10.30m CLAY BOUND GRAVEL 10.30m-11.50m GREY PUGGY CLAY 11.50m-14.80m CLEAN GREY GRAVEL 14.80m-15.70m CLAY BOUND GRAVEL	668m	West
10010757	0.00m-0.20m LOAM, BROWN 0.20m-3.50m SILTY CLAY, ORANGE RED BROWN 3.50m-4.50m CLAY, RED BROWN 4.50m-5.50m SANDY CLAY, BROWN 5.50m-6.50m SILTY CLAY, L/BROWN	679m	South West
10019361	0.00m-4.00m SILTY CLAY, BROWN ORANGE 4.00m-4.50m CLAY, RED BROWN 4.50m-5.50m SHALE, WEATHERED, ORANGE BROWN	679m	South West
10033625	0.00m-0.50m LOAMY SILTY SHALE 0.50m-1.00m SILTY CLAY 1.00m-3.50m CLAY, BROWN 3.50m-4.50m CLAYEY SHALE, BROWN 4.50m-7.00m SHALE, GREY BROWN	679m	South West
10047631	0.00m-3.05m Loam River 3.05m-6.10m Loam Dry Sandy 6.10m-14.02m Gravel Sandy Water Supply	707m	North
10068456	0.00m-0.10m Topsoil 0.10m-6.00m Clay 6.00m-9.00m Sand 9.00m-11.00m Sandy Clay 11.00m-14.00m Gravel 14.00m-23.00m Clay 23.00m-29.00m Gravel 29.00m-36.00m Clay	737m	West
10027886	0.00m-0.20m TOPSOIL, LOAM 0.20m-1.50m SANDY CLAY, L/BROWN 1.50m-3.50m CLAY, RED BROWN 3.50m-5.00m SILTY CLAY, ORANGE WITH ROUND STONE 5.00m-5.50m CLAY, ORANGE	746m	South West
10061064	0.00m-0.20m LOAM, BROWN 0.20m-1.50m SILTY LOAM, GREY BROWN 1.50m-3.20m SHALE, WEATHERED BROWN ORANGE	746m	South West
10028259	0.00m-1.00m CLAY LOAM - RED 1.00m-2.00m CLAY - YELLOW/RED - LIGHT 2.00m-4.00m SANDY CLAY - RED/YELLOW - FINE 4.00m-5.00m CLAY - GREY - MEDIUM 5.00m-5.50m ROCK - HARD	748m	South West
10022909	0.00m-2.50m SILT 2.50m-3.50m SILT 3.50m-8.00m CLAY 8.00m-20.00m SILT	765m	South
10079838	0.00m-0.90m FILL 0.90m-6.00m CLAY - LIGHT BROWN 6.00m-9.00m CLAY - DARK BROWN 9.00m-12.50m SANDY CLAY - BROWN 12.50m-14.50m SANDS AND LARGE GRAVELS - SATURATED	768m	West
10041314	0.00m-0.25m TOPSOIL, D/ BROWN 0.25m-0.50m SILTY CLAY, D/BROWN 0.50m-1.00m CLAY, ORANGE 1.00m-2.00m SANDY CLAY, ORANGE 2.00m-5.00m CLAY, ORANGE YELLOW 5.00m-5.50m SANDY CLAY, ORANGE YELLOW	782m	South
10084369	0.00m-1.00m Topsoil 1.00m-2.00m Clay 2.00m-3.00m Silty Clay 3.00m-4.00m Clay 4.00m-9.00m Silty 9.00m-15.00m Weathered Siltstone	787m	South East
10035397	0.00m-1.00m FILL 1.00m-3.00m CLAY 3.00m-20.00m SHALE	789m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10008473	0.00m-0.90m FILL 0.90m-6.00m CLAY - LIGHT BROWN 6.00m-9.00m CLAY - DARK BROWN 9.00m-12.50m SANDY CLAY - BROWN 12.50m-14.50m SANDS AND LARGE GRAVELS - SATUARATED	793m	West
10035264	0.00m-1.00m FILL 1.00m-4.00m CLAY 4.00m-20.00m SHALE	799m	South
10093993	0.00m-0.90m FILL 0.90m-6.00m CLAY - LIGHT BROWN 6.00m-9.00m CLAY - DARK BROWN 9.00m-12.50m SANDY CLAY - BROWN 12.50m-14.50m SANDS AND LARGE GRAVELS - SATURATED	799m	West
10008270	0.00m-19.50m SILT	803m	South
10114379	0.00m-19.50m SILT	803m	South
10142731	0.00m-3.00m SILTY CLAY, LIGHT BROWN 3.00m-4.00m SANDY CLAY, FINE, SAND60% 4.00m-5.00m FINE SANDY CLAY, TOP OF REGOLITH 5.00m-6.00m WEATHERED SILTSTONE, IRON OXIDE, LIGHT GREY LAYERING 6.00m-7.00m WEATHERED SILTSTONE, LIGHT GREY 7.00m-8.00m WEATHERED SILTSTONE, CLEAVAGE, IRON OXIDE STAINING 8.00m-9.00m WEATHERED SILTSTONE, IRON STAINING, LIGHT GREY, IRON OXIDE RED 9.00m-10.00m WEATHERED SILTSTONE, LAYERING LIGHT GREY 10.00m-11.00m WEATHERED SILTSTONE, IRON OXIDE PREDOMINANT 11.00m-12.00m WEATHERED SILTSTONE, OXIDISED, LAYERING 12.00m-13.00m WEATHERED SILTSTONE, IRON DOMINANT 13.00m-14.00m WEATHERED SILTSTONE, GOOD CLEAVAGE, IRON OXIDE, LIGHT GREY 14.00m-15.00m WEATHERED SILTSTONE, LAYERING, SOME QUARTZ VEINING, RED 15.00m-16.00m WEATHERED SILTSTONE, CLEAVAGE, VERY CLAY DOMINANT 16.00m-17.00m WEATHERED SILTSTONE, RED, VERY FIRM 17.00m-18.00m WELL WEATHERED SILTSTONE, YELLOW IRON OXIDE STAINING, MOIST 18.00m-19.00m SILTSTONE,GREY, SLIGHTLY WEATHERED 19.00m-20.00m SILTSTONE, GREY, VERY FINE GRAINED, IRON OXIDE STAINED 20.00m-22.00m WEATHERED SILTSTONE, VERY FINE GRAINED, IRON STAINING 22.00m-23.00m SILTSTONE, VERY FINE GRAINED 23.00m-24.00m SHALE, WEATHERED, GOOD CLEAVAGE, BLACK 24.00m-25.00m SHALE, GOOD CLEAVAGE, BLACK, SLIGHTLY WEATHERED 25.00m-27.00m SHALE, DARK GREY, IRON OXIDE STAINING, PARTLY WEATHERED 27.00m-28.00m SHALE, WEATHERED, GREY, OXIDE MOTTLING 28.00m-29.00m WEATHERED SILTSTONE, DARK GREY MOTTLING 29.00m-30.00m WEATHERED SILTSTONE, GREY SLIGHT YELLOW STAINING, VERY FINE GRAINED 30.00m-31.00m WEATHERED SILTSTONE, VERY FINE GRAINED, DARK GREY 31.00m-32.00m SHALE, SLIGHTLY WEATHERED, WELL CLEAVED, IRON OXIDE STAINING, FIRM 32.00m-33.00m SHALE, FIRM, SLIGHTLY WEATHERED 33.00m-34.00m SHALE, FIRM IRON OXIDE STAINING 34.00m-35.00m SHALE, BLACK FIRM, IRON STAINING 35.00m-36.00m SHALE, SLIGHTLY WEATHERED BROWN 36.00m-37.00m SILTSTONE, FIRM GREY/GREEN, FINELY LAYERED 37.00m-38.00m SHALE, WEATHERED, MOIST, VERY OXIDIZED WBZ 38.00m-43.00m SHALE, BLACK, SLIGHTLY WEATHERED WBZ 43.00m-45.00m WEATHERED SHALE, SLATE 45.00m-72.00m BLACK SHALE, WELL CLEAVED, SOME QUARTZ VEINING	805m	South West
10012752	0.00m-0.30m TOPSOIL 0.30m-0.50m CLAY 0.50m-1.00m CLAY LOAM 1.00m-2.50m CLAY 2.50m-5.50m CLAY LOAM 5.50m-6.00m CLAYEY SAND, L/BROWN 6.00m-7.50m LOAM CLAY, LIGHT, BROWN	818m	South West
10057515	0.00m-1.00m FILL 1.00m-4.00m CLAY 4.00m-20.00m SHALE	819m	South
10033729	0.00m-20.00m SILT	822m	South
10107922	0.00m-1.00m FILL 1.00m-3.00m CLAY 3.00m-21.00m SHALE	823m	South
10048615	0.00m-1.00m FILL 1.00m-3.00m CLAY 3.00m-21.00m SHALE	836m	South
10070238	0.00m-1.00m FILL 1.00m-3.00m CLAY 3.00m-21.00m SHALE	839m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10118387	0.00m-1.00m SILTY CLAY, QUARTZ VEINING 1.00m-15.00m SILTY CLAY, LIGHT BROWN 15.00m-20.00m WEATHERED SHALE 20.00m-30.00m WEATHERED SHALE, LIGHT BROWN 30.00m-35.00m WEATHERED SHALE, BLACK, CLEAVAGE 35.00m-40.00m SHALE, BLACK, SOME WEATHERING 40.00m-50.00m SHALE, BLACK, WELL CLEAVED 50.00m-73.00m SHALE, BLACK	840m	South West
10053134	0.00m-1.00m FILL 1.00m-4.00m CLAY 4.00m-21.50m SHALE	841m	South
10035241	0.00m-1.00m FILL 1.00m-4.00m CLAY 4.00m-24.00m SHALE	845m	South
10072688	0.00m-0.20m silt, brown, friable, dry, no odour 0.20m-7.00m clay, with trace coarse sand/fine gravels, reddish brown, moderate plasticity, hard, moist, no odour 7.00m-8.00m sand, gravelly, reddish brown, coarse sands and fine well rounded gravels, loose-medium dense, moist, no odour 8.00m-14.50m clay, with trace sand, brown, moderate plasticity, firm, moist-very moist,	850m	South East
10011445	0.00m-2.00m BROWN CLAY 2.00m-3.00m BROWN SHALE 3.00m-9.00m PURPLE SHALE 9.00m-15.00m BROWN SHALE 15.00m-31.00m PURPLE SHALE 31.00m-50.00m BROWN & PURPLE SHALE 50.00m-61.00m BLUE SHALE & QUARTZ	851m	South West
10009541	0.00m-0.25m TOPSOIL, LOAM 0.25m-1.00m CLAY, YELLOW BROWN 1.00m-1.50m SANDY CLAY, FINE TO MED 1.50m-2.00m CLAY WITH SHALE, YELLOW BROWN 2.00m-2.50m SHALE, WEATHERED 2.50m-4.50m SHALE, GREY L/BROWN	858m	South West
10057432	0.00m-0.40m Fill 0.40m-10.50m Clay 10.50m-13.00m Sand silty	894m	South East
10102738	0.00m-0.60m Topsoil 0.60m-2.50m Clay, sandy 2.50m-4.60m Clay, med 4.60m-11.00m Clay, sandy 11.00m-13.00m Sand, clayey	894m	South East
10079421	0.00m-3.60m Fill 3.60m-8.90m Clay, silty 8.90m-11.20m Clay, grey brown 11.20m-12.30m Clay, sandy 12.30m-14.00m Sand, fine course grained	895m	South East
10008505	0.00m-0.20m Topsoil 0.20m-2.50m Sand 2.50m-10.50m Clay 10.50m-13.00m Sand	896m	South East
10073079	0.00m-3.20m Fill 3.20m-6.50m Clay, silty 6.50m-10.20m Clay, silty grey brown 10.20m-12.40m Clay medium 12.40m-14.00m Sand, course grained	896m	South East
10075052	0.00m-4.50m Sand fine med grained 4.50m-10.50m Silt, brown 10.50m-13.00m Silty sand, fine coarse grained gravel	896m	South East
10101356	0.00m-3.75m Fill 3.75m-11.25m Clay, sandy 11.25m-13.15m Sand, silty 13.15m-14.00m Clay sandy	896m	South East
10113032	0.00m-9.00m Clay 9.00m-13.00m Sand, clayey	897m	South East
10095562	0.00m-1.50m gravel, within a reddish brown clay matrix, stiff, densely packed, no odour 1.50m-12.00m clay, reddish brown, moderate plasticity, very hard, moist, no odour, trace fine gravels & sands 11m. 12.00m-14.00m sandy clay, brown, high plasticity, stiff-hard, very moist, hydrocarbon odour	898m	South East
10069886	0.00m-0.60m Fill 0.60m-1.20m Clay, sandy 1.20m-4.80m Sand, silty 4.80m-5.20m Sand, course grained 5.20m-7.50m Clay, sandy 7.50m-8.90m Clay, silty 8.90m-11.00m Clay, grey 11.00m-12.20m Grading, sandy clay 12.20m-14.00m Sand, med	899m	South East

NGIS Bore ID	Drillers Log	Distance	Direction
10069834	0.00m-0.25m TOPSOIL, LOAM 0.25m-0.80m SILTY CLAY, RED 0.80m-1.00m CLAY, ORANGE 1.00m-1.50m SHALEY CLAY, RE BROWN 1.50m-2.50m SHALE, WEATHERED CLYEY 2.50m-3.50m SHALE, GREY BROWN 3.50m-4.00m SHALE, WEATHERED 4.00m-4.50m SHALEY CLAY 4.50m-5.00m CLAYEY SHALE	901m	South West
10029434	0.00m-0.50m asphalt 0.50m-1.50m clay, yellow brown-brown, high plasticity, stiff, slightly moist, no odour 1.50m-6.00m sandy clay, brown, moderate plasticity, med-coarse grained sand, firm, slightly moist 6.00m-7.00m sandy clay, blue grey, high plasticity, med grained sand, firm, slightly moist 7.00m-8.00m clay, some sand, bluish grey, high plasticity, med grained sand, firm, slightly moist 8.00m-9.00m clay, gravelly, greyish brown, hight plasticity, fine grained gravels, well rounded, firm, moist 9.00m-13.00m clay, some sand and fine gravels, brown, high plasticity, soft, moist 13.00m-15.00m clayey sand, brown, medium dense, wet, strong hydrocarbon odour	907m	South East
10111882	0.00m-3.05m Clay Red 3.05m-9.14m Silt Black Clay 9.14m-11.58m Gravel Sand	907m	North East
10030323	0.00m-2.00m Topsoil 2.00m-3.00m Clayey Silt 3.00m-4.00m Clay 4.00m-7.00m Clay 7.00m-8.00m Clay 8.00m-10.00m Clay 10.00m-13.00m No Sample, some fine sand returned	912m	South East
10040309	0.00m-0.20m Concrete 0.20m-0.60m Fill 0.60m-10.00m Clay 10.00m-12.00m Sand 12.00m-15.00m Clay	917m	South East
10063212	0.00m-0.60m Fill 0.60m-7.00m Clay 7.00m-8.00m Clay, sandy 8.00m-15.00m Sand	927m	South East

NGIS Bore ID	Drillers Log	Distance	Direction
10073102	0.00m-1.00m SILTY CLAY, BROWN, SAND2% 1.00m-2.00m SILTY CLAY, LIGHT BROWN, SAND3% 2.00m-3.00m CLAYEY SAND, GREY 3.00m-4.00m CLAYEY SAND, GREY IRON STAINING, REMNANT WEATHERED MATERIAL 4.00m-5.00m LIGHT SAND LOAM, LIGHT GREY, COARSE SAND, ANGULAR 5.00m-6.00m SAND, FINE TO MEDIUM, LIGHT BROWN 6.00m-7.00m CLAYEY SAND, LIGHT BROWN, SOME WEATHERED SLATE MATERIAL 7.00m-8.00m SAND, FINE TO MEDIUM, LIGHT BROWN 8.00m-9.00m SAND, MEDIUM, LIGHT BROWN 9.00m-11.00m SAND QUARTZ, PYRITE, LIGHT BROWN, FINE TO MEDIUM 11.00m-12.00m SAND, MED TO COARSE, ANGULAR TO SUB-ANGULAR, LARGER QUARTZ GRAINS, 10%, MAINLY QUARTZ 12.00m-13.00m SAND, FINE TO MED, LARGE QUARTZ GRAINS, 5%, LIGHT BROWN 13.00m-15.00m SAND, MED TO COARSE, LARGE QUARTZ GRAINS, ANGULAR TO SUB-ANGULAR 15.00m-16.00m SANDY GRAVEL, GRAVEL MOSTLY SLATE AND QUARTZ, L/BROWN, PEBBLES UP TO 1CM IN LGTH - LONGITUDINAL 16.00m-17.00m PEBBLES, QUARTZ, UP TO 2-3CM, ROUNDED TO SUBROUNDED, MIXED QUARTZ AND SHALE PEBBLES 17.00m-18.00m WEATHERED SHALE, GREY, SOME LAYERING 18.00m-19.00m WEATHERED SHALE, GREY, GOOD CLEAVAGE 19.00m-20.00m SAND, GREY TO L/BROWN, FINE TO MED 20.00m-21.00m SAND, FINE TO MED, L/BROWN 21.00m-22.00m SAND, MED, ANGULAR TO SUB-ANGULAR, GREY TO L/BROWN 22.00m-23.00m SAND, LIGHT BROWN, MED, ANGULAR TO SUB-ANGULAR GRAINS 23.00m-24.00m SAND, L/BROWN TO RED, MED TO COARSE, ANGULAR TO SUB-ANGULAR 24.00m-25.00m SAND, MED TO COARSE, BROWN TO RED, ANGULAR TO SUB-ROUNDED 25.00m-26.00m SAND, RED, OXIDISED, MED TO COARSE, ANGULAR TO SUBROUNDED 26.00m-28.00m SAND, RED, MED TO COARSE, SUB ROUNDED 28.00m-37.00m EXTREMELY WEATHERED SILTSTONE, IRON OXIDISED, L/GREY MOTTLES LAYERING 37.00m-38.00m WEATHERED SILTSTONE, L/GREY MOTTILING, IRON OXIDISED, SAND EVIDENT, MED %5 38.00m-39.00m WEATHERED SILTSTONE, IRON OXIDISED, L/GREY MOTTILING 39.00m-40.00m WEATHERED SILTSTONE, VERY FRAGMENTED, SOME FINE SAND EVIDENT 40.00m-41.00m WEATHERED SILTSTONE, BROWN, VERY FRAGMENTED 41.00m-42.00m WEATHERED SILTSTONE, IRON OXIDISED, L/GREY MOTTLES, DENSE 42.00m-43.00m CLAYEY SAND, SOME WEATHERED SILTSTONE FRAGMENTS OSIDISED, SAND, FINE TO COARSE, 10% 43.00m-44.00m WEATHERED SILTSTONE, SAND, MED TO COARSE, 5%, RED 44.00m-45.00m WEATHERED SILTSTONE, OXIDISED, ASSOCIATED WITH COARSE SAND, QUARTZ GRAINS, ANGULAR, SAND, 50% 45.00m-46.00m CLAYEY SAND (WEATHERED SILTSTONE), SAND COARSE, UP TO 1CM LGTH, ANGULAR TO SUB-ANGULAR, RED 46.00m-48.00m WEATHERED SHALE, L/GREY TO GREEN (WEATHERED SILTSTONE), SAND COARSE, 40%, RED 48.00m-51.00m SHALE, GREEN, WELL LAYERED, L/GREY, HARD 51.00m-52.00m WEATHERED SILTSTONE, L/GREY TO YELLOW MOTTLES, ORANGE OXIDISED 52.00m-53.00m WEATHERED SILTSTONE, WITH SHALE, L/GREY TO GREEN 53.00m-54.00m WEATHERED SILTSTONE WITH SHALE, L/GREY, IRON OXIDISED 54.00m-55.00m SHALE, GREEN TO L/GREY, LAYERED 55.00m-56.00m SHALE, GREY, SOME LAYERING, VERY FINE 56.00m-57.00m NOT A REPRESENTATIVE SAMPLE 57.00m-58.00m SHALE, GREEN, REDUCED, DENSE 58.00m-60.00m SHALE, L/GREY TO GREEN 60.00m-62.00m SAND, MED TO COARSE, L/BROWN 62.00m-66.00m SHALE, L/GREY TO GREEN, LAYERING 66.00m-67.00m SHALE, L/GREEN, SOME WEATHERED MATERIAL 67.00m-68.00m SHALE, GREY TO BLACK 68.00m-69.00m SHALE, GREEN TO L/GREY TO BLACK 69.00m-78.00m SHALE, BLACK, WITH SOME QUARTZ VEINING 78.00m-79.00m WEATHERED SHALE 79.00m-81.00m WEATHERED SHALE, BROWN TO GREEN 81.00m-82.00m WEATHERED SHALE, BROWN TO GREEN, IRON OXIDISED, GREEN TO YELLOW 82.00m-84.00m WEATHERED SILTSTONE/SHALE, L/GREY MOTTLES, IRON OXIDISED 84.00m-85.00m SHALE, L/GREY, RELATIVELY FIRM 85.00m-86.00m SHALE, GREY TO BLACK, SLIGHTLY WEATHERED, SOME LAYERS 86.00m-89.00m SHALE, GREY TO BLACK, SLIGHTLY WEATHERED 89.00m-91.00m SHALE, BLACK, SLIGHTLY WEATHERED 91.00m-92.00m SHALE, GREEN TO BLACK, FIRM 92.00m-95.00m SHALE, GREEN TO BLACK, FIRM, SOME LAYERING 95.00m-96.00m SHALE, SLIGHTLY WEATHERED, GREY TO BLACK 96.00m-98.00m SHALE, GREY TO BLACK, SOME PYRITE, FIRM 98.00m-100.00m SHALE, SLIGHTLY WEATHERED, GREY TO BLACK 100.00m-101.00m SHALE, GREY TO BLACK, QUARTZ VEINING (SAND) 101.00m-120.00m SHALE, GREY TO BLACK, FIRM, LAYERING	929m	South West
10102362	0.00m-1.00m CLAY LOAM - RED 1.00m-2.00m CLAY - YELLOW/RED - LIGHT 2.00m-4.00m SILTY CLAY AND ROCKS - YELLOW 4.00m-7.00m CLAY AND ROCKS - YELLOW - LIGHT 7.00m-9.00m MUDSTONE - YELLOW	954m	South West

NGIS Bore ID	Drillers Log	Distance	Direction
10115653	0.00m-0.20m Concrete 0.20m-0.40m Sand 0.40m-1.40m Clay, silty 1.40m-6.00m Clay, silty 6.00m-7.00m Clay, sandy 7.00m-15.00m Sand, silty	967m	South East
10091548	0.00m-3.00m SILTY CLAY, BROWN 3.00m-4.00m SANDY CLAY, FINE TO COARSE, ANGULAR TO AUB ANGULAR, 50% SAND, BROWN 4.00m-5.00m SANDY CLAY, FINE TO COARSE GRAINS, SAND 80%, LIGHT BROWN 5.00m-6.00m GRAVELLY CLAY, ANGULAR TO SUB ANGULAR 80% SAND, IRON STAINING 6.00m-7.00m WEATHERED SILTSTONE, LIGHT BROWN 7.00m-9.00m WEATHERED SILTSTONE, RED 9.00m-10.00m WEATHERED SILTSTONE, SLATE EVIDENT 10.00m-13.00m WEATHERED SILTSTONE, GREY AND RED 13.00m-15.00m WEATHERED SILTSTONE, RED OXIDE AND LIGHT GREY 15.00m-20.00m WEATHERED SILTSTONE, RED AND LIGHT GREY 20.00m-21.00m WEATHERED SILTSTONE, RED 21.00m-22.00m WEATHERED SILTSTONE, RED AND LIGHT GREY 22.00m-24.00m WEATHERED SILTSTONE, WELL LAYERED AND IRON OXIDE RED 24.00m-26.00m WEATHERED SILTSTONE, LAYERED, RED AND LIGHT GREY 26.00m-27.00m WEATHERED SILTSTONE, RED 27.00m-28.00m WEATHERED SILTSTONE, RED, LAYERED 28.00m-29.00m WEATHERED SILTSTONE, RED AND LIGHT GREY, LAYERED/CLEAVAGE EVIDENT 29.00m-30.00m WEATHERED SILTSTONE, GOOD CLEAVAGE, WELL LAYERED, RED 30.00m-33.00m WEATHERED SILTSTONE, RED AND LIGHT GREY 33.00m-34.00m WEATHERED SILTSTONE, WELL LAYERED, LIGHT GREY NODULES 34.00m-35.00m WEATHERED SILTSTONE, CLEAVED, RED AND LIGHT GREY 35.00m-36.00m WELL WEATHERED SILTSTONE, RED, VERY CLAY DISPERSED 36.00m-37.00m WEATHERED SILTSTONE, CLEAVAGE, RED AND LIGHT GREY 37.00m-39.00m WELL WEATHERED SILTSTONE, CLEAVAGE, RED AND LIGHT GREY 39.00m-57.00m WEATHERED SILTSTONE, CLEAVAGE, RED AND LIGHT GREY 57.00m-61.00m SLATE/SHALE FRAGMENTS, GREY LAYERED, WEATHERED 61.00m-63.00m SLATE/SHALE, GREY, LAYERED WEATHERED QUARTZ PRESENT 63.00m-64.00m SLATE/SHALE, GREY, LAYERED, WEATHERED 64.00m-65.00m SLATE/SHALE, GREY, LAYERED, WEATHERED, QUARTZ PRESENT 65.00m-66.00m SLATE/SHALE, GREY, LAYERED, WEATHERED 66.00m-68.00m WEATHERED SHALE, RED, YELLOW, SMALL SLATE FRAGMENTS 68.00m-69.00m WEATHERED SHALE, DEEP RED, LIGHT GREY, SLATE FRAGMENTS 69.00m-70.00m SLATE/SHALE, LAYERED, GREY, WEATHERED, DENSE SLATE, PYRITE PRESENT 70.00m-71.00m SLATE/SHALE, LAYERED, GREY, WEATHERED, LIGHT GREY CLAYEY CLUMP PRESENT 71.00m-73.00m SLATE/SHALE, LAYERED, GREY, WEATHERED, DENSE SLATE-WEATHERED	968m	South West
10053452	0.00m-0.20m Concrete 0.20m-0.40m Clay, sandy 0.40m-10.00m Clay silty 10.00m-14.00m Sand 14.00m-28.00m sand	975m	East
10133993	0.00m-6.71m Clay Yellow 6.71m-9.14m Clay Sandy 9.14m-10.97m Clay Yellow 10.97m-14.33m Gravel River Sand Water Supply 14.33m-16.76m Sand River 16.76m-17.07m Clay Cement 17.07m-23.47m Wash Coarse Stones Waterworn 23.47m-23.77m Clay	978m	West
10075104	0.00m-0.30m Topsoil 0.30m-2.40m Loam 2.40m-3.00m Clay, sandy yellow 3.00m-6.00m Sand, fine and dry 6.00m-11.50m Sand, med course 11.50m-13.90m Gravel, clean river 13.90m-14.80m Clay, silty river	980m	West
10061785	0.00m-4.57m Loam Black River 4.57m-12.80m Sand Small Gravel Water Supply	1006m	West
10143058	0.00m-3.00m Silty Clay, red 3.00m-5.00m Clay, red 5.00m-45.00m Weathered Siltstone, red, yellow, light grey 45.00m-73.00m Shale, black, well cleaved, quartz veining	1020m	South West

NGIS Bore ID	Drillers Log	Distance	Direction
10137277	0.00m-1.00m Silty sandy clay, sand - 10%, light brown 1.00m-2.00m Sandy clay - fine to coarse sand, 20%, light brown 2.00m-4.00m clay - firm, fine sand 5% 4.00m-5.00m Silty sandy clay, stiff, iron oxide, 5% sand 5.00m-6.00m Sandy clay - fine coarse, angular to subangular, light brown 6.00m-7.00m Weathered siltstone, iron oxide, orange, light grey, fine to medium sand 7.00m-11.00m Weathered siltstone, light grey, iron oxide 11.00m-24.00m Weathered siltstone, orange to red, quartz grained, round to sub-angular 24.00m-26.00m Sandy clay fine 5% 26.00m-27.00m Clayey sand, fine, 5%, firm 27.00m-28.00m Sand, Orange 28.00m-29.00m Weathered siltstone, fine sand, clay 29.00m-31.00m Weathered siltstone, light grey, clayey, 5% sand 31.00m-34.00m Weathered siltstone, fine to coarse, angular, sand stained 34.00m-38.00m Weathered siltstone, fine to coarse, angular, sand stained, slate, quartz nodules 38.00m-39.00m Weathered shale, black 39.00m-42.00m Siltstone, weathered, clay and sand 42.00m-47.00m Weathered siltstone, clay and sand, orange 47.00m-48.00m Shale, green, weathered slightly 48.00m-53.00m Shale, slightly weathered, green and oxidised 53.00m-59.00m Shale, green/phyllite, well layered 59.00m-60.00m Shale, well layered, light brown 60.00m-71.00m Shale, well layered, light brown, slightly weathered	1058m	South West
10110398	0.00m-4.20m Top Soil 4.20m-6.30m Fine Dry Sand 6.30m-10.90m Med Clean Sand 10.90m-14.50m Gravel + Sand 14.50m-14.80m Silty Clayey Gravel 14.80m-16.90m Clean Gravel 16.90m-18.70m Silty Gravel 18.70m-19.00m Clean Fine Sand 19.00m-20.60m Clean Med Sand Some Stones	1075m	North
10090434	0.00m-2.40m Red clay. 2.40m-4.80m Yellow clay. 4.80m-7.20m Sandy yellow clay. 7.20m-8.70m Clay - grey. 8.70m-11.80m Clean coarse sand and gravel.	1083m	South East
10025685	0.00m-0.30m SAND, L/BROWN 0.30m-6.00m CLAY, YELLOW BROWN 6.00m-6.50m CLAY, MOTTLED BROWN GREY 6.50m-7.00m CLAY, YELLOW BROWN	1085m	South West
10076557	0.00m-0.20m Fill; bitumen & gravel 0.20m-0.80m Fill; roadbase 0.80m-1.40m Fill; gravelly loam 1.40m-4.00m Clayey Loam; tan/brown, increase in darkness with depth 4.00m-10.00m Clay; brown 10.00m-20.50m Clay, gravelly; brown, @ 13m clay content increases	1089m	North East
10090571	0.00m-0.20m Fill; bitumen & gravel 0.20m-0.80m Fill; roadbase 0.80m-1.00m Fill; gravelly loam 1.00m-2.00m Loam; tan/light brown 2.00m-3.60m Clay; chocolate 3.60m-9.00m Clay; brown 9.00m-15.00m Gravel; rounded in Clay, @10m increasing gravel 15.00m-20.50m Gravel; blue/green, some clay	1089m	North East
10106756	0.00m-1.00m TOPSOIL, BROWN 1.00m-10.00m CLAY, YELLOW, BROWN, DRY	1106m	South West
10105799	0.00m-1.50m Gravel, 1.50m-3.00m Loam with gravel 3.00m-14.00m Clay	1118m	North East
10046762	0.00m-0.60m Fill; Bitument & roadbase 0.60m-2.00m Gravel; light tan, Loam 2.00m-5.00m Loam; with cobbles & gravel 5.00m-6.40m Loam-Clay; brown 6.40m-13.00m Clay; loamy, grey	1128m	North East
10032189	0.00m-0.20m SANDY LOAM, BROWN 0.20m-1.00m SILTY CLAY, ORANGE BROWN 1.00m-1.50m CLAY, YELLOW ORANGE 1.50m-5.00m SANDY CLAY, YELLOW BROWN 5.00m-6.00m CLAY, YELLOW BROWN	1137m	South West
10057210	0.00m-0.20m TOPSOIL, BROWN 0.20m-1.40m SILTY CLAY, BROWN RED 1.40m-5.80m CLAY, ORANGE 5.80m-6.00m SANDY CLAY, RED 6.00m-6.50m CLAY, RED	1137m	South West
10071504	0.00m-0.10m CONCRETE 0.10m-2.20m FILL 2.20m-3.40m SANDY CLAY 3.40m-12.00m CLAYEY SAND 12.00m-14.00m SANDY GRAVEL	1137m	North East

NGIS Bore ID	Drillers Log	Distance	Direction
10146585	0.00m-6.10m Clay Sandy 6.10m-24.38m Sand Gravel Water Supply	1140m	West
10046039	0.00m-1.00m TOPSOIL, BROWN 1.00m-10.00m CLAY, YELLOW, BROWN, DRY	1147m	South West
10099227	0.00m-0.80m Topsoil & Grass 0.80m-2.00m Loam, Gravel-Fill; @ 1.4m, red loam 2.00m-7.00m Clay, loamy; light tan, @ 3.4m chocolate loamy clay 7.00m-8.00m Clay; brown, with gravel & cobbles 8.00m-8.60m Clay, loam; chocolate 8.60m-10.60m Clay; brown with gravel 10.60m-14.60m Clayey Sand; grey, coarse 14.60m-19.40m Gravel	1170m	North East
10113693	0.00m-1.00m TOPSOIL BROWN 1.00m-4.00m CLAY BROWN 4.00m-8.00m SAND BROWN 8.00m-28.00m RIVER GRAVEL 28.00m-31.00m SAND FATTY 31.00m-37.00m CLAY WITH SAND DARK GREY 37.00m-38.00m SAND MEDIUM TO COARSE ML 10 38.00m-39.00m SAND MEDIUM TO COARSE ML 70 39.00m-40.00m SAND MEDIUM TO COARSE ML 50 40.00m-42.00m SAND MEDIUM TO COARSE ML 30 42.00m-44.00m SAND MEDIUM TO COARSE CLAY ML 50 44.00m-45.00m SAND MEDIUM TO COARSE ML 1M 45.00m-46.00m SAND MEDIUM TO COARSE ML 30 46.00m-47.00m SAND MEDIUM TO COARSE ML 80 47.00m-48.00m SAND MEDIUM TO COARSE ML 70 48.00m-49.00m SAND MEDIUM TO COARSE ML 50 49.00m-50.00m SAND MEDIUM TO COARSE ML 30 50.00m-51.00m SAND MEDIUM TO COARSE ML 1M 51.00m-51.50m SAND MEDIUM TO COARSE ML 50 51.50m-53.00m SAND MEDIUM TO COARSE ML 1M 53.00m-56.00m SAND MEDIUM TO COARSE ML 50 56.00m-56.50m SAND MEDIUM TO COARSE HARD DRILL ML 50 56.50m-60.00m SAND MEDIUM TO COARSE ML 50	1173m	North
10073913	0.00m-1.00m SILTY CLAY, BROWN 1.00m-5.00m CLAY, BROWN 5.00m-6.00m CLAY, LIGHT BROWN 6.00m-7.00m CLAY, LIGHT GREY MOTTLES 7.00m-8.00m SILTY CLAY, PEDS LIGHT BROWN 8.00m-9.00m FINE SANDY CLAY, LIGHT BROWN 9.00m-10.00m FINE SAND, LIGHT SAND 10.00m-11.00m SANDY CLAY, LIGHT BROWN 11.00m-15.00m CLAYEY SAND, LIGHT GREY MOTTLES 15.00m-16.00m WEATHERED SILTSTONE, LIGHT GREY & YELLOW MOTTLES 16.00m-20.00m WEATHERED SILTSTONE, LIGHT GREY & YELLOW MOTTLES, FINE SAND EVIDENT 20.00m-36.00m SAND, MEDIUM, SUB-ROUNDED, LIGHT BROWN 36.00m-39.00m SAND, WEATHERED SILTSTONE 39.00m-49.00m CLAYEY SAND, LIGHT BROWN 49.00m-61.00m FINE SANDY CLAY 61.00m-73.00m WEATHERED SILTSTONE, LIGHT GREY TO BROWN	1179m	South West
10073840	0.00m-1.00m Clay, 1.00m-2.00m Gravel with loam 2.00m-5.00m Clay, heavy 5.00m-8.00m Clay, yellow 8.00m-19.00m Sand, clayey, grey 19.00m-20.00m Clay band with gravel	1240m	North East
10136313	0.00m-1.00m Topsoil, brown 1.00m-2.00m Clay, brown 2.00m-4.00m Sand, brown 4.00m-8.00m Sand, brown / mustard 8.00m-29.00m Gravel, river 29.00m-30.00m Sand, medium to coarse 30.00m-34.00m Sand, medium, fatty 34.00m-35.00m Sand, clay 35.00m-36.00m Silt 36.00m-37.00m Sand 37.00m-38.00m Sand, medium to coarse 38.00m-39.00m Sand, medium to coarse 39.00m-40.00m Clay, dark grey	1253m	North West
10076105	0.00m-3.66m Loam Alluvial 3.66m-4.88m Sand Dry Very Fine 4.88m-7.32m Sand Water Supply 7.32m-9.75m Gravel River Water Supply	1266m	West
10000709	0.00m-0.60m Topsoil 0.60m-2.13m Clay Yellowish 2.13m-3.96m Clay Yellowish Sandy 3.96m-5.18m Sand Greyish Red Dry 5.18m-7.62m Sand Reddish Dry Fine 7.62m-10.66m Sand Coarse 7.62m-10.66m River Water Supply	1274m	North West

NGIS Bore ID	Drillers Log	Distance	Direction
10143181	0.00m-0.10m BITUMEN 0.10m-0.70m SILTY CLAY - FIRM - BLACK 0.70m-1.30m SILTY CLAY - FIRM - MOTTLED ORANGE 1.30m-2.40m SILTY CLAY - DARK BROWN 2.40m-3.50m CLAY - STIFF - LIGHT BROWN 3.50m-4.30m CLAY - STIFF - GREY/BROWN 4.30m-8.50m SILTY CLAY - STIFF - BROWN/GREY 8.50m-10.70m CLAY - STIFF - GREY/ORANGE/BROWN 10.70m-10.90m SANDY CLAY - STIFF - GREY/BROWN 10.90m-13.00m SILTY CLAY - STIFF - GREY/BROWN	1276m	North East
10029829	0.00m-1.82m Topsoil 1.82m-67.97m Clay Shale 67.97m-106.68m Slate Water Supply	1282m	South West
10117753	0.00m-0.10m BITUMEN 0.10m-1.50m SANDY CLAY - LOOSE - BROWN 1.50m-2.60m CLAY - FIRM - BROWN 2.60m-5.90m CLAY - FIRM - DARK BROWN 5.90m-7.90m CLAY - FIRM - GREY 7.90m-10.40m SANDY CLAY - FIRM - COARSE 10.40m-11.90m SAND - LOOSE - BLACK/GREY 11.90m-13.00m SANDY GRAEL - LOOSE - YELLOW/BROWN/BLACK	1292m	North East
10022473	0.00m-7.32m Clay 7.32m-9.45m Sand Small Stones Water Supply	1295m	North
10106641	0.00m-1.00m TOPSOIL 1.00m-14.00m CLAY 14.00m-27.00m SHALE - SOFT 27.00m-72.00m SHALE 72.00m-106.00m SLATE	1300m	South West
10034865	0.00m-0.30m CLAY, SILTY SANDY 0.30m-1.10m CLAY, SILTY 1.10m-2.50m SAND, COARSE BLACK 2.50m-4.00m SAND, FINE TO MEDIUM BLACK	1305m	South West
10066433	0.00m-0.60m CLAY, SILTY BROWN BLACK 0.60m-20.22m SILTY CLAY	1305m	South West
10109041	0.00m-15.00m Clay	1307m	South West
10119512	0.00m-0.10m BITUMEN 0.10m-5.50m SANDY SILTY CLAY - STIFF - BLACK 5.50m-10.70m SILTY CLAY - FIRM - DARK/LIGHT GREY 10.70m-11.00m SANDY SILTY CLEY - SOFT - GREY 11.00m-12.40m SILTY CLAY - DARK GREY 12.40m-13.00m SILTY CLAYEY SAND - STIFF - DARK GREY 13.00m-14.50m SAND - GRAVELLY - LOOSE - GREY	1307m	North East
10072392	0.00m-5.10m SILTY CLAY	1312m	South West
10118832	0.00m-0.20m BITUMEN 0.20m-0.90m SANDY SILT - LOOSE - YELLOW/BROWN 0.90m-3.90m SILT - BROWN/GREY 3.90m-4.90m SILTY CLAY - STIFF - BROWN 4.90m-8.40m SILTY CLAY - FIRM - RED/BROWN/GREY 8.40m-12.00m SANDY CLAY - SOFT - GREY	1317m	North East
10102973	0.00m-0.30m CLAY 0.30m-15.00m SILTY CLAY	1323m	South West
10127452	0.00m-0.10m BITUMEN 0.10m-2.50m SILTY ASH 2.50m-3.00m CLAYEY SILT - LOOSE - BROWN 3.00m-6.50m SILTY CLAY - BROWN/BLACK/GREY 6.50m-8.30m CLAY - STIFF - LIGHT GREY 8.30m-12.50m SILTY CLAY - SOFT - GREY/BLACK	1325m	North East
10087066	0.00m-8.10m SILTY CLAY	1327m	South West
10127025	0.00m-0.90m SANDY CLAY - BROWN/BLACK 0.90m-4.50m SAND - YELLOW WITH BLACK COKE & ASH 4.50m-5.80m CLAY - SOFT - BLACK	1330m	North East
10121473	0.00m-0.90m SANDY CLAY - BROWN/BLACK 0.90m-4.50m SAND - LOOSE - YELLOW WITH BLACK COKE 4.50m-8.90m SILTY CLAY - SOFT - BLACK/GREY 8.90m-11.30m CLAY - STIFF - DARK GREY 11.30m-14.70m CLAY - GREY/BROWN	1332m	North East
10005049	0.00m-7.32m Clay Water Supply 7.32m-7.92m Sand Coarse	1333m	North East

NGIS Bore ID	Drillers Log	Distance	Direction
10111379	0.00m-7.92m Clay 7.92m-24.38m Clay Stones Wash 24.38m-45.72m Clay Coloured 45.72m-50.29m Clay Dark Silty 50.29m-51.82m Clay Sandy Some Stones 51.82m-57.30m Clay Red White 57.30m-60.35m Clay Stoney 60.35m-62.79m Shale Soft 62.79m-70.10m Shale Water Supply	1335m	South West
10129203	0.00m-0.30m Sandy Clay 0.30m-2.50m Silty Clay 2.50m-3.00m Silty Clay 3.00m-3.80m Silty Clay 3.80m-4.50m Silty Clay 4.50m-6.00m Silty Clay 6.00m-8.40m Silty Clay 8.40m-10.10m Silty Clayey Sand 10.10m-10.50m Silty Clayey Gravelly Sand	1336m	West
10133098	0.00m-0.40m CLAYEY SAND 0.40m-1.00m SILT - DARK BROWN/BLACK 1.00m-5.50m SILTY CLAY - BROWN 5.50m-9.50m CLAY - STIFF - GREY/BLACK 9.50m-14.80m SILTY CLAY - STIFF - GREY	1336m	North East
10071432	0.00m-0.20m Sandy Clay 0.20m-0.90m Clay 0.90m-1.50m Clay 1.50m-3.50m Clay 3.50m-7.00m Clay 7.00m-8.50m Clay 8.50m-10.00m Sandy Clay	1352m	South
10143823	0.00m-3.10m CLAY - DARK/LIGHT BROWN 3.10m-13.00m SILTY CLAY	1358m	North East
10025607	0.00m-1.00m GRAVELLY SILTY CLAY 1.00m-15.15m SILTY CLAY	1372m	South West
10065963	0.00m-4.05m SILTY CLAY	1376m	South West
10145564	0.00m-9.14m Clay Sandy 9.14m-23.77m Gravel Water Supply	1397m	West
10032647	0.00m-0.40m GRAVEL, CLAY 0.40m-15.15m SILTY CLAY	1413m	South West
10039650	0.00m-0.30m CLAY, ROADBASE 0.30m-4.05m SILTY CLAY	1416m	South West
10080636	0.00m-3.00m LOAM AND CLAY - ALLUVIAL 3.00m-5.40m SAND - FINE - DRY 5.40m-9.60m SAND - FINE/MEDIUM - SOME SMALL STONES 9.60m-12.10m GRAVEL - RIVER - DAMP - STONES TO50MM 12.10m-12.70m GRAVEL - YELLOW - CLAYBOUND 12.70m-15.00m GRAVEL - SILTY YELLOW CLAYEY - DAMP	1424m	North
10121955	0.00m-6.00m CLAY, GREY BROWN 6.00m-14.00m SAND, BROWN 14.00m-19.00m GRAVEL 19.00m-60.00m SAND, GREY BROWN 60.00m-60.50m CLAY, GREY SILTY 60.50m-74.00m SAND, GREY COARSE	1434m	North
10074659	0.00m-2.00m clay grey 2.00m-6.00m clay brown and grey 6.00m-14.00m sand brown, med-coarse, 5% polymictic gravel up to 8mm 14.00m-19.00m gravel brown, polymictic rounded pebbles up to 20mm, 50% med- coarse sand and trace of clay, very poorly sorted 19.00m-25.00m sand brown med quartz well sorted, 10% brown clay 25.00m-30.00m sand grey/brown, med-coarse qrtz well sorted clean sand 30.00m-45.00m sand grey, med-coarse qrtz, 5% rounded gravel, charcoal fragments at 37m; mod. well sorted 45.00m-47.00m sand grey coarse qrtz;well sorted 47.00m-60.00m sand grey coarse, with 50% fine gravel;some rounded qrtz, 30mm and traces of clay;mod, well sorted;lignite at 52m 60.00m-60.50m clay grey silty 60.50m-74.00m sand grey coarse, 50% fine gravel; becomes finer, better sorted through 68-74m; some rounded qrtz pebbles <30mm and tra 74.00m-74.50m lignite d.brown/black, massive 74.50m-82.00m sand grey, med-coarse; mod, well sorted 82.00m-83.00m clay grey 83.00m-86.00m bedrock well weathered biotite rich granodiorite	1443m	North
10020804	0.00m-0.30m GRAVELLY SANDY CLAY 0.30m-15.15m SILTY CLAY	1466m	South West
10046450	0.00m-0.30m GRAVELLY SANDY CLAY 0.30m-4.05m SILTY CLAY	1470m	South West

NGIS Bore ID	Drillers Log	Distance	Direction
10017342	0.00m-0.30m SILTY SAND 0.30m-16.00m SILTY CLAY 16.00m-17.00m CLAY, GRAVELLY SANDY 17.00m-18.70m SILTY CLAY 18.70m-19.50m CLAY, GRAVELLY SANDY 19.50m-20.30m SILTY CLAY	1501m	South West
10059709	0.00m-3.00m LOAM - SANDY 3.00m-6.60m SAND - RED - DRY - FINE 6.60m-12.10m SAND - ALLUVIAL - COARSE (CLEAN) - SMALL STONES - DAMP 12.10m-13.90m SAND - COARSE - CLEAN - VERY MOIST - SOME STONE 13.90m-15.00m GRAVEL - YELLOW SILTY - BANDS YELLOW CLAY	1572m	North
10039660	0.00m-1.00m top soil 1.00m-8.00m brown clay 8.00m-12.00m small gravel 12.00m-21.00m large gravel 21.00m-22.00m yellow clay 22.00m-33.00m gravel 33.00m-34.00m clay 34.00m-79.00m gravel 79.00m-81.00m clay	1577m	North East
10126562	0.00m-1.00m top soil 1.00m-8.00m brown clay 8.00m-12.00m small gravel 12.00m-21.00m large gravel 21.00m-22.00m yellow clay 22.00m-33.00m gravel 33.00m-34.00m clay 34.00m-79.00m gravel 79.00m-81.00m clay	1577m	North East
10146885	0.00m-1.00m top soil 1.00m-8.00m brown clay 8.00m-12.00m small gravel 12.00m-21.00m large gravel 21.00m-22.00m yellow clay 22.00m-33.00m gravel 33.00m-34.00m clay 34.00m-79.00m gravel 79.00m-81.00m clay	1577m	North East
10149538	0.00m-1.00m top soil 1.00m-8.00m brown clay 8.00m-12.00m small gravel 12.00m-21.00m large gravel 21.00m-22.00m yellow clay 22.00m-33.00m gravel 33.00m-34.00m clay 34.00m-79.00m gravel 79.00m-81.00m clay	1577m	North East
10149558	0.00m-1.00m top soil 1.00m-8.00m brown clay 8.00m-12.00m small gravel 12.00m-21.00m large gravel 21.00m-22.00m yellow clay 22.00m-33.00m gravel 33.00m-34.00m clay 34.00m-79.00m gravel 79.00m-81.00m clay	1577m	North East
10149668	0.00m-1.00m top soil 1.00m-8.00m brown clay 8.00m-12.00m small gravel 12.00m-21.00m large gravel 21.00m-22.00m yellow clay 22.00m-33.00m gravel 33.00m-34.00m clay 34.00m-79.00m gravel 79.00m-81.00m clay	1578m	North East
10149672	0.00m-1.00m top soil 1.00m-8.00m brown clay 8.00m-12.00m small gravel 12.00m-21.00m large gravel 21.00m-22.00m yellow clay 22.00m-33.00m gravel 33.00m-34.00m clay 34.00m-79.00m gravel 79.00m-81.00m clay	1578m	North East

NGIS Bore ID	Drillers Log	Distance	Direction
10126073	0.00m-1.52m Topsoil Black 1.52m-2.74m Clay 2.74m-5.48m Sand Yellow 5.48m-8.83m Sand Yellow 5.48m-8.83m Gravel Fine 8.83m-24.07m Gravel Large 8.83m-24.07m Sand Coarse Water Supply 24.07m-24.68m Clay Bands 24.68m-27.43m Sand Yellow Water Supply 27.43m-28.65m Sand Grey Coarse Water Supply 28.65m-28.95m Clay Grey 28.95m-31.69m Sand Yellow 31.69m-32.00m Clay Yellow Grey 32.00m-38.10m Sand Grey Gravel Coarse Water Supply 38.10m-41.45m Granite Decomposed	1580m	East
10138864	0.00m-1.52m Topsoil Black 1.52m-2.74m Clay 2.74m-5.48m Sand Yellow 5.48m-8.83m Gravel Fine 5.48m-8.83m Sand Yellow 8.83m-24.07m Sand Coarse Water Supply 8.83m-24.07m Gravel Large 24.07m-24.68m Clay Bands 24.68m-27.43m Sand Yellow Water Supply 27.43m-28.65m Sand Grey Coarse Water Supply 28.65m-28.95m Clay Grey 28.95m-31.69m Sand Yellow 31.69m-32.00m Clay Yellow Grey 32.00m-38.10m Sand Grey Gravel Coarse Water Supply 38.10m-41.45m Granite Decomposed	1580m	East
10140201	1.52m-2.74m 2.74m-5.48m 5.48m-8.83m 8.83m-24.07m 24.07m-24.68m 24.68m-27.43m 27.43m-28.65m 28.65m-28.95m 28.95m-31.69m 31.69m-32.00m 32.00m-38.10m	1580m	East
10058249	0.00m-5.00m SANDY CLAY AND FILL - LIGHT BROWN 5.00m-8.50m SAND - LIGHT BROWN	1594m	North
10120652	0.00m-1.22m Soil Black 1.22m-6.10m Clay 6.10m-8.23m Clay Yellow Sandy 8.23m-9.14m Sand Yellow Water Supply 9.14m-11.28m Gravel Large 11.28m-12.19m Clay Sand 12.19m-19.81m Gravel Large Sand Water Supply 19.81m-20.42m Sand Yellow 20.42m-23.16m Sand Coarse 20.42m-23.16m Gravel Small 23.16m-24.99m Clay Sandy 24.99m-29.26m Sand Coarse Water Supply 29.26m-31.09m Sand Yellow Fine Silty 31.09m-33.83m Sand Yellow Coarse Soak 33.83m-34.14m Clay Yellow Rotten 34.14m-35.36m Sand Yellow Coarse 35.36m-35.97m Sand Fine Dirty Silty 35.97m-37.19m Loam Black 37.19m-43.28m Gravel Small Sand Water Supply 43.28m-48.77m Granite Decomposed 48.77m-49.68m Granite	1597m	East

NGIS Bore ID	Drillers Log	Distance	Direction
10138577	0.00m-1.22m Soil Black 1.22m-6.10m Clay 6.10m-8.23m Clay Yellow Sandy 8.23m-9.14m Sand Yellow Water Supply 9.14m-11.28m Gravel Large 11.28m-12.19m Clay Sand 12.19m-19.81m Gravel Large Sand Water Supply 19.81m-20.42m Sand Yellow 20.42m-23.16m Gravel Small 20.42m-23.16m Sand Coarse 23.16m-24.99m Clay Sandy 24.99m-29.26m Sand Coarse Water Supply 29.26m-31.09m Sand Yellow Fine Silty 31.09m-33.83m Sand Yellow Coarse Soak 33.83m-34.14m Clay Yellow Rotten 34.14m-35.36m Sand Yellow Coarse 35.36m-35.97m Sand Fine Dirty Silty 35.97m-37.19m Loam Black 37.19m-43.28m Gravel Small Sand Water Supply 43.28m-48.77m Granite Decomposed 48.77m-49.68m Granite	1597m	East
10139789	1.22m-6.10m 6.10m-8.23m 8.23m-9.14m 9.14m-11.28m 11.28m-12.19m 12.19m-19.81m 19.81m-20.42m 20.42m-23.16m 23.16m-24.99m 24.99m-29.26m 29.26m-31.09m 31.09m-33.83m 33.83m-34.14m 34.14m-35.36m 35.36m-35.97m 35.97m-37.19m 37.19m-43.28m 43.28m-48.77m 48.77m-49.68m	1597m	East
10036692	0.00m-0.20m fill, clayey sandy gravel, low plasticity, grey, brown, fine to coarse grained sand, fine to coarse grained gravel 0.20m-0.40m fill, clayey sandy, low plasticity, yellow, fine to coarse grained sand, traces of fine to coarse grained gravel 0.40m-1.40m silty sand, low plasticity, brown, fine to medium grained sand 1.40m-2.10m clay, high plasticity, orange, yellow, traces of fine to coarse sand 2.10m-8.20m silty clay, medium to high plasticity, yellow, grey, traces of fine to coarse sand, traces of coarse gravel 8.20m-10.00m clay, medium plasticity, yellow, orange, some fine to coarse grained sand	1634m	South West
10083677	0.00m-1.00m Topsoil 1.00m-4.00m Clay 4.00m-5.00m Weathered Phyllite 5.00m-7.00m Weathered Phyllite 7.00m-9.00m Weathered Phyllite 9.00m-12.00m Weathered Phyllite 12.00m-17.20m Weathered Phyllite	1639m	South
10004778	0.00m-4.50m Clay Red 4.50m-6.00m Clay Red 6.00m-8.00m Clay Coloured 8.00m-9.00m Sand Claybound 9.00m-10.00m Sand Water Bearing 10.00m-12.00m Sand Medium Gravel Water Bearing 12.00m-13.50m Sand Large Gravel Water Bearing 13.50m-14.50m Clay Red 14.50m-15.50m Clay Yellow Red 15.50m-16.60m Clay Grey 16.60m-16.90m Gravel Stoney Sand	1649m	East
10094671	0.00m-0.10m concrete 0.10m-0.25m fill, sand, grey, coarse grained sand 0.25m-0.40m ash, black 0.40m-0.90m silty sand, brown, fine grained sand 0.90m-1.20m clay, medium to high plasticity, yellow, some fine to coarse grained sand 1.20m-3.00m clay, high plasticity, orange, yellow, traces of fine to coarse grained sand 3.00m-4.50m silty clay, medium to high plasticity, yellow, orange, some fine grained sand 4.50m-7.90m clay, high plasticity, yellow, grey, traces of fine to coarse grained sand 7.90m-10.00m clay, medium to high plasticity, yellow, traces of fine to coarse grained sand, traces of coarse grained gravel	1654m	South West

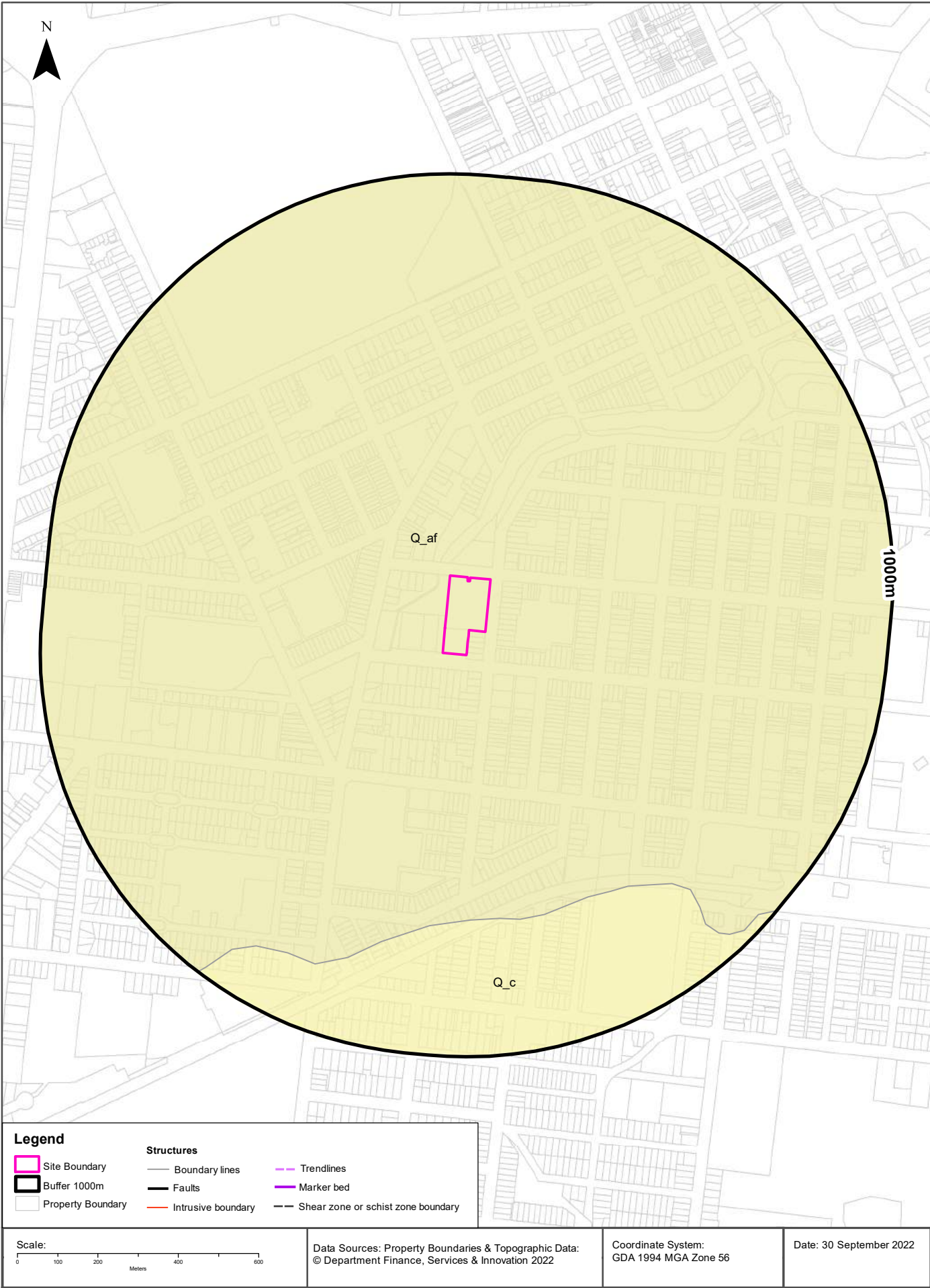
NGIS Bore ID	Drillers Log	Distance	Direction
10080725	0.00m-0.30m fill, clayey sandy gravel, low plasticity, brown, fine to medium grained sand, medium to coarse grained 0.30m-0.80m Ash, black, grey 0.80m-1.10m silty sand, grey, fine grained sand 1.10m-1.40m sandy clay, medium plasticity, yellow, grey, fine grained sand 1.40m-2.00m clay, high plasticity, orange, grey, traces of fine grained gravel 2.00m-8.10m clay, high plasticity, brown, grey, traces of fine grained gravel 8.10m-10.00m sandy clay, medium plasticity, orange, some medium grained gravel	1681m	South West
10017609	0.00m-0.10m Asphalt 0.10m-11.30m Clay, silty	1712m	South East
10033376	0.00m-0.50m Sandy Gravelly Clay 0.50m-0.80m Clay 0.80m-3.40m Clay 3.40m-7.30m Clay	1724m	South West
10038680	0.00m-1.00m LOAM - LIGHT BROWN - SANDY 1.00m-4.00m CLAY - LIGHT - SANDY 4.00m-5.00m GRAVEL 10-30 MM 5.00m-10.00m SANDY CLAY - LIGHT BROWN - LIGHT WITH RIVER GRAVEL	1734m	North
10069168	0.00m-1.00m LOAM - LIGHT BROWN - SANDY 1.00m-4.00m CLAY - LIGHT - SANDY AND RIVER GRAVEL 4.00m-9.80m CLAY - LIGHT AND GRAVEL	1784m	North
10149533	0.00m-1.00m top soil 1.00m-4.00m small sand 4.00m-9.00m small gravel/silt 9.00m-17.00m small gravel 17.00m-21.00m medium brown gravel 21.00m-25.00m large gravel 25.00m-29.00m yellow gravel/clay bands 29.00m-30.00m grey clay 30.00m-51.00m gravel 51.00m-76.00m round gravel 76.00m-80.00m round gravel 80.00m-84.00m grey clay	1803m	North East
10149559	0.00m-1.00m top soil 1.00m-4.00m small sand 4.00m-9.00m small gravel/silt 9.00m-17.00m small gravel 17.00m-21.00m medium brown gravel 21.00m-25.00m large gravel 25.00m-29.00m yellow gravel/clay bands 29.00m-30.00m grey clay 30.00m-51.00m gravel 51.00m-76.00m round gravel 76.00m-80.00m round gravel 80.00m-84.00m grey clay	1803m	North East
10081125	0.00m-0.10m Asphalt 0.10m-0.50m Silt, light brown 0.50m-11.20m Clay, silty	1804m	South East
10035647	0.00m-1.00m top soil 1.00m-4.00m small sand 4.00m-9.00m small gravel/silt 9.00m-17.00m small gravel 17.00m-21.00m medium brown gravel 21.00m-25.00m large gravel 25.00m-29.00m yellow gravel/clay bands 29.00m-30.00m grey clay 30.00m-51.00m gravel 51.00m-76.00m round gravel 76.00m-80.00m round gravel 80.00m-84.00m grey clay	1806m	North East
10125594	0.00m-1.00m top soil 1.00m-4.00m small sand 4.00m-9.00m small gravel/silt 9.00m-17.00m small gravel 17.00m-21.00m medium brown gravel 21.00m-25.00m large gravel 25.00m-29.00m yellow gravel/clay bands 29.00m-30.00m grey clay 30.00m-51.00m gravel 51.00m-76.00m round gravel 76.00m-80.00m round gravel 80.00m-84.00m grey clay	1806m	North East

NGIS Bore ID	Drillers Log	Distance	Direction
10146246	0.00m-1.00m top soil 1.00m-4.00m small sand 4.00m-9.00m small gravel/silt 9.00m-17.00m small gravel 17.00m-21.00m medium brown gravel 21.00m-25.00m large gravel 25.00m-29.00m yellow gravel/clay bands 29.00m-30.00m grey clay 30.00m-51.00m gravel 51.00m-76.00m round gravel 76.00m-80.00m round gravel 80.00m-84.00m grey clay	1806m	North East
10149507	0.00m-1.00m top soil 1.00m-4.00m small sand 4.00m-9.00m small gravel/silt 9.00m-17.00m small gravel 17.00m-21.00m medium brown gravel 21.00m-25.00m large gravel 25.00m-29.00m yellow gravel/clay bands 29.00m-30.00m grey clay 30.00m-51.00m gravel 51.00m-76.00m round gravel 76.00m-80.00m round gravel 80.00m-84.00m grey clay	1806m	North East
10149972	0.00m-1.00m top soil 1.00m-4.00m small sand 4.00m-9.00m small gravel/silt 9.00m-17.00m small gravel 17.00m-21.00m medium brown gravel 21.00m-25.00m large gravel 25.00m-29.00m yellow gravel/clay bands 29.00m-30.00m grey clay 30.00m-51.00m gravel 51.00m-76.00m round gravel 76.00m-80.00m round gravel 80.00m-84.00m grey clay	1806m	North East
10106283	0.00m-1.00m fill, dark brown, medium to coarse grained sand, moderate plasticity clay 1.00m-18.00m clay, brown, moderate to high plasticity, with trace of silt	1815m	South East
10039950	0.00m-0.20m FILL 0.20m-1.40m SAND 1.40m-7.00m CLAY 7.00m-18.00m SILTSTONE	1817m	South East
10115883	0.00m-0.50m TOPSOIL 0.50m-7.80m CLAY - GREY - ALLUVIAL 7.80m-8.20m CLAYBOUND - BROWN - GRAVELLY 8.20m-11.00m SAND - CLEAN - MOIST 11.00m-11.60m GRAVEL - YELLOW - SILTY 11.60m-13.70m GRAVEL - YELLOW/GREY - DRY 13.70m-16.50m CLAYEY GRAVEL - YELLOW - DRY - SILTY 16.50m-20.00m GRAVEL - CLAYBOUND - YELLOW - COMPACTED	1817m	North
10104088	0.00m-0.20m fill 0.20m-6.00m clayey sand, red, fine to coarse grained, moderate plasticity clay 6.00m-14.00m siltstone, grey - becomes grey blue at 10m bgs	1821m	South East
10099388	0.00m-0.10m Asphalt 0.10m-0.50m Silt 0.50m-12.50m Clay, silty 12.50m-13.50m Sand, silty 13.50m-14.00m Sand, gravelly	1823m	South East
10037719	0.00m-1.50m fill, brown, moderate plasticity clay, fine to coarse grained sand 1.50m-5.00m clay, red to brown, moderate to high plasticity, with trace of silt 5.00m-8.00m sandy clay, red, moderate plasticity, fine to coarse grained sand, with trace of medium to coarse grained gravel 8.00m-16.00m siltstone, grey - becomes grey to blue at 9.6m bgs 16.00m-17.00m siltstone, pale brown with traces of fine to medium grained sand 17.00m-18.00m gravel, sandy, pale brown to grey, medium to coarse grained, with fine to coarse grained sand	1824m	South East
10068275	0.00m-0.10m Asphalt 0.10m-0.50m Silt, brown 0.50m-12.50m Clay, silty	1825m	South East
10078405	0.00m-0.10m Asphalt 0.10m-0.50m Silt 0.50m-1.20m Silt, brown 1.20m-11.40m Clay, silty	1829m	South East
10005711	0.00m-1.00m fill, brown, fine to medium grained sand, low plasticity 1.00m-4.00m clayey sand, brown to orange, fine to coarse grained, low plasticity clay, with trace of silt 4.00m-8.00m sandy clay, brown to orange, moderate plasticity, fine to coarse grained sand, with trace of silt 8.00m-10.00m sandy clay, grey blue, moderate plasticity, fine to coarse grained sand, with trace of silt 10.00m-16.00m siltstone, grey	1835m	South East

NGIS Bore ID	Drillers Log	Distance	Direction
10084599	0.00m-0.90m topsoil 0.90m-7.20m clay, brown 7.20m-8.10m sandy clay, dry 8.10m-9.60m gravel, silty, brown, soak 9.60m-12.00m gravel, grey, gravel +water, slightly silty 12.00m-15.00m gravel, clean brown 15.00m-15.60m gravel, silty clayey	1838m	North East
10043910	0.00m-0.25m fill, brown, moderate plasticity clay, fine to coarse grained sand, with trace of silt 0.25m-7.00m sandy clay, red, moderate plasticity, fine to coarse grained sand 7.00m-14.00m siltstone, grey	1842m	South East
10113307	0.00m-0.30m FILL 0.30m-4.70m CLAY 4.70m-5.60m SAND 5.60m-7.80m CLAY 7.80m-11.70m SAND 11.70m-12.50m CLAY	1849m	South East
10009939	0.00m-1.00m fill, brown, fine to medium grained sand, low plasticity clay 1.00m-5.00m clayey sand, red to dark brown, fine to medium grained, low plasticity clay with trace of silt 5.00m-6.00m gravel, sandy, yellow to grey, medium to coarse grained, with fine to coarse grained sand 6.00m-9.00m sandy clay, red, moderate plasticity, fine to medium grained sand 9.00m-12.00m siltstone, red grey	1852m	South East
10065962	0.00m-0.20m FILL 0.20m-1.00m SAND 1.00m-8.00m CLAY 8.00m-10.00m SILTSTONE - PALE GREY - EXTREMELY WEATHERED 10.00m-27.00m SILTSTONE - PALE GREY	1852m	South East
10077819	0.00m-0.25m fill, brown, low plasticity clay, fine to coarse grain sand, trace mediu to coarse grained gravel 0.25m-10.00m clay, moderate plasticity, red to orange, traces of fine to coarse grained sand 10.00m-12.00m siltstone, grey 12.00m-16.00m siltstone, yellow 16.00m-18.70m gravel, fine to coarse grained 18.70m-19.00m sand, gravelly, grey yellow, fine to coarse grained, with fine to coarse grained gravel	1853m	South East
10079476	0.00m-0.20m FILL 0.20m-0.50m SAND 0.50m-1.80m CLAY 1.80m-13.00m CLAYSTONE 13.00m-18.00m SILTSTONE	1854m	South East
10100485	0.00m-5.00m fill, brown, fine to coarse grained sand, moderate plasticity clay, with trace of silt 5.00m-15.00m siltstone, grey to pale brown	1857m	South East
10057136	0.00m-0.50m TOPSOIL 0.50m-2.00m SAND 2.00m-12.00m CLAY 12.00m-17.00m SILTSTONE	1862m	South East
10069878	0.00m-0.16m CONCRETE 0.16m-1.20m FILL 1.20m-7.50m CLAY 7.50m-9.50m SAND 9.50m-10.00m CLAY	1862m	South East
10099391	0.00m-0.10m CONCRETE 0.10m-8.80m CLAY 8.80m-10.80m SAND 10.80m-11.50m CLAY	1869m	South East
10046938	0.00m-0.12m CONCRETE 0.12m-1.20m FILL 1.20m-12.20m CLAY 12.20m-12.50m FISSURE - WATER 12.50m-13.00m CLAY	1881m	South East
10049352	0.00m-0.20m Sandy Clay 0.20m-0.70m Clay 0.70m-1.30m Clay 1.30m-1.50m Clay 1.50m-2.00m Clay 2.00m-4.10m Clay	1894m	South West
10116037	0.00m-2.70m FILL 2.70m-9.40m CLAY 9.40m-10.80m SAND 10.80m-11.50m CLAY	1895m	South East
10033760	0.00m-8.53m Driller 8.53m-10.36m Sand Gravel Water Supply	1896m	North West
10037434	0.00m-0.20m Asphalt 0.20m-0.50m Fill 0.50m-6.90m Clay 6.90m-9.00m Sand 9.00m-9.10m Clay	1908m	South East
10112610	0.00m-0.20m Sandy Clay 0.20m-0.40m Silty Sandy Clay 0.40m-1.90m Clay 1.90m-4.30m Clay	1931m	South West

NGIS Bore ID	Drillers Log	Distance	Direction
10076109	0.00m-0.20m Asphalt 0.20m-0.70m Fill 0.70m-7.70m Clay 7.70m-11.80m Sand 11.80m-12.10m Clay	1955m	South East
10057721	0.00m-2.00m Soil Surface 2.00m-2.50m Clay Dark Grey 2.50m-6.00m Clay 6.00m-7.50m Clay 6.00m-7.50m Bands Grey 7.50m-10.50m Clay Grey 10.50m-11.00m Clay Dark Grey Silty 11.00m-14.50m Sand Poorly Sorted 11.00m-14.50m Gravel Stones 14.50m-15.00m Clay Grey Silty 15.00m-21.00m Sand Poorly Sorted Coarse Water Supply 15.00m-21.00m Gravel Heavy	1979m	West
10129309	0.00m-9.75m Loam Sandy 9.75m-11.28m Sand Gravel Water Supply	1979m	West
10035339	0.00m-1.00m Topsoil 1.00m-3.00m Silt 3.00m-10.00m Clay 10.00m-11.00m Clay 11.00m-12.00m Clay 12.00m-14.00m Clay	1989m	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

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Q_af	Alluvial floodplain deposits	Silt, very fine- to medium-grained lithic to quartz-rich sand, clay.	/Alluvium//Alluvial floodplain deposits//	Quaternary (base) to Now (top)	Clastic sediment	0m
Q_c	Colluvium	Poorly sorted, weakly cemented to unconsolidated colluvial lenses of polymictic conglomerate with medium- to very coarse-grained sand matrix; interspersed with unconsolidated clayey and silty red-brown (aeolian) sand layers, modified by pedogenesis.	/Colluvium////	Quaternary (base) to Now (top)	Clastic sediment	659m

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

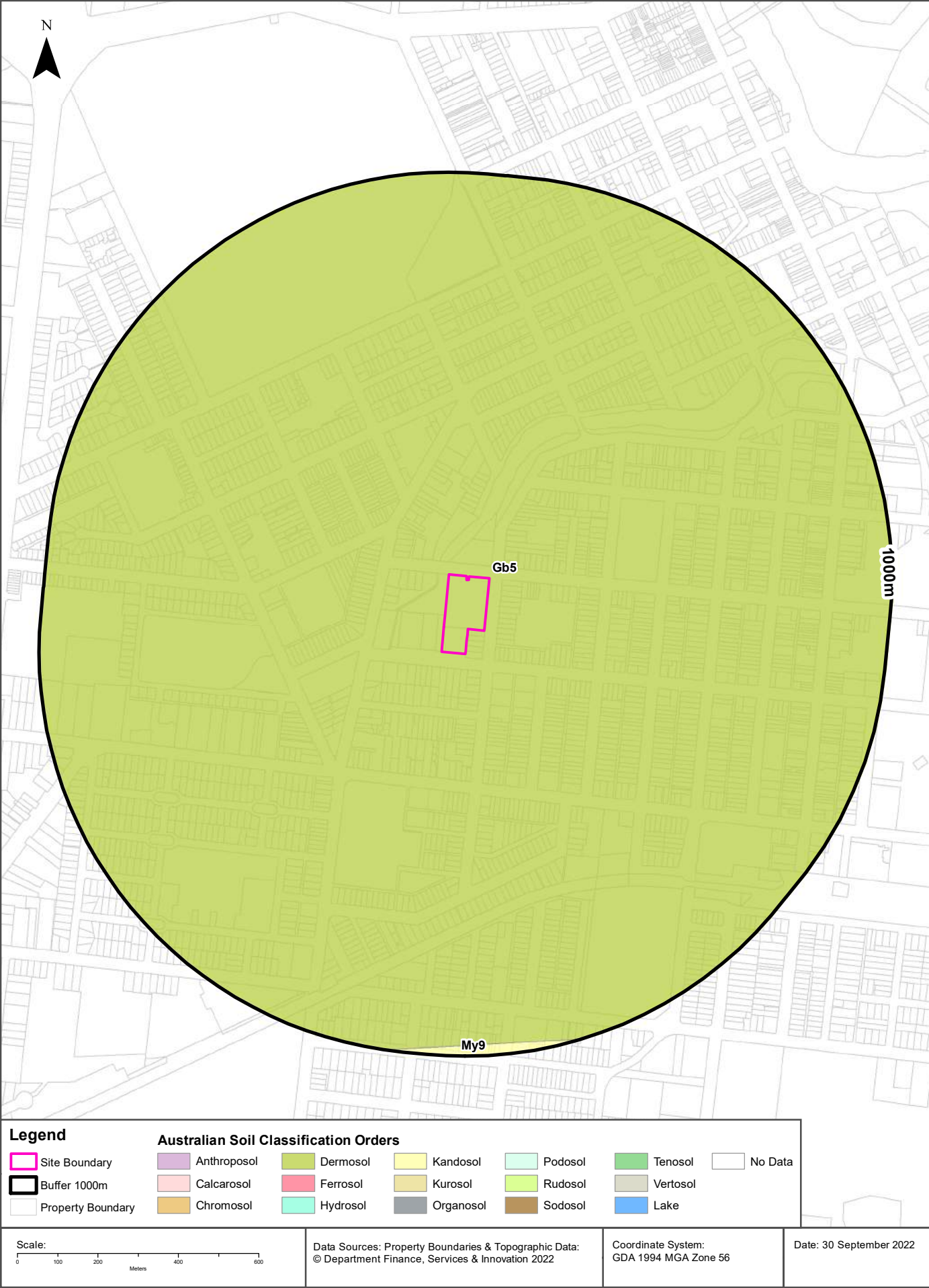
185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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



Soils

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

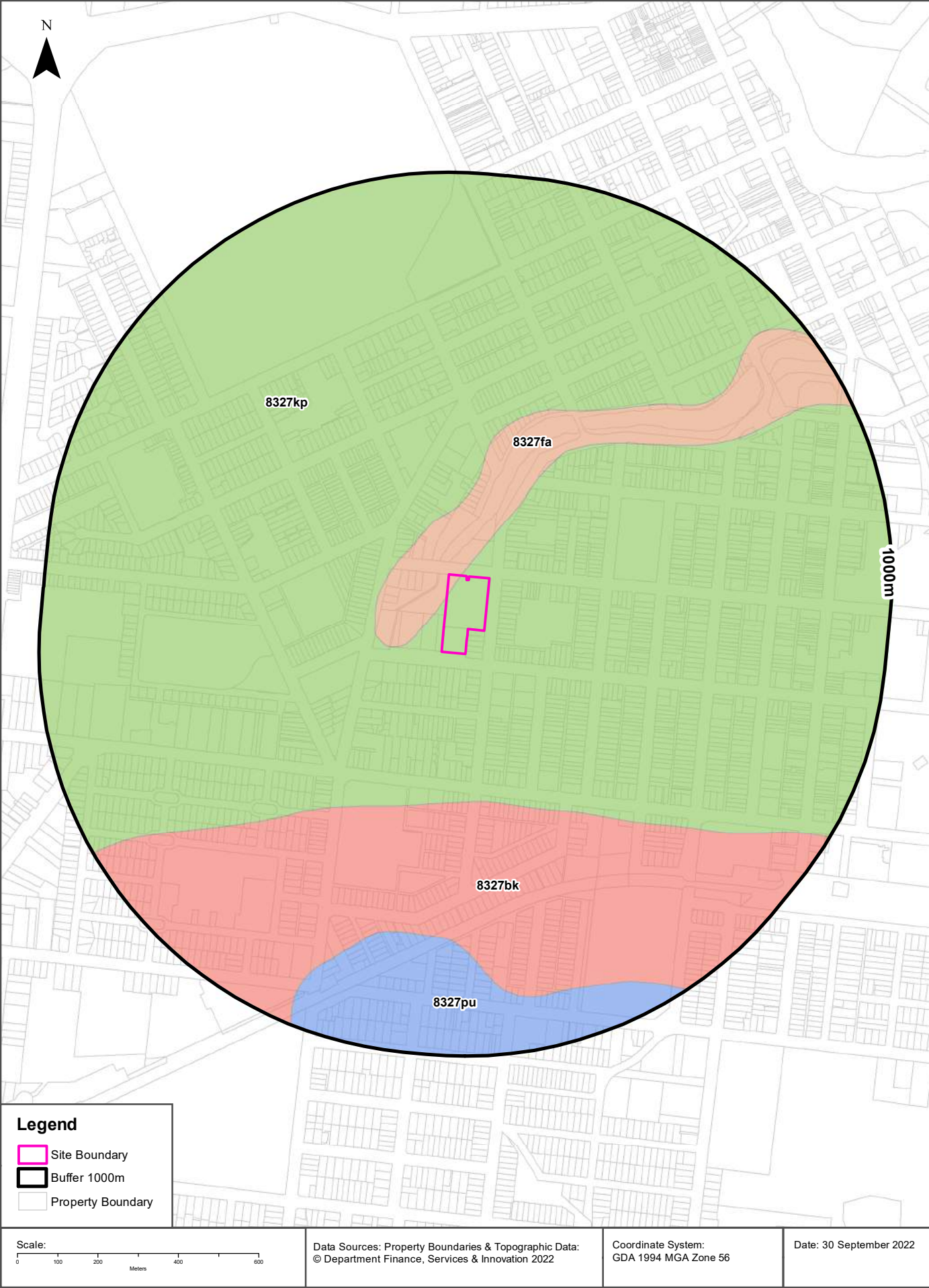
Atlas of Australian Soils

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

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Gb5	Dermosol	River terraces and flood-plains with lagoons and swamps, well drained to poorly drained, some areas subject to periodic inundation: chief soils are probably dark porous loamy soils (Um6.11) on terraces and levee formations with various (Uc) and (Um) soils on present flood-plains. Associated are variable areas of the soils recorded for unit Va15 on terrace remnants and adjoining slopes. Data are limited. As mapped, areas of soils of the adjoining units may be included.	0m	On-site
My9	Kandosol	Undulating country: chief soils are neutral and alkaline red earths (Gn2.12 and Gn2.13) with some yellow earths (Gn2.2). Associated are low shaly ridges of (Dr2.32) and (Um4.1) soils, similar to unit Qc3; and variable areas of (Dr2.33) soils. As mapped, areas of units Qc3 and Ub44 are included. Some ironstone gravels and cemented bands occur, especially in western portions of the unit. Compare unit My8, which grades into this unit. Data are limited.	971m	South

Atlas of Australian Soils Data Source: CSIRO

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Soils

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Soil Landscapes of Central and Eastern NSW

Soil Landscapes of Central and Eastern NSW within the dataset buffer:

Soil Code	Name	Distance	Direction
8327kp	Kurrajong Plain	0m	On-site
8327fa	Farnham	0m	On-site
8327bk	Becks Lane	368m	South
8327pu	Pulletop	704m	South

Soil Landscapes of Central and Eastern NSW: NSW Department of Planning, Industry and Environment

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Acid Sulfate Soils

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Environmental Planning Instrument - Acid Sulfate Soils

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

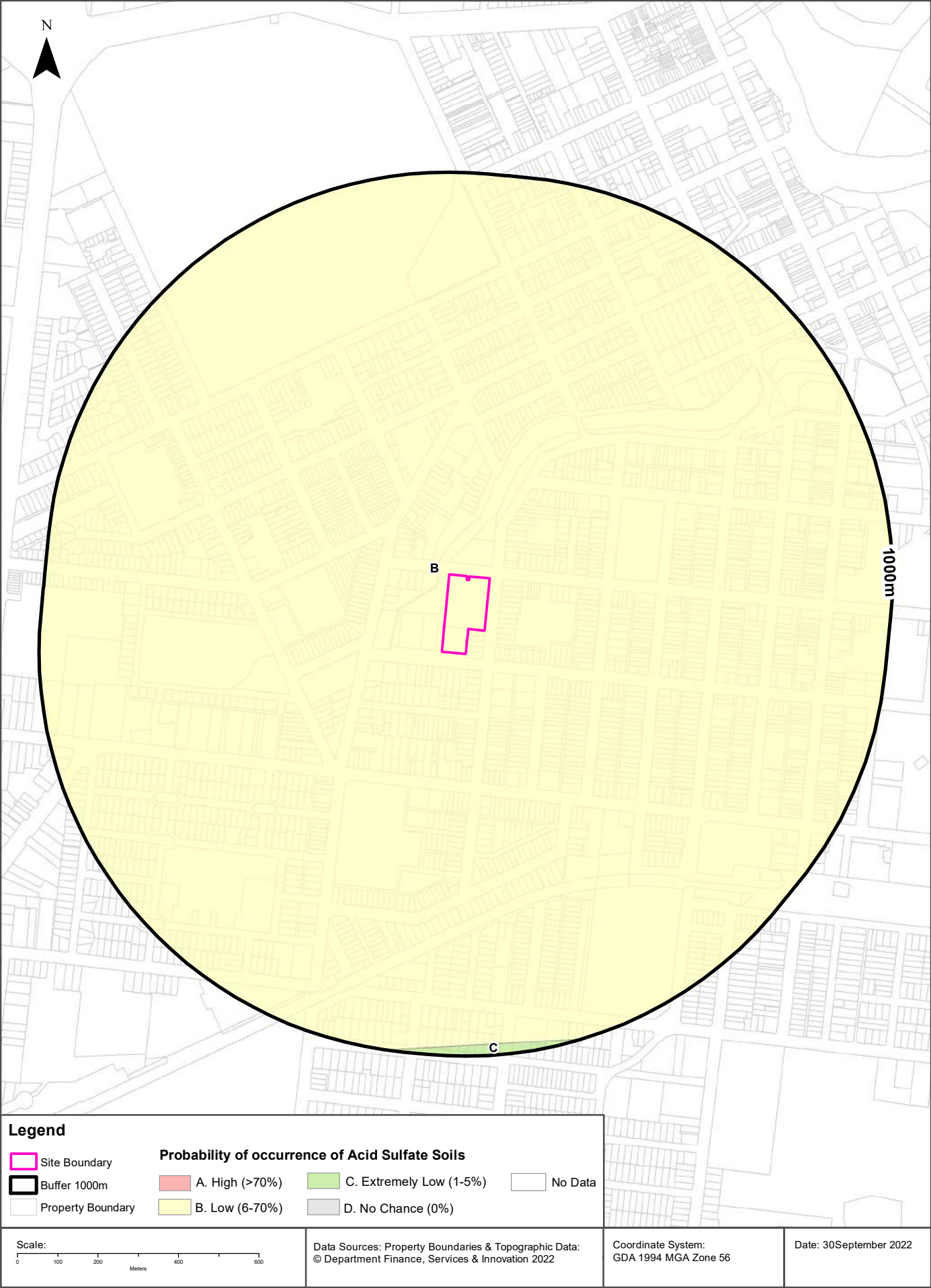
Soil Class	Description	EPI Name
N/A		

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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Acid Sulfate Soils

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Atlas of Australian Acid Sulfate Soils

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

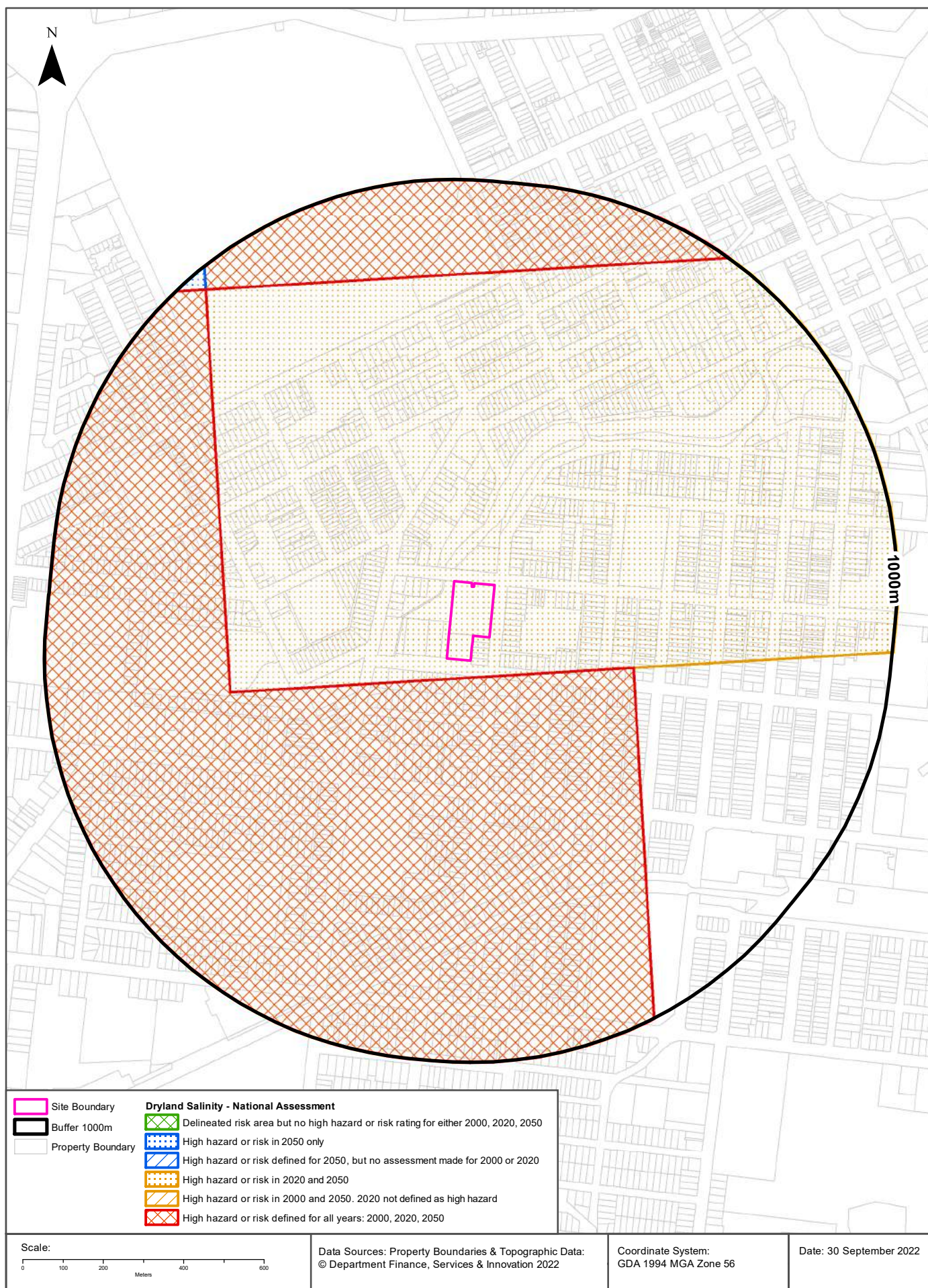
Class	Description	Distance	Direction
B	Low Probability of occurrence. 6-70% chance of occurrence.	0m	On-site
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	972m	South

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Dryland Salinity

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Dryland Salinity

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

Yes

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

Yes

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
-	High hazard or risk	High hazard or risk	0m	On-site
High hazard or risk	High hazard or risk	High hazard or risk	43m	South West
-	-	High hazard or risk	954m	North West

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

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Mining Subsidence Districts

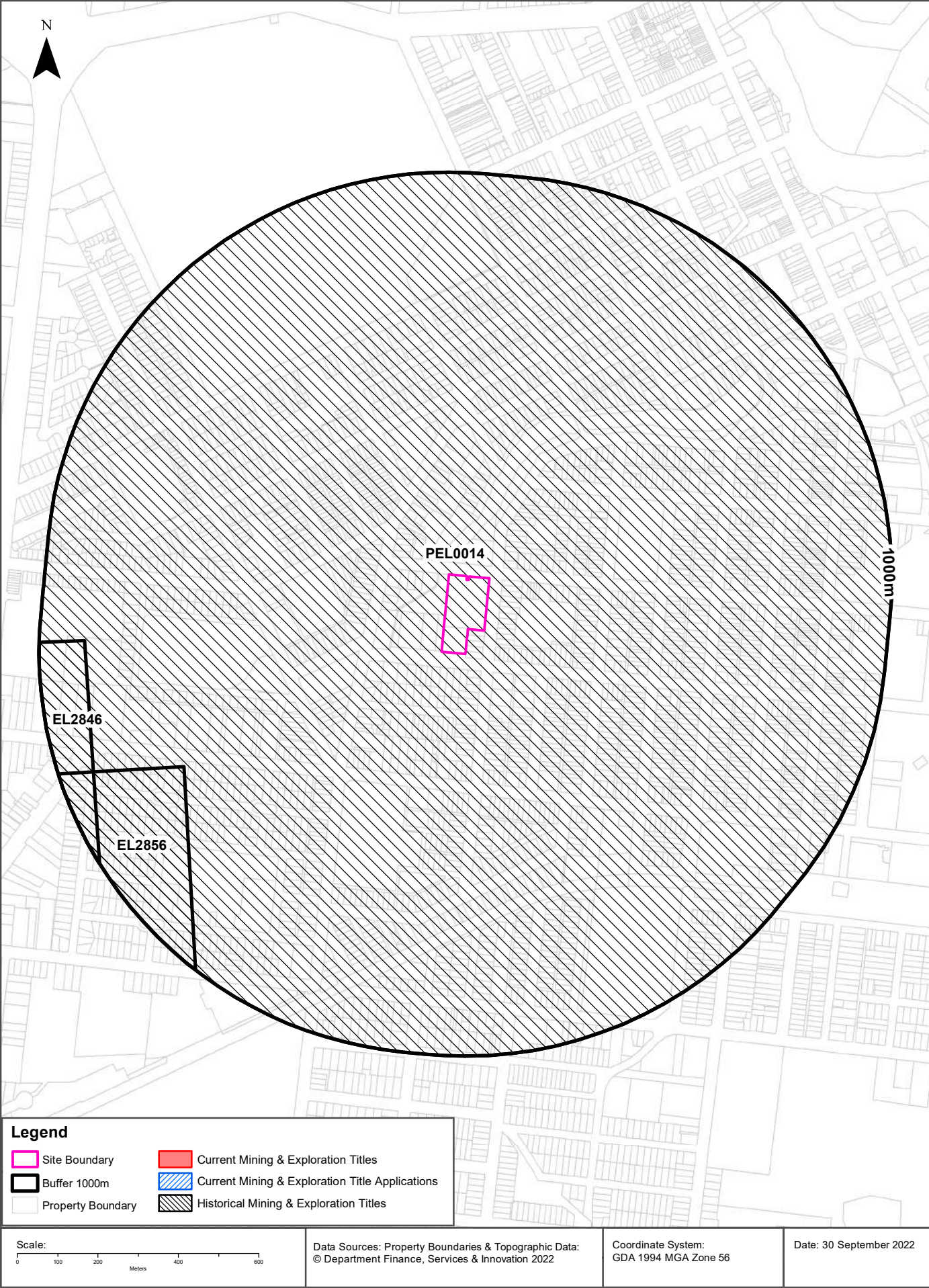
Mining Subsidence Districts within the dataset buffer:

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

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Mining

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
PEL0014	KNIGHT INDUSTRIES PTY LTD,PETROLEUM DEVELOPMENT PTY LTD	10/03/1996	10/02/1998	PETROLEUM	Petroleum	0m	On-site
EL2856	AUSTRALIAN PLATINUM & GOLD PTY LIMITED	01 Nov 1986	01 Nov 1987	MINERALS	Au Cu Pb Zn	701m	South West
EL2846	CYPRUS MINES CORPORATION	01 Nov 1986	01 Mar 1988	MINERALS	Au	883m	West

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

State Environmental Planning Policy

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

State Significant Precincts

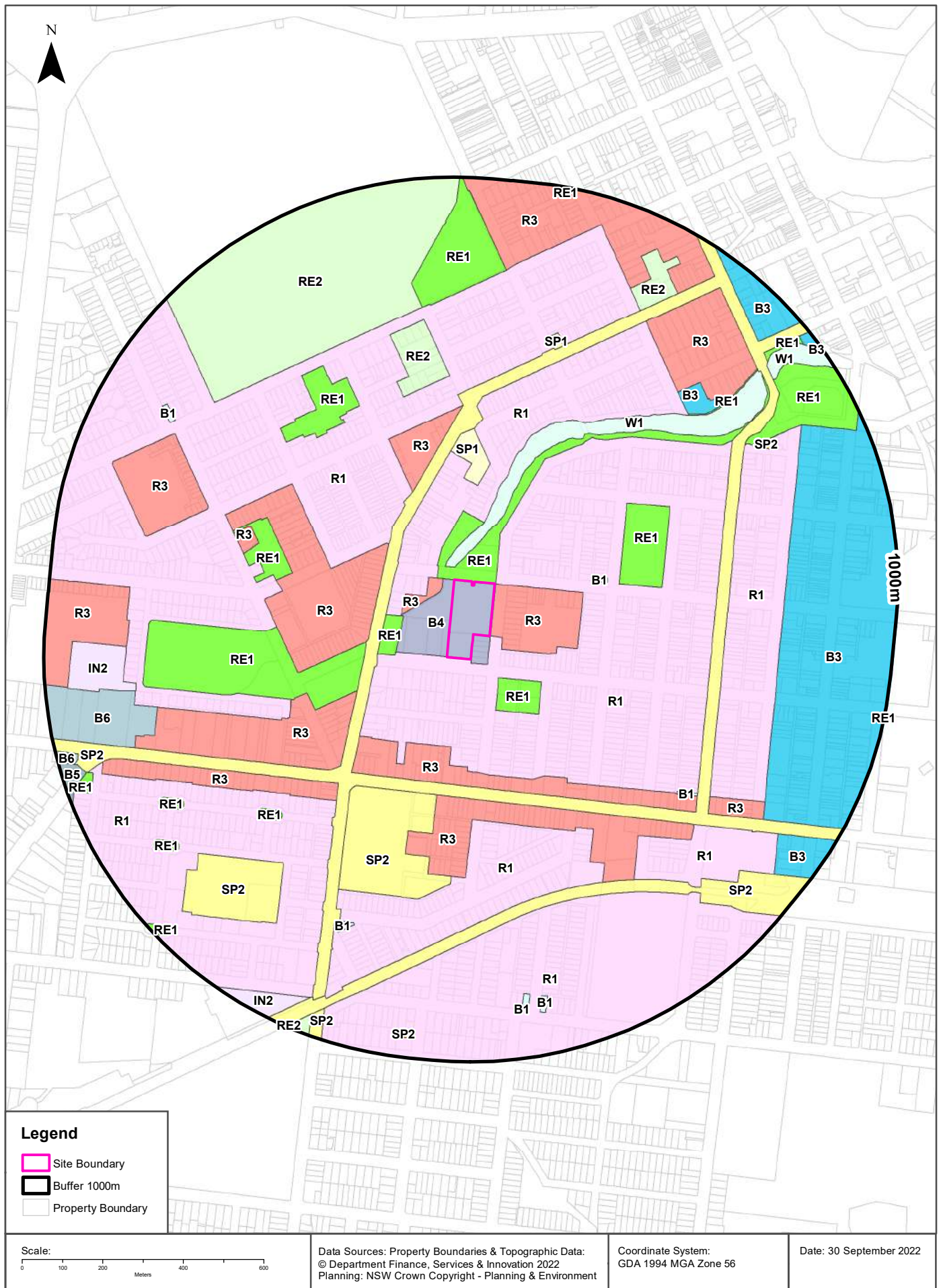
What SEPP State Significant Precincts exist within the dataset buffer?

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

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Environmental Planning Instrument

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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
B4	Mixed Use		Wagga Wagga Local Environmental Plan 2010	14/02/2020	14/02/2020	01/10/2021	Amendment No 31	0m	On-site
R1	General Residential		Wagga Wagga Local Environmental Plan 2010	14/02/2020	14/02/2020	01/10/2021	Amendment No 31	0m	East
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		0m	North East
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		0m	East
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		30m	North West
W1	Natural Waterways		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		31m	North East
R1	General Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		44m	North
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		82m	South East
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		118m	West
SP2	Infrastructure	Road	Wagga Wagga Local Environmental Plan 2010	26/10/2018	26/10/2018	01/10/2021	Amendment No 21	146m	West
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		179m	West
R1	General Residential		Wagga Wagga Local Environmental Plan 2010	08/05/2015	08/05/2015	01/10/2021	Amendment No 14	187m	North West
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		204m	West
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		221m	South
SP1	Special Activities	Defence	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		238m	North
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	08/05/2015	08/05/2015	01/10/2021	Amendment No 14	240m	South West
B1	Neighbourhood Centre		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		242m	East
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		242m	North
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		306m	East
SP2	Infrastructure	Hospital	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		343m	South
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		344m	South
R1	General Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		398m	South
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		403m	West
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		414m	South West
R1	General Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		451m	South West
RE2	Private Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		472m	North
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		476m	North West
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		495m	West

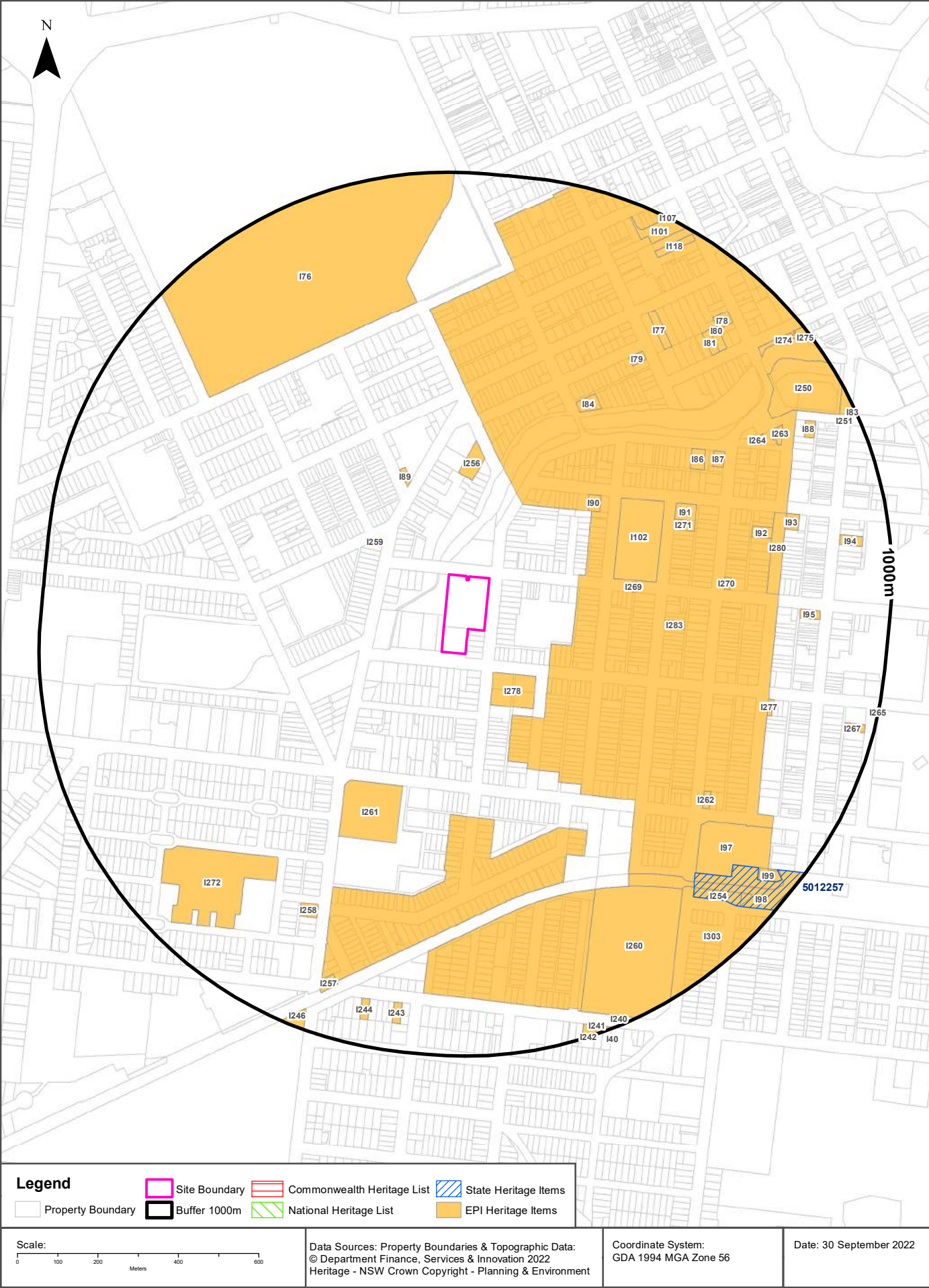
Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		565m	South West
R1	General Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		579m	East
SP1	Special Activities	Public Building	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		599m	North
R1	General Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		602m	South East
B1	Neighbourhood Centre		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		603m	South East
SP2	Infrastructure	Public Utility Undertaking	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		612m	South
B3	Commercial Core		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		636m	North East
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		636m	North East
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		638m	North West
R1	General Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		640m	South
RE2	Private Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		649m	North West
SP2	Infrastructure	Hospital	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		655m	South West
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		656m	North East
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		674m	South East
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		682m	North
B1	Neighbourhood Centre		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		700m	South
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		708m	North East
B3	Commercial Core		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		717m	East
B6	Enterprise Corridor		Wagga Wagga Local Environmental Plan 2010	08/05/2015	08/05/2015	01/10/2021	Amendment No 14	729m	West
SP2	Infrastructure	Electricity Generating Works	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		730m	North East
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		747m	South West
RE2	Private Recreation		Wagga Wagga Local Environmental Plan 2010	26/10/2018	26/10/2018	01/10/2021	Amendment No 21	767m	North East
IN2	Light Industrial		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		774m	West
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	26/10/2018	26/10/2018	01/10/2021	Amendment No 21	777m	North
R3	Medium Density Residential		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		794m	West
B1	Neighbourhood Centre		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		800m	North West
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		813m	South West
B1	Neighbourhood Centre		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		839m	South
B1	Neighbourhood Centre		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		853m	South
W1	Natural Waterways		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		855m	North East
B3	Commercial Core		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		866m	South East
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		871m	North East
B3	Commercial Core		Wagga Wagga Local Environmental Plan 2010	26/10/2018	26/10/2018	01/10/2021	Amendment No 21	886m	North East
IN2	Light Industrial		Wagga Wagga Local Environmental Plan 2010	26/10/2018	26/10/2018	01/10/2021	Amendment No 21	911m	South West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
SP2	Infrastructure	Road	Wagga Wagga Local Environmental Plan 2010	26/10/2018	26/10/2018	01/10/2021	Amendment No 21	923m	South
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		925m	South West
SP2	Infrastructure	Telecommunications	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		931m	South
B5	Business Development		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021	Amendment No 11	940m	West
B6	Enterprise Corridor		Wagga Wagga Local Environmental Plan 2010	08/05/2015	08/05/2015	01/10/2021	Amendment No 14	947m	West
RE2	Private Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		949m	South
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		963m	South West
B3	Commercial Core		Wagga Wagga Local Environmental Plan 2010	08/05/2015	08/05/2015	01/10/2021	Amendment No 14	966m	North East
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		982m	North
RE1	Public Recreation		Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	01/10/2021		997m	East

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Heritage Items

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Heritage

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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
5012257	Wagga Wagga Railway Station and yard group	Main Southern railway Wagga Wagga	WAGGA WAGGA	02/04/1999	01279	2739	789m	South East

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
1278	South Wagga Tennis Club	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	01/05/2015	01/05/2015	26/08/2022	82m	South East
	Wagga Wagga Conservation Area	Conservation Area - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	168m	East
1259	Former Corner Store	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	183m	North West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I256	Drill Hall	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	238m	North
I89	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	242m	North West
I90	Terrace Building	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	296m	North East
I102	Collins Park	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	306m	East
I261	Wagga Wagga Base Hospital (c1960 building)	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	348m	South West
I269	Water trough	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	01/05/2015	01/05/2015	26/08/2022	356m	East
	Wagga Wagga Conservation Area	Conservation Area - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	401m	South
I283	Brick Building	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	442m	East
I84	Semi-detached Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	01/05/2015	01/05/2015	26/08/2022	470m	North East
I271	Residence "Moonbiana"	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	472m	East
I91	Residence (former Home of Compassion)	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	482m	North East
I86	Brewery (former)	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	566m	North East
I270	Corner Store and Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	580m	East
I87	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	618m	North East
I79	Residence (former)	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	636m	North East
I76	Racecourse Group of Buildings: Entrance Building, Administration Building, Grandstand etc	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	01/05/2015	01/05/2015	26/08/2022	649m	North West
I272	Calvary Hospital and Chapel	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	01/05/2015	01/05/2015	26/08/2022	655m	South West
I92	Residence (former)	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	657m	East
I260	Mt Erin Convent, Chapel, High School and Grounds	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	666m	South East
I262	Former Corner Store	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	674m	South East
I98	Railway Station and Yard Group	Item - General	State	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	679m	South East
I280	Palm Tree Avenue	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	687m	East
I258	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	701m	South West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I77	Headmasters Residence (former)	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	714m	North East
I97	South Wagga Public School	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	722m	South East
I277	Corner Store and Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	724m	East
I264	Electrical Substation	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	730m	North East
I93	Residence (former)	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	742m	East
I95	Union Club Hotel	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	774m	East
I263	Fire Station Building and Residence (former)	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	781m	North East
I81	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	781m	North East
I80	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	800m	North East
I250	Victory Memorial Gardens	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	01/05/2015	01/05/2015	26/08/2022	804m	North East
I254	Best Street Railway Gatehouse (former)	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	813m	South East
I78	Dorset Cottage	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	838m	North East
I257	Former Docker Street Railway Gatehouse	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	846m	South
I88	The Manor	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	855m	North East
I94	Plaza Theatre	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	870m	East
I274	Canary Island Palm Trees (along the lagoon)	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	871m	North East
I243	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	878m	South
I244	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	882m	South
I118	House	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	899m	North East
I99	Stationmasters Residence (former)	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	901m	South East
I303	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	913m	South East
I101	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	921m	North East
I267	Residential Flats Wilstone Court	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	922m	East

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I246	Wagga Wagga Showground, Kyeamba Smith Hall and Grandstand	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	949m	South
I242	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	964m	South
I275	Ambulance Station	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	970m	North East
I241	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	978m	South
I40	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	01/05/2015	01/05/2015	26/08/2022	986m	South
I83	Council Chambers (former)	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	01/05/2015	01/05/2015	26/08/2022	987m	North East
I251	Civic Precinct	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	01/05/2015	01/05/2015	26/08/2022	987m	North East
I240	Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	01/05/2015	01/05/2015	26/08/2022	996m	South
I265	Robertson Oval Gates and Ticket Boxes	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	997m	East
I107	Belmore House, Residence	Item - General	Local	Wagga Wagga Local Environmental Plan 2010	16/07/2010	16/07/2010	26/08/2022	1000m	North East

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Natural Hazards

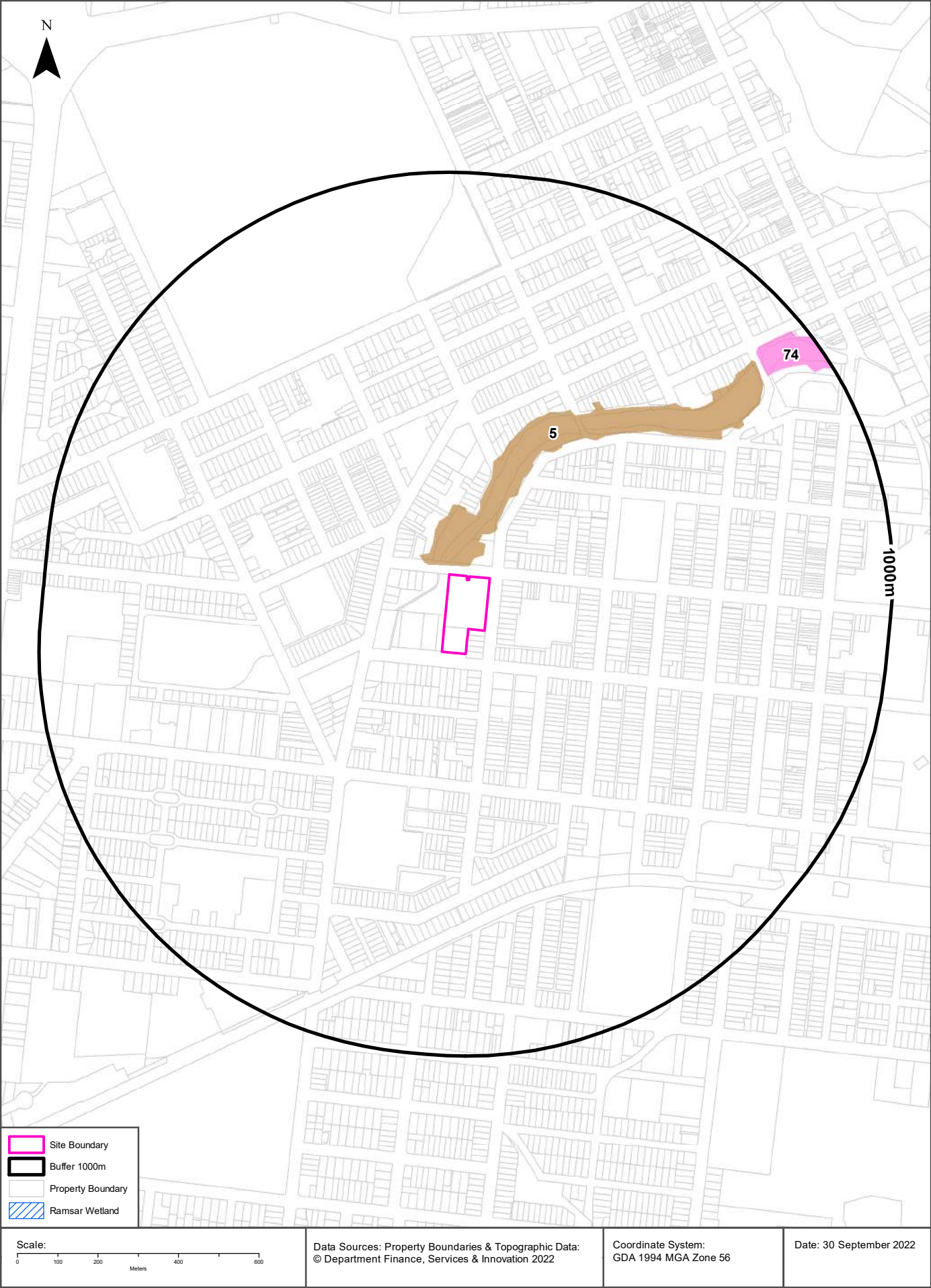
185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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
No records in buffer		

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



Ecological Constraints

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Vegetation of Central-Southern NSW

What Vegetation of Central-Southern NSW exists within the dataset buffer?

NSW VCA ID	NSW VCA Type	NSW VCA Threat Category	% VCA Type Cleared	Dominant Species	Keith Class	EPBC Act Name	EPBC Act Threat	Woody Cover	Distance	Direction
5	River Red Gum herbaceous-grassy very tall open forest on inner floodplains in the lower slopes subregion of the NSW SWS & Riverina Bioregion	Vulnerable	40	Eucalyptus camaldulensis	Inland Riverine Forests			10 - 20%	22m	North East
74	Yellow Box - River Red Gum tall grassy riverine woodland of NSW South West Slopes and Riverina Bioregions	Endangered	75	Eucalyptus camaldulensis, Eucalyptus melliodora	Floodplain Transition Woodlands			10 - 20%	851m	North East

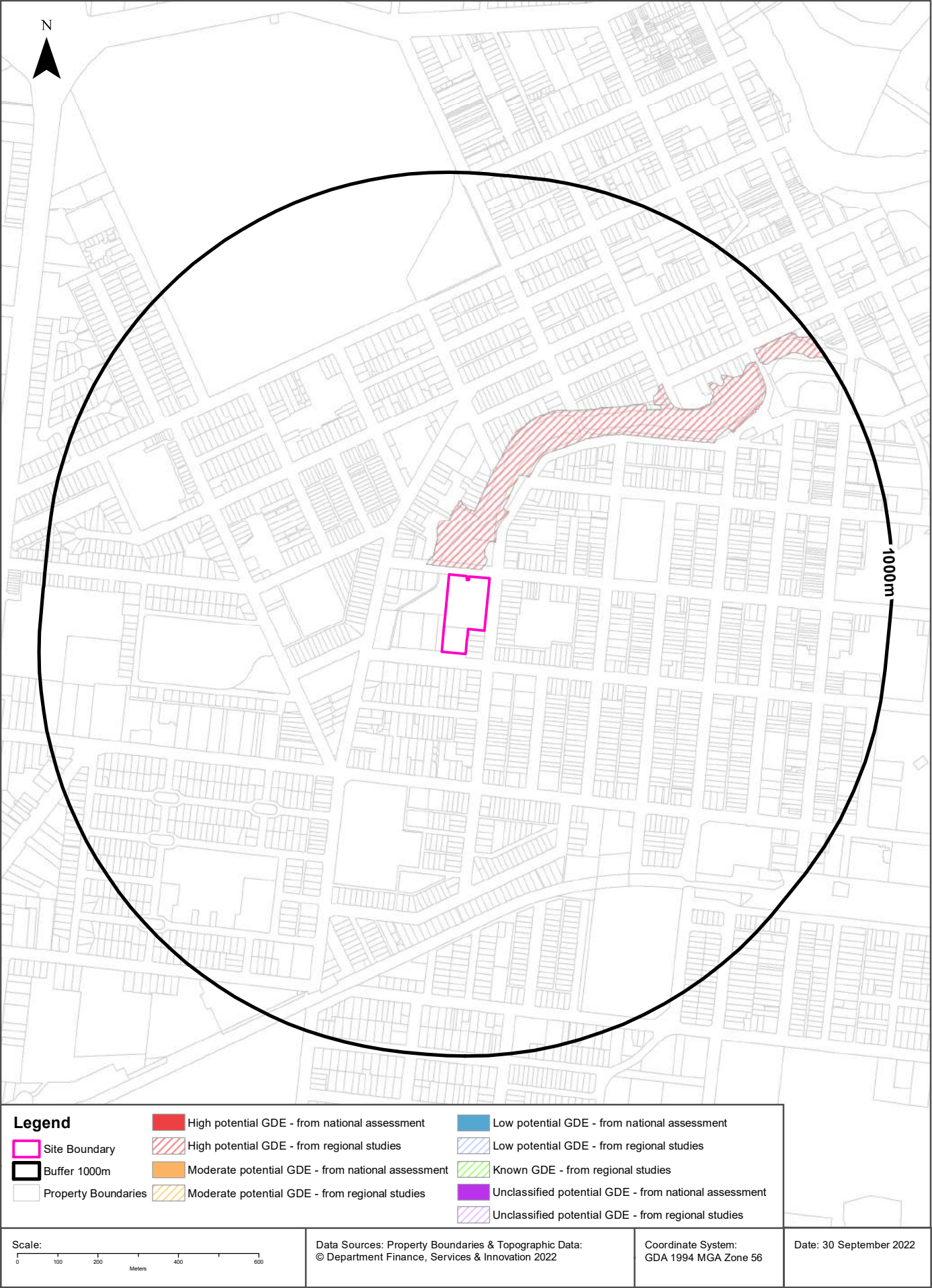
Vegetation of Central-Southern NSW Data Source: NSW Office of Environment and Heritage
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Ramsar Wetlands

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

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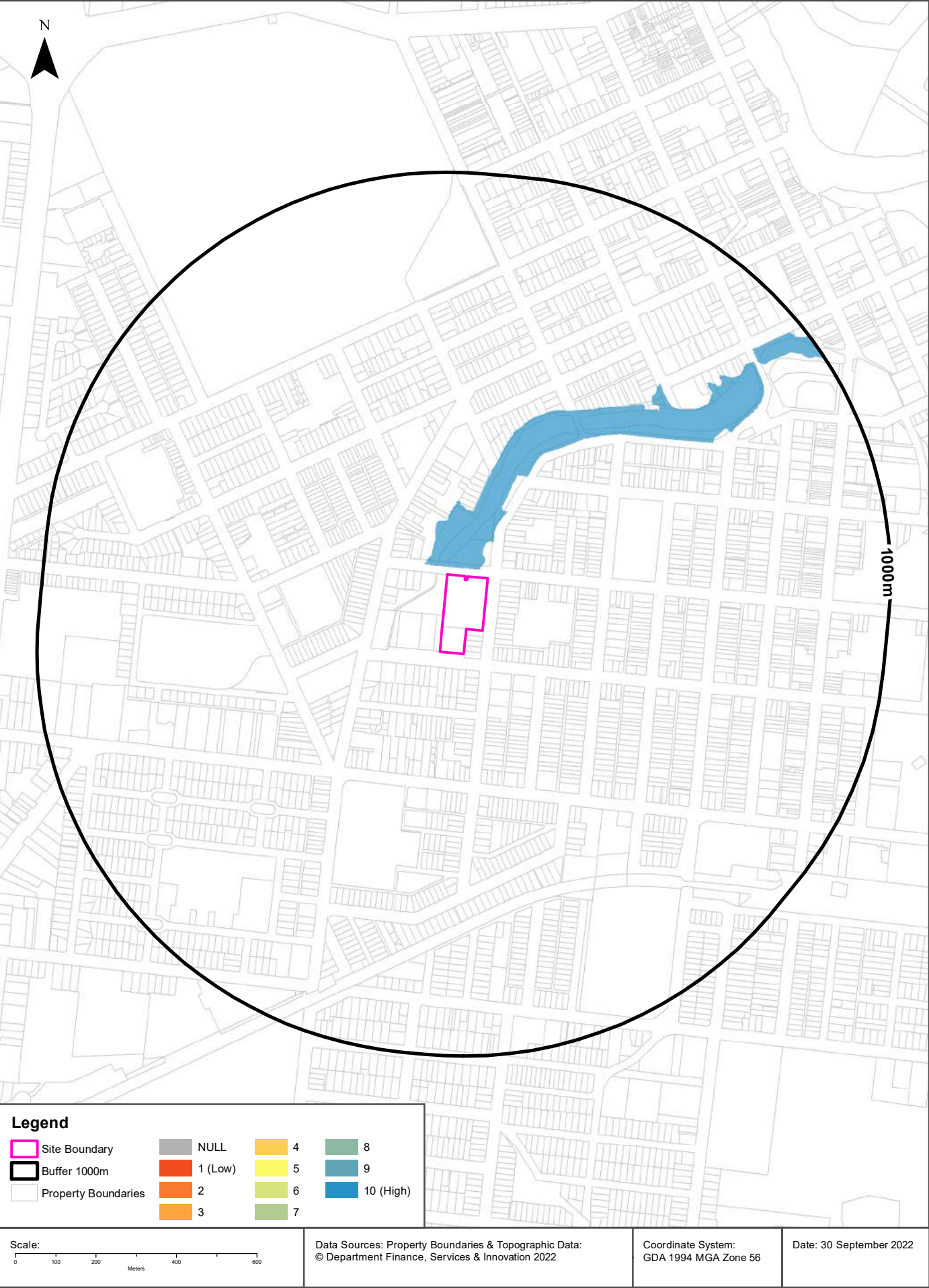
Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	High potential GDE - from regional studies	Ridges and minor tablelands stepping down westwards and breaking into detached hills with intervening alluvial valley floors. Some strong structural control on landforms.	Vegetation		18m	North East

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

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650



Ecological Constraints

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	10	Ridges and minor tablelands stepping down westwards and breaking into detached hills with intervening alluvial valley floors. Some strong structural control on landforms.	Vegetation		18m	North East

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology

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Ecological Constraints

185 Morgan Street & 80-82 Murray Street, Wagga Wagga, NSW 2650

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	Amphibia	Heleioporus australiacus	Giant Burrowing Frog	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Anthochaera phrygia	Regent Honeyeater	Critically Endangered	Not Sensitive	Critically Endangered	
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	Burhinus grallarius	Bush Stone-curlew	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Calidris acuminata	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris ferruginea	Curlew Sandpiper	Endangered	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris ruficollis	Red-necked Stint	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Vulnerable	Category 3	Endangered	
Animalia	Aves	Calyptorhynchus lathamii	Glossy Black-Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Chthonicola sagittata	Speckled Warbler	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	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	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lathamus discolor	Swift Parrot	Endangered	Category 3	Critically Endangered	
Animalia	Aves	Lophochroa leadbeateri	Major Mitchell's Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Melanodryas cucullata cucullata	Hooded Robin (south-eastern form)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Melithreptus gularis gularis	Black-chinned Honeyeater (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Oxyura australis	Blue-billed Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pachycephala inornata	Gilbert's Whistler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Phaps histrionica	Flock Bronzewing	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
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	Stagonopleura guttata	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Thinornis cucullatus cucullatus	Eastern Hooded Dotterel	Critically Endangered	Not Sensitive	Vulnerable	
Animalia	Aves	Todiramphus chloris	Collared Kingfisher	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa stagnatilis	Marsh Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Animalia	Mammalia	Macrotis lagotis	Bilby	Extinct	Not Sensitive	Vulnerable	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Endangered Population, Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheath-tail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Vespadelus baverstocki	Inland Forest Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Chelonia mydas	Green Turtle	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	Suta flagellum	Little Whip Snake	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Brachyscome muelleroides	Claypan Daisy	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus leucoxylon subsp. pruinosa	Yellow Gum	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Eucalyptus nicholii	Narrow-leaved Black Peppermint	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Persicaria elatior	Tall Knotweed	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Senecio garlandii	Woolly Ragwort	Vulnerable	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Swainsona recta	Small Purple-pea	Endangered	Not Sensitive	Endangered	

Data does not include NSW category 1 sensitive species.

NSW BioNet: © State of NSW and Office of Environment and Heritage

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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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 - (a) any indirect, incidental, consequential, special or exemplary damages arising out of or in relation to the Report or these Terms; or
 - (b) any loss of profit, loss of revenue, loss of interest, loss of data, loss of goodwill or loss of business opportunities, business interruption arising directly or indirectly out of or in relation to the Report or these Terms,
 irrespective of how that liability arises including in contract or tort, liability under indemnity or for any other common law, equitable or statutory cause of action or otherwise.
 12. These Terms are subject to New South Wales law.



APPENDIX E

Site Photographs



Plate 1: Photograph from Forsyth Street showing front of 2 of large warehouse style buildings.



Plate 2: Photograph of driveway off Forsyth Street.



Plate 3: Photograph of Australia Post building.



Plate 4: Photograph looking across carpark area within the middle of the site. South Wagga Butchery and Australia Post buildings in the mid-ground, Piercy Place building and Residential dwelling in the background.



Plate 5: Photograph of eastern driveway between large warehouse style buildings to Forsyth Street.

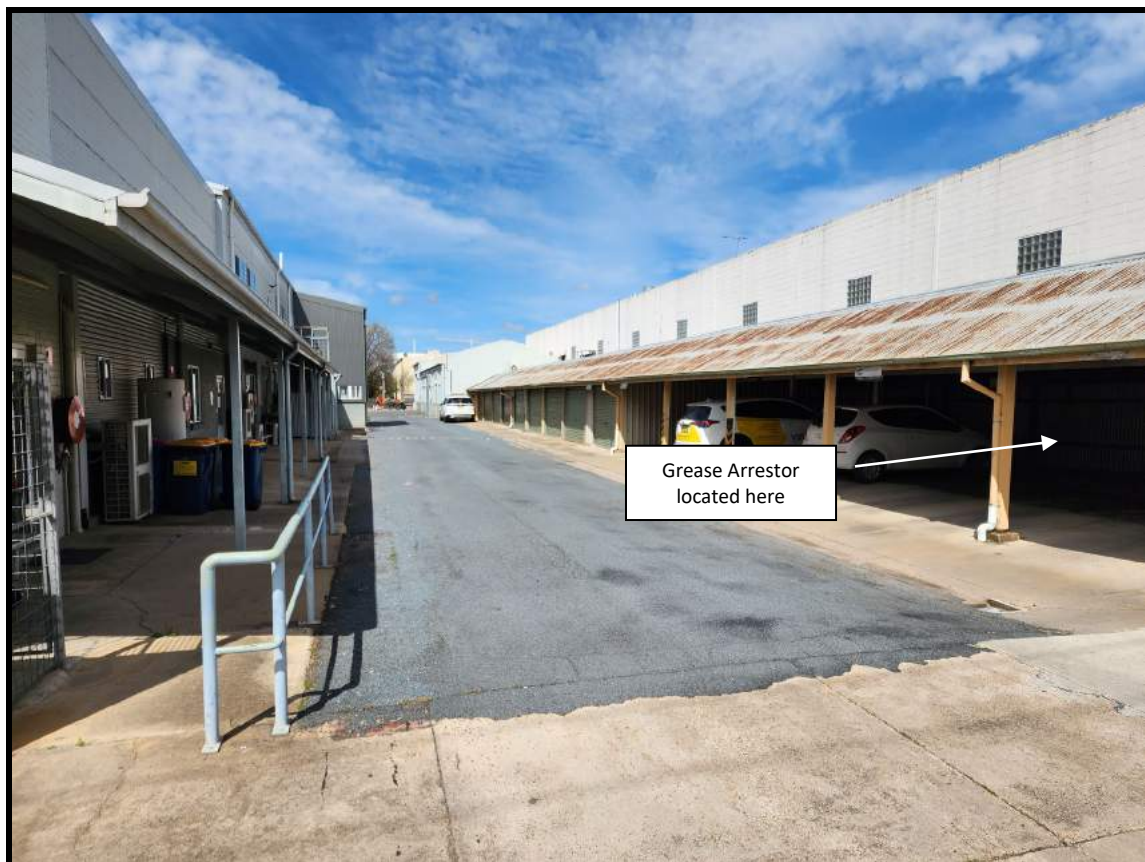


Plate 6: Photograph of eastern driveway from Forsyth Street between large warehouse style buildings.



Plate 7: Photograph of grease arrestor in garage/carport area beside Ray Ray's Diner.



Plate 8: Photograph of electrical substation building.

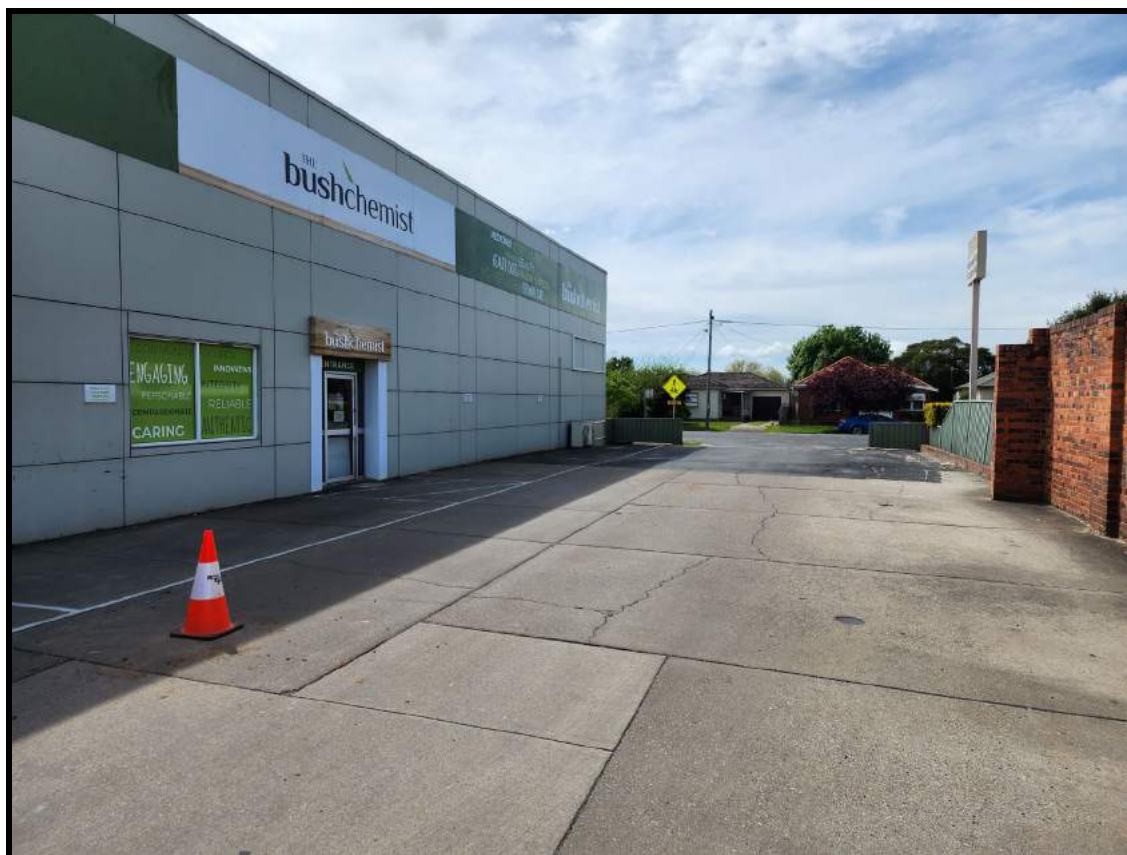


Plate 9: Photograph of northern driveway between large warehouse style building and residential dwelling to Murray Street.



Plate 10: Photograph of southern driveway from Murray Street between site residential dwelling and adjacent residential dwelling. Piercy Place and Australia Post buildings in the background.



Plate 11: Photograph from Morgan Street toward Piercy Place building.



Plate 12: Photograph from Morgan Street toward Morgan Street Dental, Headspace is located at the rear of this building.



