

# Preliminary Site Investigation

Farnell Street, Forbes, NSW

Prepared for: Land and Housing Corporation C/- ADW Johnson Pty Ltd  
EP3269.002 18 December 2023



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# Preliminary Site Investigation

Farnell Street, Forbes, NSW

Land and Housing Corporation C/- ADW Johnson Pty Ltd  
7/335 Hillsborough Road  
Warners Bay NSW 2282

18 December 2023

Our Ref: EP3269.002

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It is not possible in a Preliminary Site Investigation to present all data, which could be of interest to all readers of this report. Readers are referred to any referenced investigation reports for further data.

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Version	Author	Date	Reviewer	Date	Quality Review	Date
v1	H. Erskine	6/09/2023	P. Simpson	6/09/2023	N. McGuire	6/09/2023
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# Executive Summary

## Introduction

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EP Risk was engaged by ADW Johnson Pty Ltd (ADWJ) to undertake a desktop Preliminary Site Investigation (PSI) for the proposed subdivision for future residential development at a Site located at Farnell Street, Forbes, NSW. The PSI is required to assess contamination as required by State Environmental Planning Policy (Resilience and Hazards) 2021. The Site is legally described as Lot 7332 in DP1166365, Lot 7025 in DP1020631, Lot 7317 in DP1166614 and works within Part Lot 1 in DP1077961.

## Objective

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The PSI was required to assess whether any contaminating activities are likely to have occurred at the Site which may present a human health or ecological risk under the proposed land use (residential).

## Summary of Findings

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The summary of findings of the PSI are as follows:

- The surrounding land use and/or environmental setting is primarily residential and agricultural/rural.
- Based on the review of the historical information, the Site was formerly used for travelling stock, a gravel pit, an easement for a transmission line and a vacant reserve under crown land. The surrounding land use comprised rural / agricultural and residential land use.
- No background issues were identified at the Site.
- There was the potential for contamination and aesthetic issues at the Site associated with historical activities including the operation of a quarry, disturbed soil and fly tipping observed at the Site.

## Conclusion and Recommendations

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Based on the results and information obtained from the Site history review and desktop study, the Site is considered to present a low to medium risk of contamination. EP Risk recommends the following works:

- Sampling of soil on Site to provide a greater understanding of potential contaminants and hazards on-site.
- Anthropogenic material from historical use of the site and fly tipping should be removed from the Site prior to any vegetation clearance or earthworks activities.
- An unexpected finds protocol should be implemented during redevelopment to address any unidentified contamination that may be encountered during the proposed redevelopment works.

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# 1 Introduction

EP Risk Management Pty Ltd (EP Risk) was engaged by ADW Johnson Pty Ltd (ADWJ) to undertake a Preliminary Site Investigation (PSI) for a property located at Farnell Street, Forbes, New South Wales (NSW) (the Site). It is understood the Site is proposed to be subdivided for future residential development (Proposed Development) and the PSI is required in accordance with State Environmental Planning Policy (Resilience and Hazards). The extent of the proposed development is shown in **Appendix A**.

## 1.1 Site Identification

The Site identification details are presented in **Table 1**.

Table 1 – Site Identification	
Item	Description
Address	Farnell Street, Forbes, NSW ( <b>Figure 1</b> )
Legal description	The Site is legally described as Lot 7332 in DP1166365, Lot 7025 in DP1020631, Lot 7317 in DP1166614 and works within Part Lot 1 in DP1077961.
Approximate Area	Approximately 12.3 hectares (ha).
Municipality	Forbes Shire Council (Council)
Zoning	The Forbes Environment Plan (LEP) 2013 identifies the Site as R1 – General Residential

## 1.2 Objective

The PSI was required to assess whether any contaminating activities are likely to have occurred at the Site which may present a human health or ecological risk under the proposed residential land use.

## 1.3 Scope of Work

The scope of work completed to achieve the objective was:

- Undertake a desktop study for a Site history review, based upon:
  - Council and regulatory records;
  - Historical aerial photographs;
  - Review of business directories at the Site and surrounding land;
  - Regulatory searches, including NSW Environmental Protection Authority (EPA) Notified, Contaminated and Investigation Sites; and
  - Geological and hydrological information.
- Identify potentially contaminating activities that have occurred at the Site based on a desktop study and develop a preliminary site conceptual model (CSM).
- Preparation of a report in accordance with the NSW Environment Protection Authority (NSW EPA) (2020) *Guideline for Consultants Reporting on Contaminated Land* and the National Environment Protection (Assessment of Site Contamination) Measure 1999 (ASC NEPM 2013).

## 1.4 Technical Framework

The PSI was conducted in general accordance with:

- ASC NEPM (2013).
- NSW EPA (2017) *Guidelines for the NSW Auditor Scheme (3rd Edition)* (NSW Auditor Guidelines).
- NSW EPA (2020) *Contaminated Land Guidelines – Consultants Reporting on Contaminated Land*.
- Protection of the Environment Operations (POEO) Act 1997.
- The Forbes LEP (2013).
- State Environmental Planning Policy (Resilience and Hazards) 2021 (Resilience and Hazards SEPP).
- AS 4482.2-1999: *Guide to the investigation and sampling of sites with potentially contaminated soil, Part 2: Volatile substances*.
- Department of Urban Affairs and Planning and Environment Protection Authority (EPA) (1998) *Managing Land Contamination, Planning Guidelines, SEPP 55 – Remediation of Land*.
- Friebe, E & Nadebaum, P 2011, *Health Screening Levels for Petroleum Hydrocarbons in soil and Groundwater. Part 1: Technical development document*, CRC CARE Technical Report no. 10, CRC for Contamination Assessment and Remediation of the Environment (CRC CARE), Adelaide, Australia.
- NSW EPA (2022) *Contaminated Land Guidelines: Sampling Design part 1 – application*.
- NSW EPA (2022) *Contaminated Land Guidelines: Sampling Design part 2 – interpretation*.
- United State Environment Protection Agency (USEPA) (2006) *Guidance on Systematic Planning Using the Data Quality Objectives Process*, ref: EPA QA/G-4.

## 2 Site Condition and Surrounding Environment

The majority of information provided in the following sections was obtained from Lotsearch Environmental Risk and Planning Report (Lotsearch, 2023) which was obtained for the Site. A copy of the Lotsearch (2023) report is attached as **Appendix B**.

It should be noted that Part Lot 1 in DP1077961 was outside of the boundary of the Lotsearch (2023) report however the datasets were reviewed in respect to this additional area and summarised in the following sections.

### 2.1 Land Use and Layout

The Site comprises of a large irregular shaped portion of land, approximately 12.3 Ha in size. A desktop study of the Site was undertaken on 17 August 2023. General site features observed are summarised below:

- No structures were identified at the Site, with minor vegetation near the northern end.
- Several dirt access tracks run across the northern half of the site within Lot 7332.
- An access track connected to Dawson Street is located on the southern end of Lot 7025 and Lot 7317.
- Evidence of historically disturbed land is evidenced by a rectangular shaped discolouration of the soil and grass in the southern end of Lot 7025 and Lot 7317.

### 2.2 Surrounding Land Use

As of 31st July 2023, surrounding land uses comprised:

- North: Agricultural land zoned as RU1 - Primary Production and residential properties zoned as R1 – General Residential.
- South: Residential properties zoned as R1 – General Residential.
- East: Residential properties zoned as R1 – General Residential.
- West: Residential properties and agricultural land zoned as R1 – General Residential.

### 2.3 Environmental Setting

A summary of the information accessible through publicly available records is summarised in **Table 2** below.

Table 2 – Environmental Setting	
Record	Findings
Topography and Hydrology	The majority of the Site consists of slight rising slopes to the north. Site drainage consists of surface runoff migrating across the Site following surface contours as overland flow towards and creeks and dams in the south and west. A plan showing the topographical contours of the Site is provided within the Lotsearch (2023) Report in <b>Appendix B</b> .
Geology	Based on the geological data sourced from the NSW Department of Industry, Resources and Energy (Lotsearch, 2023) the Site is underlain by a mixture of Colluvial, aeolian, alluvial and residual deposits comprising Quaternary aged sediments.
Soil Landscapes	Based on the soil landscapes data sourced from the NSW OEH (Lotsearch, 2023) the Site is located within the Kandosol soil order. The soil landscapes are the Bald Hill Landscape which covers an area of narrow elongate crests, ridges and gently inclined sideslopes at Forbes and south and west of Forbes on predominately sandstones. The main soils are widespread shallow, rapidly drained Lithosols. Shallow well-drained Red Earths and occasional shallow well-drained Red Podzolic Soils occur on sideslopes.
Hydrogeology	A search of the NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation undertaken by Lotsearch (2023) indicated there were no registered groundwater bores located on-site. However, 60 registered groundwater bores were located within 2 km of the Site. The authorised purpose of the bores were for water supply, monitoring and stock and domestic and the depth ranged from 2.30 m below ground level (m BGL) and 74 m BGL. Standing water levels and salinity were reported for select bores on the bore report. Standing water levels ranged from 1.11 m BGL to 26 m BGL and salinity ranged from 2010 mg/L to 8100 mg/L. Review of the Hydrogeology Map of Australia, Lotsearch (2023) identified fractured or fissured, extensive aquifers of low to moderate productivity. Regional groundwater flow direction of the upper aquifer is expected to be to the south towards Lake Forbes and the Lachlan River.
Natural Occurring Asbestos Potential	No reported naturally occurring asbestos potential has been identified within 1 km of the Site.
Acid Sulfate Soils	Based upon a review of the Forbes LEP (2013), the Site is not located within an area mapped as an acid sulfate soil risk area. A search of the Atlas of Australian ASS database completed by Lotsearch (2023) identifies the Site to be within a Class C category for acid sulfate soils. The Class C category is considered to have an extremely low probability of ASS occurrence (1-5% chance) of occurrence.
Dryland Salinity	With reference to the Dryland Salinity Data sourced from Lotsearch (2023), the Site is located within an area of no Dryland Salinity – National Assessment data onsite.
Bushfire Prone Area	The site was not listed as a bush fire prone area.
Ecology	According to NSW OEH, the majority of the site has no ecological constraints. One low groundwater dependent ecosystem (Vegetation) was identified on-site in the northwestern corner and one moderate groundwater dependent ecosystem (Vegetation) was identified 15m North-west. No RAMSAR wetlands existed on-site or within 1 km of the site.
Waste Management Facilities	No waste management facilities were identified within 1 km of the Site.

Table 2 – Environmental Setting	
Record	Findings
National Liquid Fuel Facilities	There were no national liquid fuel facilities listed within 1 km of the Site.
Mining Subsidence	With reference to the Mining Subsidence District Data sourced from Lotsearch (2023), the Site is not located within a mining subsidence district.
Mining and Exploration Titles	Two current mining and exploration titles exist at or within 1km of the site, identified for minerals resources – Group 1. <ul style="list-style-type: none"> <li>• Godolphin Tenements Pty Ltd; Current expiry date 05/05/2023 and last renewed 05/05/2023, operation is exploring – 0m on-site.</li> <li>• Strategic Energy Resources Limited; Current expiry date 09/03/2025, operation is exploring – 20m south.</li> </ul>
Cattle Dips	No records of cattle dips were recorded at or within 1 km of the Site according to a search of the Department of Primary Industries Data Base.
Former Gasworks	No former gasworks have been identified at or within 1 km of the Site.

## 2.4 Regulatory Searches

A summary of the regulatory searches performed by Lotsearch (2022) are summarised in **Table 3**.

**Table 3 – Regulatory Searches**

Search	Results
Contaminated Land	The Site was not listed as contaminated under the Contaminated Land Management Act (CLM Act) 1997. As of 26.07.23 the Site was not listed on the NSW Environment Protection Authority (NSW EPA) Record for Contaminated Sites notified to the NSW EPA in accordance with the CLM Act 1997. No sites notified to the NSW EPA were located within 1 km of the Site.
Licensed Activities under the Under the Protection of the Environment Operations Act 1997	<p>Licensed activities under the POEO Act at or within 1 km of the Site are:</p> <ul style="list-style-type: none"> <li>Australian Rail Track Corporation Limited, for activities related to railway systems activities – located 914 m south east.</li> </ul> <p>The licensed activities are considered to present a low risk of contamination based upon the nature of the activities, separation distance and downgradient location.</p>
Delicensed Activities Still Regulated by the NSW EPA	No delicensed activities still regulated by the NSW EPA were identified at or within 1 km of the Site.
Former Licensed Activities under the POEO Act 1997, now revoked or surrendered	<p>Former licensed activities under the POEO Act now revoked or surrendered were not identified at the Site.</p> <p>There were five (5) records of Former Licensed Activities under the POEO Act 1997, now revoked or surrendered, located within 1 km of the Site as follows:</p> <ul style="list-style-type: none"> <li>Luhrmann Environment Management Pty Ltd, for Waterways Throughout NSW, surrendered for non-scheduled activity- application of Herbicides, surrendered 06/09/2000 – located within Part Lot 1 in DP1077961.</li> <li>Robert Orchard for Various Waterways throughout New South Wales – Sydney NSW 2000, Surrendered 07/09/2000 for Other Activities / Non-Scheduled Activity - Application of Herbicides – located within Part Lot 1 in DP1077961.</li> <li>Sydney Weed and Pest Management Pty Ltd for Waterways throughout NSW – Prospect NSW 2148. Surrendered 09/11/2000 for Other Activities / Non-Scheduled Activity - Application of Herbicides – located within Part Lot 1 in DP1077961.</li> <li>Swift Australia (Southern Pty Limited), for Newell Highway Forbes, NSW,2871. Surrendered 11/09/2000 for rendering or fat extraction – located 857m east.</li> <li>Swift Australia (Southern Pty Ltd) for Newell Highway Forbes, NSW,2871. Surrendered 11/09/2000 for slaughtering or processing animals – located 857m east.</li> </ul> <p>The former licensed activities are considered to present a low risk of contamination based upon the separation distance, downgradient location and / or nature of the activities.</p>
NSW EPA per- and poly-fluoroalkyl substances (PFAS) Investigation and Management Programs	No sites under the NSW PFAS Investigation Program, Defence PFAS Investigation Program, Defence PFAS Management Program or Airservices Australian National PFAS Management Program were identified at or within 1 km of the Site.
Defence 3 Year Regional Contamination Investigation Program	No sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program were identified within 1 km of the Site.

**Table 3 – Regulatory Searches**

Search	Results
Heritage	<p>One Environmental Planning Instrument (EPI) heritage item was identified within 1 km of the site:</p> <ul style="list-style-type: none"><li>• Forbes General Cemetery under the Forbes LEP (2013) – located 574m south west.</li></ul> <p>However, based on the distance from the site and nature of activities it is not considered to pose a risk to the site or impacted by potential contamination at the site.</p>

## 3 Site History

The Site history sources utilised during the review included:

- Historical aerial photography.
- Historical business directories.
- Historical title search information.

### 3.1 Review of Historical Aerial Photos

Aerial photographs sourced from Lotsearch (2023) and Six Maps from 1955, 1965, 1974, 1983, 1989, 1998, 2006, 2010, 2011 2016 and 2022 were reviewed to identify past land uses of the Site and surroundings. **Table 4** provides a summary of the review.

Table 4 – Historical Aerial Photograph Review	
Year	Description
1955	<p><b>Site:</b> The Site was predominantly cleared of vegetation. No structures were evident at the Site during this time.</p> <p><b>Surroundings:</b> The Site was surrounded by mostly cleared agricultural and rural residential land with scattered dwellings.</p>
1965	<p><b>Site:</b> No significant changes have occurred.</p> <p><b>Surroundings:</b> Increase in residential dwellings to the south of the site.</p>
1974	<p><b>Site:</b> Evidence of access tracks across the southern end of Lot 7332. A small building was constructed on the outer southern border of Lot 7332.</p> <p><b>Surroundings:</b> Increase in residential dwellings to the south and east of the site.</p>
1983	<p><b>Site:</b> Evidence of several access tracks across the whole site.</p> <p><b>Surroundings:</b> Increase in residential dwellings to the south, east and north of the site.</p>
1989	<p><b>Site:</b> No significant changes have occurred.</p> <p><b>Surroundings:</b> Increase in residential dwellings to the north of the site.</p>
1998	<p><b>Site:</b> No significant changes have occurred.</p> <p><b>Surroundings:</b> A residential dwelling adjacent to the western boundary was constructed, and more residential dwellings were constructed to the East.</p>
2006	<p><b>Site:</b> No significant changes have occurred.</p> <p><b>Surroundings:</b> Increase in residential dwellings to the east.</p>
2011	<p><b>Site:</b> A light brown driveway/track was constructed at the southern end of the Site. A stockpile of tyres is located on both sides of this track. A grey rectangular shaped area is also located to the west of the track and tyres, likely to be associated with imported materials.</p> <p><b>Surroundings:</b> Increase in residential dwellings adjacent to the northern boundary.</p>
2012	<p><b>Site:</b> The tyres and grey rectangular area were no longer visible and the area covered with grass. The end of a cul-de-sac road was constructed at the southern end of Lot 7332.</p> <p><b>Surroundings:</b> Increase in residential dwellings adjacent to the northern boundary.</p>
2016	<p><b>Site:</b> No significant changes have occurred.</p> <p><b>Surroundings:</b> No significant changes have occurred.</p>
2022	<p><b>Site:</b> A drainage channel has been constructed in the southern portion of Lot 7025 which intersects the driveway/track at this location.</p> <p><b>Surroundings:</b> No significant changes have occurred.</p>

The aerial photographs reviewed are provided in the Lotsearch (2023) report provided as **Appendix B**.

### 3.2 Business Directory Search

No business activities were recorded at the Site however multiple business records matched to the area or road predominately including:

- Carriers and/or cartage contractors.
- Bus operators.
- Plumbers, gas fitters and drainlayers.
- Bottled gas suppliers.
- Builders and/or building contractors.
- Soft Drinks and/or cordial.
- Plasterers.
- School and colleges.
- Painters, paper hangers and decorators.
- Local bodies.
- Milk vendors.
- Butchers – retail.

No records of garages or dry cleaners were recorded onsite or matched to the area or roads.

### 3.3 Historical Title Search

The historical title search completed by Lotsearch (2023) indicated that the land titles were created in 1891. Historically the land has been designated as a reserve under crown land and historically was utilised for travelling stock during 1890, and gravel pit from 1899 to 1972. The historical title search completed by Lotsearch (2023) is attached as **Appendix C**.

### 3.4 Summary of Site History

Based on the review of the historical information, the Site was formerly used for travelling stock, a gravel pit, an easement for a transmission line and a vacant reserve under crown land. The surrounding land use comprised rural / agricultural and residential land use.

## 4 Sampling and Analysis

### 4.1 Data Quality Objectives

To assess whether an appropriate sampling strategy was adopted for the PSI, EP Risk adopted the data quality objectives (DQOs) planning process as:

- Recommended in the ASC NEPM 2013.
- Required within the NSW EPA (2017), *Guidelines for the NSW Site Auditors Scheme (3rd edition)*.
- With consideration to technical details outlined in US EPA (2006) *Guidance on Systematic Planning Using the Data Quality Objectives Process*, ref: EPA QA/G-4 and AS 4482.1-2005 *Guide to the investigation and sampling of sites with potentially contaminated soil – Part 1: Non-volatile and semi-volatile compounds*.

#### Step 1 - State the Problem

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Preliminary Conceptual Site Model based on the site history review:

- **Sources** – fly tipping, uncontrolled filling, tailings from gravel pit.
- **Contaminants** – potentially metals (As, Cd, Cr Cu, Pb, Hg, Ni and Zn)<sup>1</sup>, organics (TRHs, BTEX, PAHs and OCPs/OPPs<sup>2</sup>), and asbestos fibres/fragments.
- **Media** – The current potential affected media at the Site includes soil. Based on the preliminary nature of this assessment, reporting is limited to soils on-site through a desktop study.
- **Receptors** – site maintenance workers. If developed, site workers (surface and sub-surface), residents and visitors (adults and children).
- **Pathways** – dermal contact, inhalation of dust and ingestion have been identified as the pathways of concern.

The PSI was required to assess whether any contaminating activities are likely to have occurred at the Site which may present a human health or ecological risk under the proposed land use.

#### Step 2, 3 and 5 - Goals of the Study, Required Inputs and Analytic Approach

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Given the Site is to be redeveloped into a residential development, the decision-making process for urban redevelopment Sites provided by the NSW EPA (2017) was considered in the development of the following decisions that need to be addressed.

The decision-making process for assessing urban redevelopment sites was adopted and summarised in **Table 5**.

The inputs required to make the decision are presented in **Table 6**

The Tier 1 assessment criteria for the contaminants of concern are presented in **Section 5**. These criteria have been adopted to determine whether additional assessment is required and/or whether the Site is suitable for the proposed land use.

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<sup>1</sup> Arsenic (As), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Mercury (Hg), Nickel (Ni), and Zinc (Zn).

<sup>2</sup> Total recoverable hydrocarbon (TRHs), Benzene, toluene, ethylbenzene, xylene, naphthalene (BTEXN), Polycyclic aromatic hydrocarbons (PAHs).

Confirmation that data generated by sampling and analysis are of an acceptable quality to allow reliable comparison to adopted assessment criteria as undertaken by assessment of quality assurance / quality control (QA/QC) as per the data quality indicators (DQIs) established in **Section 4.2**.

#### *Step 4 - Define the Boundaries of the Study*

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The spatial boundaries of the PSI comprised Farnell Street, Forbes, NSW. The legal description of the Site is Lot 7332 in DP1166365, Lot 7025 in DP1020631, Lot 7317 in DP1166614 and works within Part Lot 1 in DP1077961 and covers an area approximately 12.3 ha. This investigation is limited to only a desktop study due to the preliminary nature of the investigation. The approximate boundaries are shown in **Figure 1**.

Due to the project objectives, seasonality was not assessed as part of this investigation. Data was therefore representative of the timing and duration of the current investigation.

Table 5 – Goals of the Study, Required Inputs and Analytic Approach				
Decision	Rule	Inputs/Media	Associated AECs	CoPCs
Has soil been assessed against relevant health investigation levels (HILs) and health screening levels (HSLs), and has potential for migration of contamination been considered?	The potential for soil impacts will be assessed via a desktop study. Therefore, no analytical data will be available to be compared against the adopted health and ecological criteria. Where potential contaminating activities are found then additional assessment will be required.	Desktop study and historical records	Fly tipping  Fuel and chemical wastes from mobile plants,  Tailings from historical gravel pit.	Metals (As, Cd, Cr Cu, Pb, Hg, Ni and Zn),  Organics (TRHs, BTEX, PAHs and OCPs/OPPs <sup>3</sup> ),  Asbestos fibres/ fragments.
Are there any issues relating to local area background soil concentrations that exceed relevant investigation levels have been adequately addressed in the site assessment report(s)?	If any potential off-site sources of contamination have been identified, then additional assessment will be required.	Desktop study and historical records	N/A	
Are there impacts of chemical mixtures?	Where potential contaminating activities are identified associated with chemical mixtures then additional assessment will be required.	Desktop study and historical records	N/A	
Are there any potential ecological risks? If yes, have these been assessed?	There was no data available to be compared against the adopted health and ecological criteria. Where potential contaminating activities are found then additional assessment will be required.	Desktop study and historical records	Fly tipping  Fuel and chemical wastes from mobile plants,  Tailings from historical gravel pit	Metals (As, Cd, Cr Cu, Pb, Hg, Ni and Zn),  Organics (TRHs, BTEX, PAHs and OCPs/OPPs),  Asbestos fibres/ fragments.
Are there any potential human health risks to the identified Site receptors?				
Is there any evidence of, or potential for, migration of contaminants from the site? Has this been appropriately addressed, including potential risks to off-site receptors, and reported to the site owner or occupier?				
Are there any aesthetics issues in fill at the site?				
Is there sufficient information to accurately characterise the site contamination?	Where potential contaminating activities are identified during the desktop study then additional assessment will be required.			
Is further investigation required?				
Is a site management strategy required?				

<sup>3</sup> Total recoverable hydrocarbon (TRHs), Benzene, toluene, ethylbenzene, xylene, naphthalene (BTEXN), Polycyclic aromatic hydrocarbons (PAHs)

### *Step 6 – Specify Performance or Acceptance Criteria*

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As per EPA (2022) Step 6 of the DQOs process establishes quantitative criteria known as performance or acceptance criteria:

- for decision problems, these are typically tolerable limits on the probability or chance (risk) of the collected data leading to making an erroneous decision (e.g. confidence levels)
- for estimation problems, these are typically an acceptable uncertainty, for example, the width of an uncertainty band or interval, associated with a point estimate at a desired level of statistical confidence (e.g. confidence intervals).

Specify probability limits for false rejection and false acceptance of decision errors:

- Specify the decision rule as a statistical hypothesis test – The null hypothesis is that the material is contaminated and exceeds the adopted criteria. The alternative hypothesis is that the material is not contaminated above the adopted criteria.
- Examine consequences of making incorrect decisions from the test:
  - the material being accepted as suitable for a HIL-A land use when it is not, thereby potentially risking human health or environmental impacts.
  - unnecessary disposal of the material offsite, imposing needless financial and resource burdens on the development project and resulting in an inappropriate waste classification.
- Place acceptable limits on the likelihood of making decision errors, including acceptable alpha ( $\alpha$ ) and beta ( $\beta$ ) risk levels for tated hypotheses:
  - null hypothesis ( $H_0$ ): the 95% UCL, and other requirements, are  $>$  the action level.
  - alternate hypothesis ( $H_A$ ): the 95% UCL, and other requirements, are  $\leq$  the action level.
  - Potential outcomes include Type I and Type II errors:
    - Type I error of determining the material is acceptable for the proposed HIL-A land use when it is not (wrongly rejects true  $H_0$ ).
    - Type II error of determining the material is unacceptable for the proposed HIL-A land use when it is acceptable (wrongly accepts false  $H_0$ ).
  - For performance criteria, the acceptable limits on the likelihood of making decision errors to be applied are:
    - alpha risk (Type I error) of  $\alpha = 0.05$
    - beta risk (Type II error) of  $\beta = 0.2$ .

No previously collected data are available for use, therefore acceptance criteria are not required.

## 5 Discussion

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017) and present in **Table 5**, the decisions required to be made are detailed below.

### *Are there any unacceptable risks to future onsite or offsite receptors from impacted soil?*

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A number of potential contaminating activities were identified during the desktop study at the Site including fly tipping, fuel and chemical wastes from mobile plants, tailings from the historical gravel pit.

### *Are there any background issues?*

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No background issues were identified during the desktop study.

### *Are there impacts of chemical mixtures?*

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No impacts from potential chemical mixtures were identified at the site during the desktop study.

### *Is there any evidence of, or potential for, migration of contaminants from the Site?*

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Based on the desktop study, the main potential for migration from the Site would be via surface run off. However due to the low to medium potential for historical contamination, this is considered to be low risk.

### *Are there any aesthetics issues in fill at the site?*

---

Disturbed soil was identified on the southern end of the Site during the desktop study. Historical imagery showed that a stockpile of tyres was situated close to this area. Therefore, there is a medium potential for anthropogenic materials to be found under the surface at this area.

### *Is Further Investigation Required?*

---

This investigation was limited to a desktop study only, therefore, to gain a complete understanding of the potential for contamination at the Site on-site testing of the soil is recommended.

### *Is a Site Management Strategy Required?*

---

While contamination at a level warranting management or remediation was not identified, the following is recommended to meet industry best practice during development activities:

- Sampling of soil on Site to provide a greater understanding of potential contaminants and hazards on-site.
- Anthropogenic material from historical use of the site and fly tipping should be removed from the Site prior to any vegetation clearance or earthworks activities.
- An unexpected finds protocol should be implemented during redevelopment to address any unidentified contamination that may be encountered during the proposed redevelopment works.

*Is there sufficient information to characterise the Site?*

---

EP Risk has adopted a preliminary desktop assessment and based on the historical land use and information from the desktop study the Site presents a low to medium risk of soil contamination. The PSI met the adopted data quality objectives and is therefore considered sufficient for the purposes of identifying the potential for contamination associated with the historical land use.

## 6 Refined Conceptual Site Model

A refined conceptual site model (CSM) has been developed based upon the information provided in previous sections of this report.

Contaminating activities based on the Site inspection and review of historical records, the following activities have occurred at the Site which may have resulted in the potential for contamination. These activities are summarised as follows:

- Fly tipping;
- Operation of an historical gravel pit; and
- Construction and maintenance of electrical easements.

### 6.1 Affected Media

The potential affected media at the Site is considered to be soil.

### 6.2 Human and Ecological Receptors

Sensitive receptors identified at and near the Site were considered to be:

- Site maintenance workers.
- If developed, future site workers (surface and sub-surface), residents and visitors (adults and children).
- Terrestrial fauna and flora at the Site and on adjoining land.

### 6.3 Potential and Complete Exposure Pathways

An analysis of the potential exposure pathways between the COPC and the identified human and ecological receptors are presented in **Table 6**.

Overall, based on this assessment and the conceptual site model for the proposed development there are potential complete source-pathway-receptor linkages.

Table 6 – Source-Pathway-Receptor Linkages							
Sources				Pathways	Receptors	Linkages	Summary of Findings and Comments
Primary	Secondary	Contaminants	Affected Media	Exposure Pathways			
Fly tipping	Dumping of hazardous wastes and anthropogenic materials	TRH, BTEX, PAH and heavy metals, OCP and OPP, asbestos, anthropogenic materials.	Soil	<u>Human Health</u> <ul style="list-style-type: none"> <li>Dermal contact</li> <li>Incidental ingestion</li> </ul>	<ul style="list-style-type: none"> <li>Future construction and sub-surface maintenance workers.</li> <li>Future residential/recreational users.</li> </ul>	Potentially complete	Further analytical testing required
				<u>Ecological:</u> <ul style="list-style-type: none"> <li>Uptake by flora and fauna</li> </ul>	<ul style="list-style-type: none"> <li>Terrestrial fauna and flora at the Site and on adjoining land.</li> <li>Ecosystems dependant on the downgradient Creeks and Rivers</li> </ul>		
				<u>Aesthetics:</u> <ul style="list-style-type: none"> <li>Visual amenity</li> </ul>	<ul style="list-style-type: none"> <li>Future residential/recreational users.</li> </ul>		
Historical gravel pit	Tailings Fuel and chemical wastes from mobile plants	TRH, BTEX, PAH and heavy metals	Soil	<u>Human Health</u> <ul style="list-style-type: none"> <li>Dermal contact</li> <li>Incidental ingestion</li> </ul>	<ul style="list-style-type: none"> <li>Future construction and sub-surface maintenance workers.</li> <li>Future residential/recreational users.</li> </ul>	Potentially complete	Further analytical testing required
				<u>Ecological:</u> <ul style="list-style-type: none"> <li>Uptake by flora and fauna</li> </ul>	<ul style="list-style-type: none"> <li>Terrestrial fauna and flora at the Site and on adjoining land.</li> <li>Ecosystems dependant on the downgradient Creeks and Rivers.</li> </ul>		
Electrical easement	Fuel and chemical wastes from mobile plants	TRH, BTEX, PAH and heavy metals, OCP and OPP	Soil	<u>Human Health</u> <ul style="list-style-type: none"> <li>Dermal contact</li> <li>Incidental ingestion</li> </ul>	<ul style="list-style-type: none"> <li>Future construction and sub-surface maintenance workers.</li> <li>Future residential/recreational users.</li> </ul>	Potentially complete	Further analytical testing required
				<u>Ecological:</u> <ul style="list-style-type: none"> <li>Uptake by flora and fauna</li> </ul>	<ul style="list-style-type: none"> <li>Terrestrial fauna and flora at the Site and on adjoining land.</li> <li>Ecosystems dependant on the downgradient Creeks and Rivers</li> </ul>		

## 7 Conclusion and Recommendations

EP Risk was engaged by Land and Housing Corporation c/- ADW Johnson to undertake a PSI for the proposed residential development at a Site located at Farnell Street, Forbes, NSW. It is understood the Site is proposed to be redeveloped into a residential development and the PSI is required to assess for the potential for contamination associated with historical land use.

The PSI was required to assess whether any contaminating activities are likely to have occurred at the Site which may present a human health or ecological risk under the proposed land use.

Based on the review of the historical information, the Site was formerly used as crown land. Potentially contaminating activities identified to have been undertaken at the Site include the use of the site as a gravel pit, the construction and maintenance of electrical easements and fly tipping. The surrounding land use comprised rural / agricultural and residential land use.

The desktop study, involving historical imagery and information obtained from Lotsearch (2023) and Six Maps also identified anthropogenic materials and disturbed soil visible on the surface of the Site at the southern end. Further testing is required to identify potential contamination impacts of this historical disturbance.

Overall, based on this assessment and the conceptual site model for the proposed development there are potentially complete source-pathway-receptor linkages. Therefore, the Site is considered to pose a low to medium risk of contamination to the proposed future land users.

Based upon the findings of the PSI, the following are recommended to meet industry best practice during development activities:

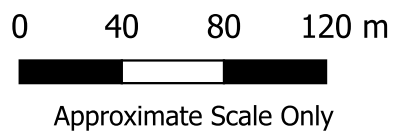
- Sampling and analytical testing of soil on Site to provide a greater understanding of potential contaminants and hazards.
- Anthropogenic material from historical use of the site and fly tipping should be removed from the Site prior to any vegetation clearance or earthworks activities.
- An unexpected finds protocol should be implemented during redevelopment to address any unidentified contamination that may be encountered during the proposed redevelopment works.

# Figures



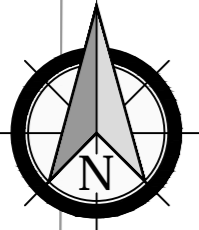
#### Legend

- Approximate Site Boundary
- 📍 Site Location



# Appendix A

## PROPOSED DEVELOPMENT PLANS

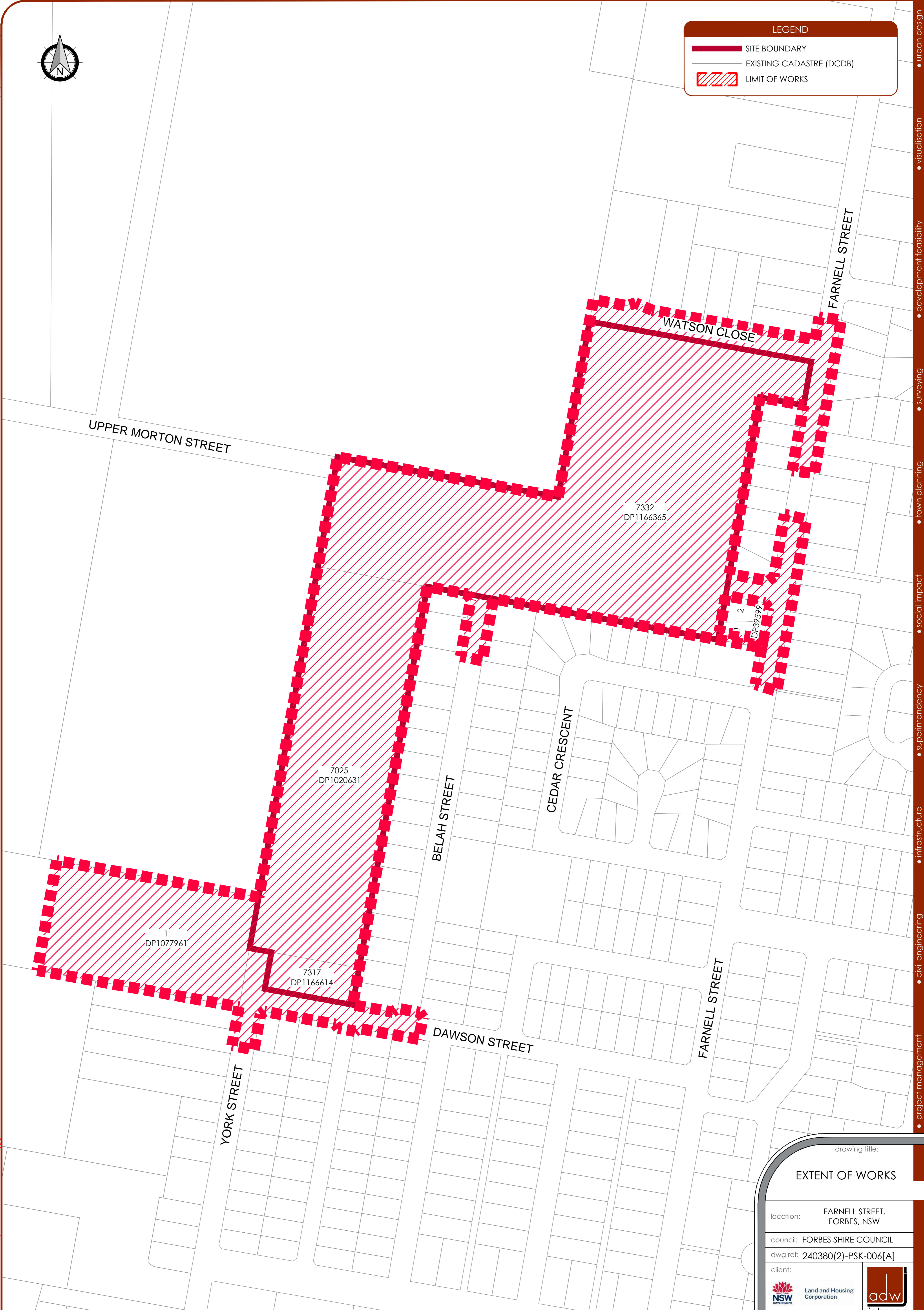


LEGEND

SITE BOUNDARY

EXISTING CADASTRE (DCDB)

LIMIT OF WORKS



ver.	date	comment	drawn	pm	co-ordinate information	level information	scale (A1 original size)	notes
A	01.08.2023	INITIAL ISSUE	MLO	MLO	CO-ORDINATE SYSTEM: MGA56 GDA2020	DATUM: AHD CONTOUR INTERVAL: N/A	A1 1:1500 0 30 60 75m A3 1:3000	

drawing title:

EXTENT OF WORKS

location:

FARNELL STREET,  
FORBES, NSW

council:

FORBES SHIRE COUNCIL

dwg ref:

240380(2)-PSK-006[A]

client:

Land and Housing  
Corporation



central coast office

ph: (02) 4305 4300

hunter office

ph: (02) 4978 5100

sydney office

ph: (02) 8046 7411

www.adwjohnson.com.au

# Appendix B

## LOTSEARCH ENVIRONMENTAL REPORT (2023)



# LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

**Date: 26 Jul 2023 12:19:12**

**Reference: LS046213 EP**

**Address: Farnell Street, Forbes, NSW 2300**

**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	17/05/2023	17/05/2023	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	14/06/2023	18/05/2023	Monthly	1000m	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority	28/06/2023	28/06/2023	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	10/05/2023	14/07/2021	Quarterly	1000m	0	0	0
Notices under the POEO Act 1997	Environment Protection Authority	04/05/2023	04/05/2023	Monthly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	23/08/2022	13/07/2012	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	14/06/2023	23/09/2022	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	09/05/2023	09/05/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	09/05/2023	09/05/2023	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	09/05/2023	09/05/2023	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	16/06/2023	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	09/06/2023	09/06/2023	Monthly	1000m	0	0	1
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	09/06/2023	09/06/2023	Monthly	1000m	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	09/06/2023	09/06/2023	Monthly	1000m	0	0	5
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	0	8	13
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	20	20
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	0	0
Points of Interest	NSW Department of Customer Service - Spatial Services	19/10/2022	19/10/2022	Quarterly	1000m	0	0	15
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	19/10/2022	19/10/2022	Quarterly	1000m	0	0	1
Tanks (Points)	NSW Department of Customer Service - Spatial Services	19/10/2022	19/10/2022	Quarterly	1000m	0	0	4
Major Easements	NSW Department of Customer Service - Spatial Services	23/05/2023	23/05/2023	Quarterly	1000m	1	2	6
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	16/02/2023	31/12/2022	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	29/08/2022	19/08/2019	As required	1000m	1	1	2
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	09/05/2023	23/02/2018	Annually	1000m	0	0	0

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	18/04/2023	13/07/2022	Annually	2000m	0	0	60
NSW Seamless Geology Single Layer: Rock Units	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	1	2	4
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	1
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	1
Soil Landscapes of Central and Eastern NSW	NSW Department of Planning, Industry and Environment	18/08/2022	27/07/2020	Annually	1000m	1	1	2
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	02/06/2023	12/05/2023	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	1	1	1
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	15/05/2023	15/05/2023	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	10/05/2023	10/05/2023	Monthly	1000m	1	2	2
Mining Title Applications	NSW Department of Industry	10/05/2023	10/05/2023	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	10/05/2023	10/05/2023	Monthly	1000m	13	15	15
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	02/06/2023	16/12/2022	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	02/06/2023	26/05/2023	Monthly	1000m	1	2	16
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	18/10/2022	01/07/2022	Quarterly	1000m	0	0	1
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	02/06/2023	26/05/2023	Monthly	1000m	0	0	1
Bush Fire Prone Land	NSW Rural Fire Service	23/06/2023	23/06/2023	Monthly	1000m	0	0	0
NSW Native Vegetation Type Map	NSW Department of Planning and Environment	26/05/2023	12/12/2022	Quarterly	1000m	3	7	36
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	09/05/2023	01/11/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	1	2	2
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	1	2	6
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	13/06/2023	13/06/2023	Weekly	10000m	-	-	-

**Farnell Street, Forbes, NSW 2300**



 Site Boundary

 Internal Parcel Boundaries

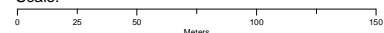
**Total Perimeter:** 2.11km

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:



Data Sources: Aerial Imagery:  
© Department of Customer Service 2020

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 26 July 2023

# Contaminated Land

Farnell Street, Forbes, NSW 2300

## List of NSW contaminated sites notified to EPA

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

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

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

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

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

## Contaminated Land

Farnell Street, Forbes, NSW 2300

### Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

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

Contaminated Land Records of Notice Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit

<http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm>

### Former Gasworks

Former Gasworks within the dataset buffer:

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

Former Gasworks Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

# Contaminated Land

Farnell Street, Forbes, NSW 2300

## EPA Notices

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

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

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

## Waste Management & Liquid Fuel Facilities

Farnell Street, Forbes, NSW 2300

### National Waste Management Site Database

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

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

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

### National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

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

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

# PFAS Investigation & Management Programs

Farnell Street, Forbes, NSW 2300

## EPA PFAS Investigation Program

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

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

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

## Defence PFAS Investigation Program

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

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

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

## Defence PFAS Management Program

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

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

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

## Airservices Australia National PFAS Management Program

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

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

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

# Defence Sites

Farnell Street, Forbes, NSW 2300

## 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

Farnell Street, Forbes, NSW 2300

### EPA Other Sites with Contamination Issues

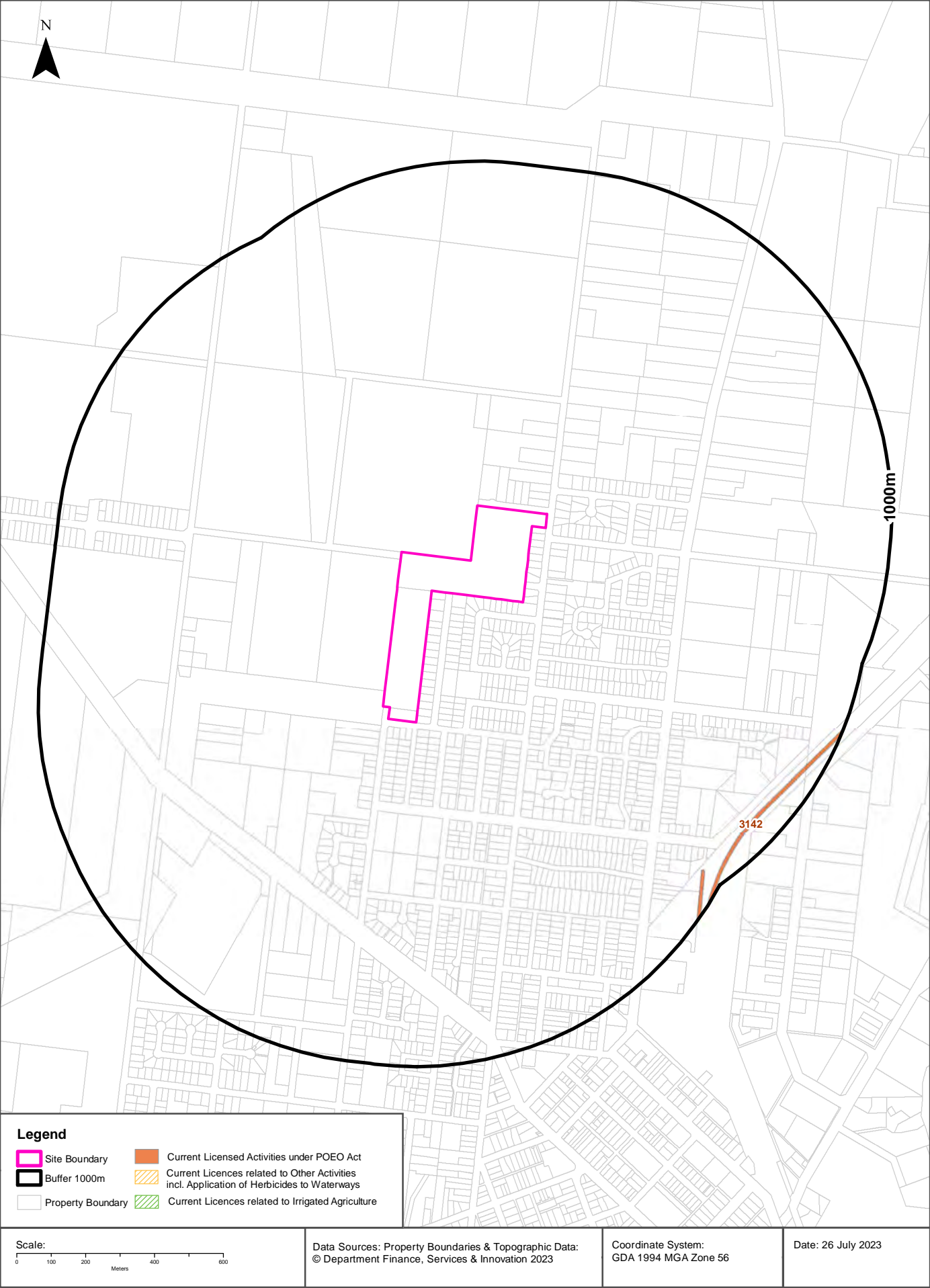
This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- 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

Farnell Street, Forbes, NSW 2300

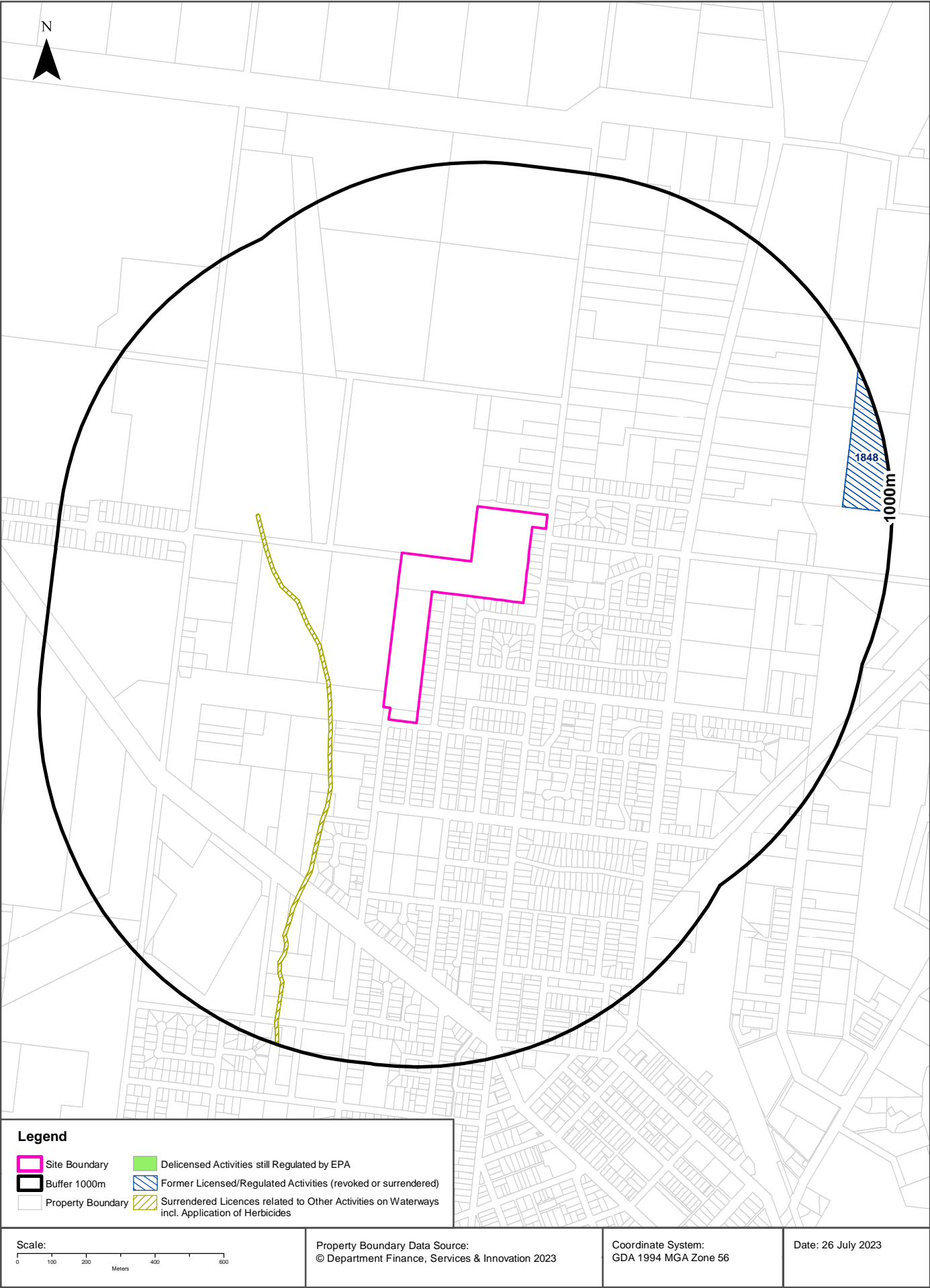
## Licensed Activities under the POEO Act 1997

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	914m	South East

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority



## EPA Activities

Farnell Street, Forbes, NSW 2300

### Delicensed Activities still regulated by the EPA

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

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

Delicensed Activities Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

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

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

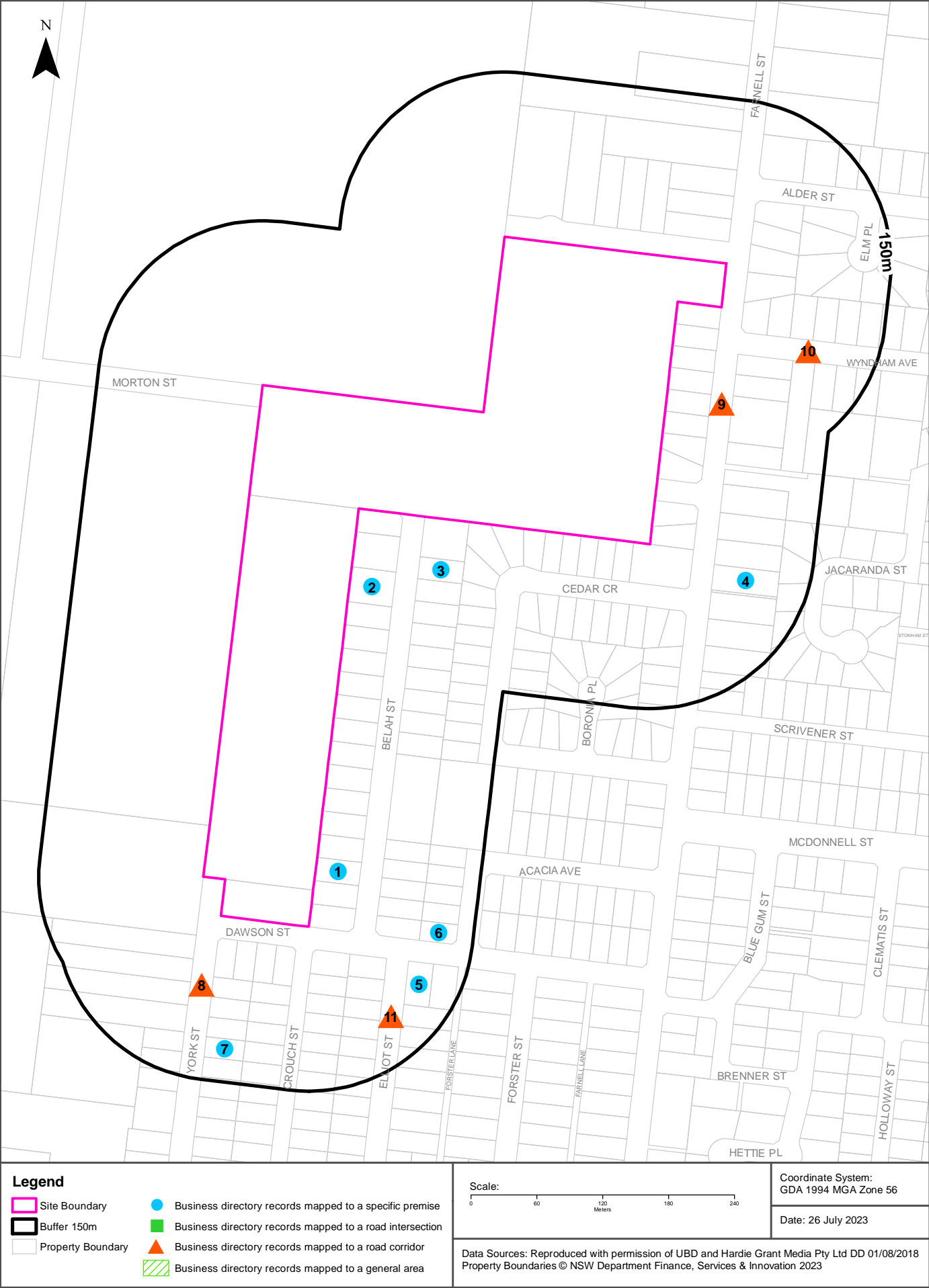
Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	149m	South West
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	149m	South 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	149m	South West
1848	SWIFT AUSTRALIA (SOUTHERN) PTY LIMITED	NEWELL HIGHWAY, FORBES, NSW 2871	Surrendered	11/09/2000	Rendering or fat extraction	Premise Match	857m	East
1848	SWIFT AUSTRALIA (SOUTHERN) PTY LIMITED	NEWELL HIGHWAY, FORBES, NSW 2871	Surrendered	11/09/2000	Slaughtering or processing animals	Premise Match	857m	East

Former Licensed Activities Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

# Historical Business Directories

Farnell Street, Forbes, NSW 2300



# Historical Business Directories

Farnell Street, Forbes, NSW 2300

## 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	CARRIERS &/OR CARTAGE CONTRACTORS	Wall R. K. & M., 6 Belah St., Forbes 2871	124781	1991	Premise Match	0m	South
	CARRIERS &/OR CARTAGE CONTRACTORS.	Wall, R. K. & M., 6 Belah St., Forbes 2871	129899	1982	Premise Match	0m	South
2	BUILDERS &/OR BUILDING CONTRACTORS.	Messrs. Hunter & Hodder, 30 Belah St., Forbes 2871	129830	1982	Premise Match	0m	South West
3	BRICKLAYERS	Redfern. T., 33 Belah St., Forbes 2871	118778	1991	Premise Match	37m	South
4	BUS OPERATORS	Henderson. D., 197 Farnell St., Forbes 2871	118821	1991	Premise Match	61m	East
	MOTOR BUS SERVICES.	Henderson, D., 197 Farrell St., Forbes 2871	130195	1982	Premise Match	61m	East
5	PLUMBERS, GASFITTERS & DRAINLAYERS	Neill, R. K. & M. J., 3 Dawson St., Forbes 2871	551205	1970	Premise Match	96m	South
	TANK & TANKSTAND MFRS. &/OR DIST.	Neill, R. K. & M. J., 3 Dawson St., Forbes 2871	551319	1970	Premise Match	96m	South
6	BOTTLED GAS - SUPPLIERS &/OR RE-FILLERS	Crocker D. C & L. G., 1 Acacia Ave., Forbes 2871	118768	1991	Premise Match	101m	South
	PLUMBERS &/OR GASFITTERS	Crocker D. C. & L G., 1 Acacia Ave., Forbes 2871	118901	1991	Premise Match	101m	South
	GAS APPLIANCES SHOWROOMS	Crocker D. C. & L. G., 1 Acacia Ave., Forbes 2871	124942	1991	Premise Match	101m	South
	PLUMBERS, GASFITTERS &/OR DRAINLAYERS.	Crocker. J., 1 Acacia Ave., Forbes 2871	130309	1982	Premise Match	101m	South
7	BUILDERS &/OR BUILDING CONTRACTORS	Taylor. R., 153 York St., Forbes 2871	118810	1991	Premise Match	111m	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
8	SIGNWRITERS	Forbes Palming Service., York St., Forbes 2871	118988	1991	Road Match	0m
	BRICKLAYERS	Messrs. Sly & Dodds., 295 York St., Forbes 2871	118776	1991	Road Match	0m
	FURNITURE REMOVALISTS &/OR STORAGE.	Griggs, Kevin Removals. 64 York St., Forbes 2871	130009	1982	Road Match	0m
9	CARRIERS &/OR CARTAGE CONTRACTORS.	Hurford, N. C., Farnell St., Forbes 2871	129886	1982	Road Match	0m
	SOFT DRINK &/OR CORDIAL MFRS. &/OR DIST.	Lachlan Valley Cordials, 22 Farnell St., Forbes 2871	130389	1982	Road Match	0m
	SCHOOLS &/OR COLLEGES - PRIVATE &/OR PUBLIC.	North Forbes Convent, Farnell St., Forbes 2871	130373	1982	Road Match	0m
	PLUMBERS, GASFITTERS & DRAINLAYERS	Coles, N. W., Farnell St., Forbes 2871	551203	1970	Road Match	0m
	CARRIERS & CARTAGE CONTRACTORS	Hurford, N. C., Farnell St., Forbes 2871	550800	1970	Road Match	0m
	SOFT DRINKS & CORDIALS MFRS.	Lachlan Valley Cordials, 22 Farnell St., Forbes 2871	551263	1970	Road Match	0m
	BRICKLAYERS & BRICKLAYING CONTRACTORS	Moriarty, W., Farnell St., Forbes 2871	550734	1970	Road Match	0m
	PLASTERERS-(SOLID) & PLASTERING CONTRACTORS	Moriarty, W., Farnell St., Forbes 2871	551200	1970	Road Match	0m
	SCHOOLS & COLLEGES-PRIVATE & PUBLIC	North Forbes Convent, Farnell St., Forbes 2871	551245	1970	Road Match	0m
	CARRIERS & CARTAGE CONTRACTORS	Carroll, Joe, Farnell St., Forbes	201704	1961	Road Match	0m
	MIXED BUSINESSES	Parslow, J. E. and L. M., Farnell St., Forbes	201984	1961	Road Match	0m
	PAINTERS, PAPERHANGERS & DECORATORS	Barter, W. J., Farnell St., Forbes	179842	1950	Road Match	0m
10	LOCAL BODIES	Central Tablelands County Council., Wyndham Ave., Forbes 2871	125084	1991	Road Match	26m
	SCHOOLS &/OR COLLEGES-PRIVATE &/OR PUBLIC	Forbes High School., Wyndham Ave., Forbes 2871	118967	1991	Road Match	26m
	BUTCHERS - RETAIL.	Belcher, A., Wyndham Ave., Forbes 2871	129847	1982	Road Match	26m
	LOCAL BODIES.	Central Tablelands County Council, Wyndham Ave., Forbes 2871	130128	1982	Road Match	26m
11	MILK VENDORS	Allen, N., Elliott St., Forbes 2871	551054	1970	Road Match	77m

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## Historical Business Directories

Farnell Street, Forbes, NSW 2300

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

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

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

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

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

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

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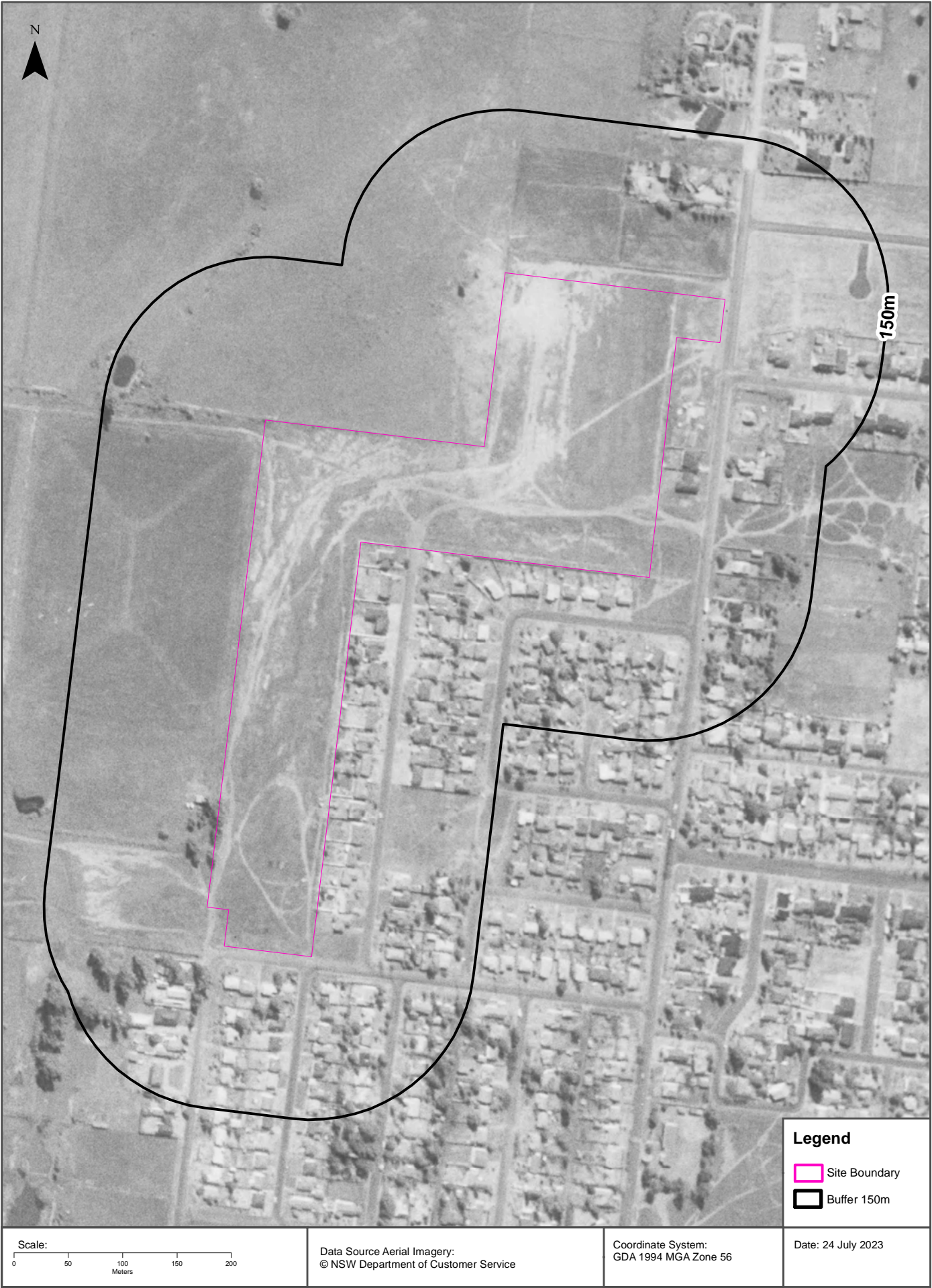






Aerial Imagery 1983

Farnell Street, Forbes, NSW 2300



Aerial Imagery 1974

Farnell Street, Forbes, NSW 2300



Aerial Imagery 1965

Farnell Street, Forbes, NSW 2300

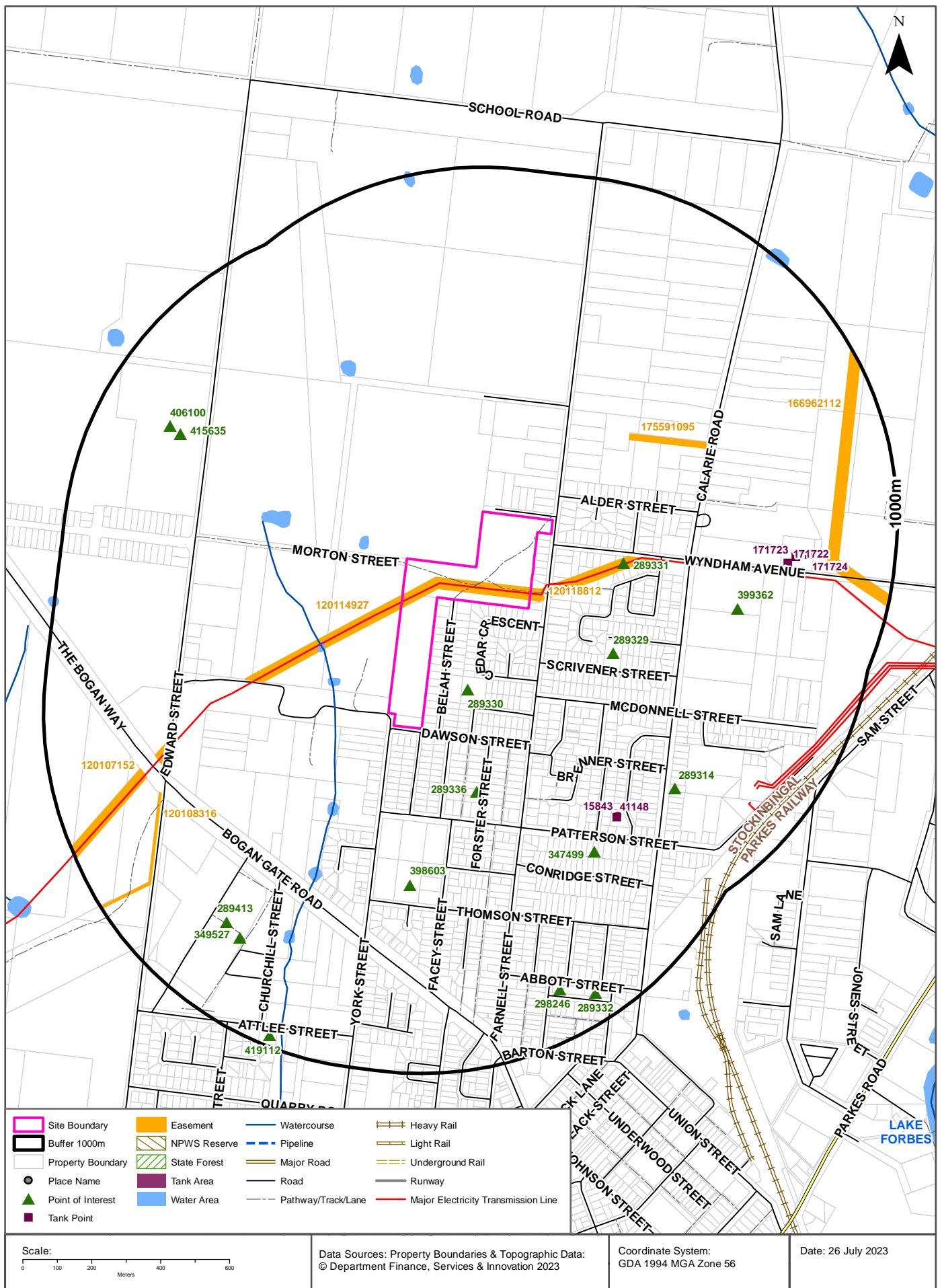






# Topographic Features

Farnell Street, Forbes, NSW 2300



# Topographic Features

Farnell Street, Forbes, NSW 2300

## Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
289330	Park	MURPHYS PARK	119m	South
289331	Park	MUFFETTS PARK	226m	East
289336	Place Of Worship	CHRISTIAN CHURCH	243m	South
289329	Park	GREEN PARK	277m	East
398603	Primary School	FORBES NORTH PUBLIC SCHOOL	454m	South
399362	High School	FORBES HIGH SCHOOL	582m	East
347499	Mountain Like	UNION HILL	615m	South East
289314	Place Of Worship	Place Of Worship	672m	South East
289413	Cemetery	FORBES CEMETERY	749m	South West
415635	Retirement Village	JEMALONG RESIDENTIAL VILLAGE	750m	North West
349527	Grave	BEN HALLS GRAVE	760m	South West
406100	Nursing Home	CATHOLIC HEALTHCARE JEMALONG RESIDENTIAL VILLAGE	786m	North West
298246	Child Care Centre	FORBES PRE-SCHOOL	856m	South
289332	Park	VI ADAMS PARK	918m	South
419112	Place Of Worship	BAPTIST CHURCH	969m	South West

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

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# Topographic Features

Farnell Street, Forbes, NSW 2300

## 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
15843	Water	Operational		01/05/2020	610m	South East

## 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
41148	Water	Feature on Previous LPI Tank Area Supply		27/03/2009	622m	South East
171722	Water	Operational		27/03/2009	691m	East
171723	Water	Operational		27/03/2009	713m	East
171724	Water	Operational		27/03/2009	751m	East

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

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## Major Easements

What Major Easements exist within the dataset buffer?

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

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120118812	Primary	Undefined		0m	On-site
120114927	Primary	Undefined		0m	West
175591095	Primary	Right of way	15m	324m	North East
120107152	Primary	Undefined		647m	South West
120108316	Primary	Undefined		700m	South West
166962112	Primary	Electricity	30 Wide	805m	East

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

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# Topographic Features

Farnell Street, Forbes, NSW 2300

## 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)

Farnell Street, Forbes, NSW 2300



## Hydrogeology & Groundwater

Farnell Street, Forbes, NSW 2300

### Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Fractured or fissured, extensive aquifers of low to moderate productivity	0m	On-site
Porous, extensive highly productive aquifers	782m	South

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)

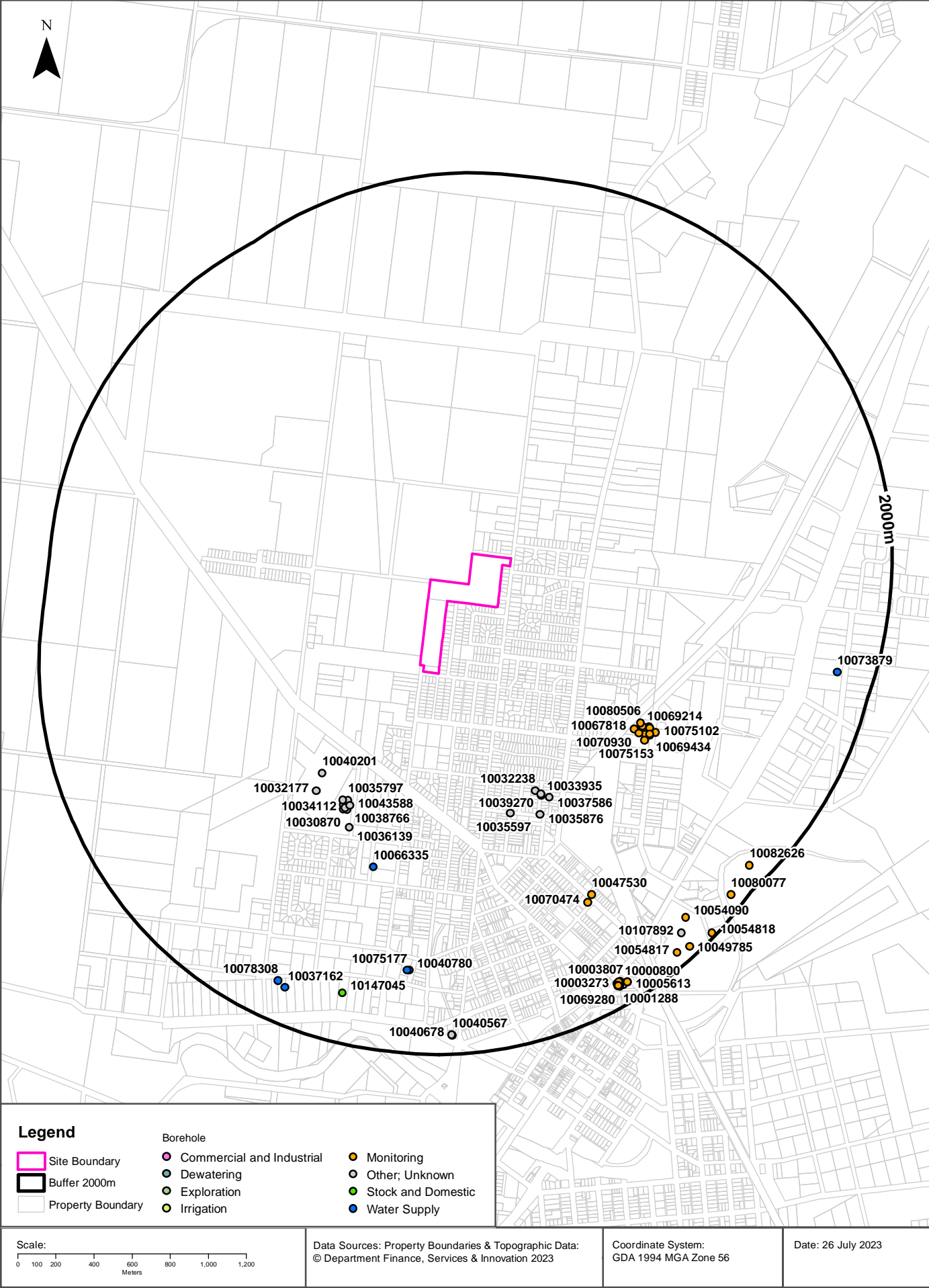
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### Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

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



# Hydrogeology & Groundwater

Farnell Street, Forbes, NSW 2300

## 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
10040201	GW965674	Unknown	Unknown			244.18	AHD				751m	South West
10035797	GW965678	Unknown	Unknown				AHD				782m	South West
10042770	GW965684	Unknown	Unknown				AHD				794m	South West
10032238	GW965681	Unknown	Unknown				AHD				799m	South
10043588	GW965676	Unknown	Unknown			241.62	AHD				801m	South West
10034112	GW965680	Unknown	Unknown				AHD				809m	South West
10041747	GW965683	Unknown	Unknown				AHD				814m	South West
10042415	GW965679	Unknown	Unknown				AHD				823m	South West
10035597	GW965689	Unknown	Unknown				AHD				825m	South
10038766	GW965677	Unknown	Unknown			241.62	AHD				825m	South West
10039270	GW965690	Unknown	Unknown				AHD				832m	South East
10030870	GW965682	Unknown	Unknown				AHD				834m	South West
10033935	GW965691	Unknown	Unknown				AHD				839m	South East
10032177	GW965675	Unknown	Unknown			244.43	AHD				841m	South West
10037586	GW965692	Unknown	Unknown			242.49	AHD				873m	South East
10036139	GW965687	Unknown	Unknown				AHD				905m	South West
10035876	GW965688	Unknown	Unknown				AHD				914m	South
10067818	GW702759	Monitoring	Functional	12/07/2005	5.20		AHD				962m	South East
10080506	GW702753	Monitoring	Functional	14/07/2005	5.20		AHD				967m	South East
10069835	GW702754	Monitoring	Functional	14/07/2005	5.20		AHD				987m	South East
10070930	GW702758	Monitoring	Functional	12/07/2005	5.20		AHD				995m	South East
10069214	GW702756	Monitoring	Functional	13/07/2005	5.20		AHD				997m	South East
10069747	GW702755	Monitoring	Functional	13/07/2005	5.20		AHD				1013m	South East
10066342	GW702757	Monitoring	Functional	13/07/2005	5.20		AHD				1020m	South East
10073197	GW700888	Monitoring	Proposed	24/04/1991	6.40		AHD			2.20	1021m	South East
10072479	GW702634	Monitoring	Functional	18/07/2005	5.20		AHD				1031m	South East
10075153	GW700890	Monitoring	Proposed	24/04/1991	6.50		AHD			3.00	1041m	South East
10079423	GW700889	Monitoring	Proposed	24/04/1991	6.50		AHD			3.10	1041m	South East
10069434	GW702635	Monitoring	Functional	18/07/2005	5.20		AHD				1048m	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
10066335	GW704777	Water Supply	Functioning	23/07/2014	74.00		AHD	8100	5.000	8.00	1058m	South
10075102	GW702636	Monitoring	Functional	14/07/2005	5.20		AHD				1060m	South East
10047530	GW704655	Monitoring	Functional	24/02/2010	7.00		AHD			4.00	1413m	South East
10070474	GW702956	Monitoring	Unknown	14/11/2006	5.00		AHD				1435m	South East
10040780	GW701813	Water Supply	Functioning	19/09/2003	54.00		AHD		0.750	24.00	1566m	South
10075177	GW703415	Water Supply	Functioning	04/04/2005	48.00		AHD		3.500	26.00	1567m	South
10147045	GW706209	Stock and Domestic	Abandoned	06/10/2016	38.50		AHD				1739m	South
10078308	GW702045	Water Supply	Abandoned	17/10/2003	9.50		AHD	7000		6.50	1792m	South West
10073879	GW702740	Water Supply	Removed	26/10/2005	46.00		AHD	Salty			1807m	East
10037162	GW702880	Water Supply	Abandoned	24/07/2002	53.00		AHD				1811m	South West
10054090	GW092235	Monitoring	Proposed	12/11/1996	3.14	236.80	AHD				1825m	South East
10107892	GW021073	Other	Unknown	01/09/1964	52.70		AHD				1866m	South East
10066117	GW704479	Monitoring	Functional	19/10/2011	4.20		AHD	2028	0.100	1.37	1877m	South East
10003807	GW704868	Monitoring	Functional	18/03/2011	4.00		AHD			2.06	1879m	South East
10003273	GW704871	Monitoring	Functional	18/03/2011	4.00		AHD			1.27	1880m	South
10000800	GW704866	Monitoring	Functional	18/03/2011	4.00		AHD			1.65	1885m	South East
10070360	GW704480	Monitoring	Functional	19/10/2011	4.20		AHD	2010	0.100	1.68	1888m	South East
10079247	GW704481	Monitoring	Functional	19/10/2011	4.50		AHD	2010	0.100	1.11	1893m	South East
10001288	GW704869	Monitoring	Functional	18/03/2011	4.00		AHD			1.63	1894m	South East
10069280	GW704482	Monitoring	Functional	19/10/2011	4.20		AHD	2010	0.100	1.54	1894m	South
10082626	GW092245	Monitoring	Proposed	13/11/1996	6.86	236.70	AHD				1894m	South East
10040678	GW965685	Unknown	Unknown				AHD				1898m	South
10005613	GW704870	Monitoring	Functional	18/03/2011	4.00		AHD			1.64	1899m	South East
10149910	GW704872	Monitoring	Functional	18/03/2011	4.00		AHD			3.77	1899m	South East
10040567	GW965686	Unknown	Unknown				AHD				1900m	South
10069519	GW704483	Monitoring	Functional	20/01/2009	5.00		AHD	2010	0.100	3.00	1901m	South East
10002661	GW704873	Unknown	Functional	18/03/2011	4.00		AHD			3.00	1903m	South East
10080077	GW092246	Monitoring	Proposed	13/11/1996	5.00	236.06	AHD				1926m	South East
10054817	GW092237	Monitoring	Proposed	12/11/1996	4.20	236.58	AHD				1930m	South East
10049785	GW092236	Monitoring	Proposed	12/11/1996	4.06	236.63	AHD				1949m	South East
10054818	GW092240	Monitoring	Proposed	12/11/1996	2.30	236.60	AHD				1980m	South East

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

Farnell Street, Forbes, NSW 2300

## Driller's Logs

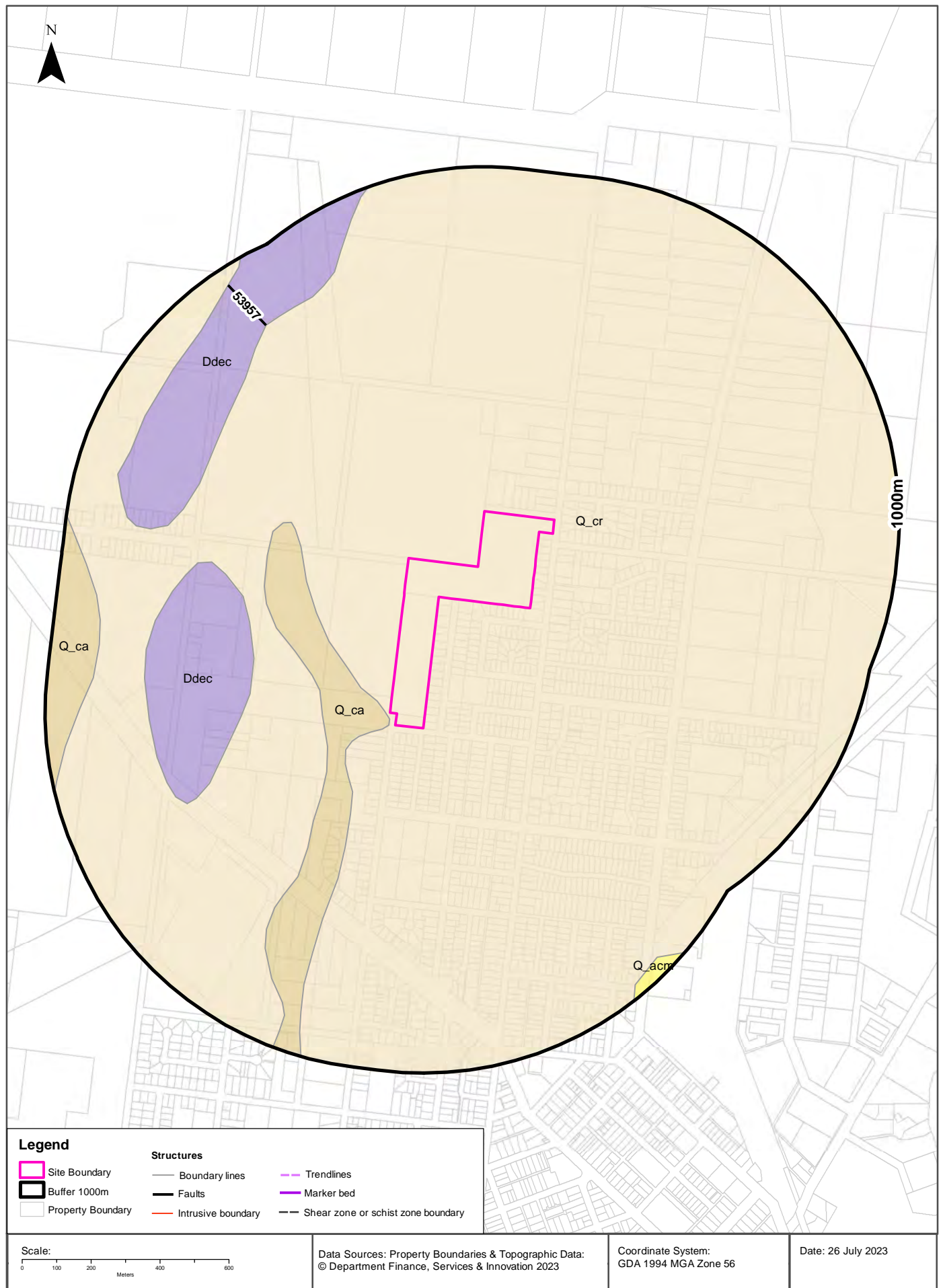
Drill log data relevant to the boreholes within the dataset buffer:

NGIS Bore ID	Drillers Log	Distance	Direction
10067818	0.00m-0.30m Fill, Silty Clay, dark brown, stiff, contains gravel 0.30m-1.00m Silty Clay, orange/brown, stiff 1.00m-2.00m Silty Clay, orange, with rock 2.00m-3.00m Silty Clay, orange/brown, soft 3.00m-5.20m Silty Clay, light brown/tan	962m	South East
10080506	0.00m-0.20m Fill, Silty Clay, brown 0.20m-2.00m Silty Clay, orange brown 2.00m-3.00m Silty Clay, orange brown, stiff to very stiff 3.00m-4.00m Silty Clay, red brown, firm 4.00m-5.20m Silty Clay, light grey & light yellow, soft	967m	South East
10069835	0.00m-0.30m Fill, silty clay, black, stiff, contains gravel 0.30m-0.90m Silty Clay, brown, stiff 0.90m-2.00m Silty Clay, yellow/brown, contains rock 2.00m-3.00m Silty Clay, light brown/yellow, firm, minor gravel 3.00m-5.20m Silty Clay, light brown/tan, soft	987m	South East
10070930	0.00m-0.40m Fill, Silty Clay, grey/brown, stiff, contains gravel 0.40m-3.00m Silty Clay, orange/brown, stiff 3.00m-5.20m Silty Clay, light brown, soft-firm	995m	South East
10069214	0.00m-0.30m Fill, clay, light brown, stiff, contains gravel 0.30m-2.00m Clay, orange brown, stiff 2.00m-3.00m Silty Clay, red brown to light brown, very stiff 3.00m-4.00m Silty Clay, light brown/tan, firm, minor gravels 4.00m-5.00m Silty Clay, firm to soft, trace gravels 5.00m-5.20m Silty Clay, no gravels	997m	South East
10069747	0.00m-0.30m Fill, clay, light brown, contains gravel 0.30m-2.00m Clay, orange brown 2.00m-3.00m Clay, red brown, stiff to very stiff 3.00m-5.00m Silty Clay, light grey, firm 5.00m-5.20m Silty Clay, light grey/light yellow, firm to soft	1013m	South East
10066342	0.00m-0.50m Silty Clay, brown, stiff 0.50m-2.00m Silty Clay, orange/brown 2.00m-3.00m Silty Clay, light orange/brown, firm 3.00m-4.00m Silty Clay, light brown/tan, soft 4.00m-5.20m Silty Clay, light brown/tan	1020m	South East
10073197	0.00m-1.00m Clay, chocolate brown and red brown, plastic 1.00m-2.00m Clay, red brown plastic, iron rich, minor pisolites 2.00m-5.00m Clay, pink red plastic, iron rich, minor pisolites 5.00m-6.40m Clay, yellow brown and pink brown mottled, semi-plastic	1021m	South East
10072479	0.00m-0.50m Silty Clay, brown 0.50m-0.80m Silty Clay, brown, moist 0.80m-2.00m Silty Clay, orange brown 2.00m-3.00m Silty Clay, brown to dark brown, soft 3.00m-4.00m Silty Clay, mottled with orange brown 4.00m-5.20m Silty Clay, soft	1031m	South East
10075153	0.00m-0.02m Bitumen 0.02m-2.00m Clay, red brown plastic clay, iron rich and pisolitic 2.00m-2.50m Clay, orange brown plastic clay with gravel matrix up to 1cm diameter, 20% gravel 2.50m-5.00m Clay, pale brown and cream mottled plastic clay, minor gravel matrix, becoming moist @ 3m 5.00m-6.50m Clay, pale cream mottled plastic clay, very minor gravel matrix decreasing with depth	1041m	South East
10079423	0.00m-0.02m Bitumen 0.02m-2.00m Clay, chocolate brown, organic bitumen odour 2.00m-3.00m Clay, chocolate brown, semi plastic, some organics, minor pisolites, bitumen odour 3.00m-4.00m Clay, brown, semi plastic. Bitumen odour, Moist @ 3.1m 4.00m-6.50m Clay, brown with reddish tinge, minor yellow mottling, semiplastic. Bitumen odour. Minor pisolitic gravel	1041m	South East
10069434	0.00m-0.80m Silty Clay, brown 0.80m-2.00m Silty Clay, orange brown 2.00m-4.00m Silty Clay, brown/dark brown, soft 4.00m-5.00m Silty Clay, mottled with orange brown, firm 5.00m-5.20m Silty Clay, no plasticity	1048m	South East

NGIS Bore ID	Drillers Log	Distance	Direction
10066335	0.00m-1.00m topsoil, brown 1.00m-3.00m clay, hard, light brown 3.00m-4.00m clay, tight, dark brown 4.00m-5.00m shale, rock, brown 5.00m-11.00m shale, tight, brown 11.00m-13.00m shale, tight, red 13.00m-18.00m shale, tight, orange 18.00m-24.00m shale, firm, red orange 24.00m-48.00m shale, soft, weathered, orange 48.00m-50.00m shale, rocky, hard 50.00m-60.00m shale, rocky, quartz bands, green 60.00m-74.00m shale, hard, green, blue, brown	1058m	South
10075102	0.00m-0.50m Silty Clay, brown 0.50m-1.00m Silty Clay, moist 1.00m-2.00m Silty Clay, orange brown 2.00m-3.00m Silty Clay, brown, firm 3.00m-4.00m Silty Clay, mottled orange brown & light grey, stiff 4.00m-5.00m Silty Clay, firm 5.00m-5.20m Silty Clay, soft	1060m	South East
10047530	0.00m-1.00m fill, crushed rock 1.00m-2.00m silty clay 2.00m-7.00m siltstone	1413m	South East
10070474	0.00m-0.40m dark grey brown loamy sand , some organic material 0.40m-4.80m gravelly silty clay, orange brown gravel layers throughout, particularly 3 to 3.5 m. 4.80m-5.00m bedrock	1435m	South East
10040780	0.00m-0.60m Topsoil 0.60m-42.00m Red Sandy Clay 42.00m-54.00m Gravel	1566m	South
10075177	0.00m-0.10m topsoil 0.10m-40.00m clay 40.00m-48.00m sandy gravel	1567m	South
10073879	0.00m-35.00m Shale, yellow 35.00m-40.00m Shale, black, water cut 40.00m-46.00m Shale, black	1807m	East
10037162	0.00m-8.80m Clay 8.80m-12.30m Sand & Clay, creamish 12.30m-19.40m Clay, reddish mottle 19.40m-53.00m Clay, creamish 53.00m-53.00m Bedrock	1811m	South West
10054090	0.00m-1.50m Clay, dry powder, medium, Apedal 1.50m-2.00m Clay, damp powder, medium 2.00m-4.00m Loam Sand, saturated, light	1825m	South East
10107892	0.00m-0.61m Clay Yellow Slate 0.61m-1.22m Soil Black 1.22m-8.53m Clay 8.53m-10.67m Clay Grey Soft Silty 10.67m-11.89m Sand Coarse Water Supply Gravel Very Coarse Stones 11.89m-12.80m Sand Coarse Water Supply Gravel Very Coarse Water Supply 12.80m-13.72m Sand Very Coarse Water Supply 13.72m-14.63m Silt Grey Sandy 14.63m-16.76m Sand Coarse Water Supply Gravel Fine 16.76m-17.68m Clay Red Grey 17.68m-19.51m Clay Grey 19.51m-23.16m Shale Decomposed Slate Water Supply Quartzite 23.16m-26.21m Shale Decomposed Slate Quartz Waterworn Stones 26.21m-32.61m Shale Decomposed Slate Quartzite Waterworn Stones 32.61m-37.19m Shale Decomposed Slate Stones Waterworn Soft 37.19m-46.33m Shale Decomposed Slate Stones Waterworn 46.33m-48.77m Shale Yellow Decomposed Hard Bands 48.77m-50.90m Shale Decomposed Slate 50.90m-52.73m Slate Yellow	1866m	South East
10066117	0.00m-2.20m fill, silty clay, gravelly, dark yellowish brown 7.5yr 4/4 2.20m-2.50m fill, diorite 60-125mm gabion PID 0.0 ppm IBE 2.50m-4.00m shale, extremely weathered, dark yellowish brown 7.5R 4/4 with dark greyish brown 10yr 4/2 mottles	1877m	South East
10003807	0.00m-1.20m Fill; medium clay, gravelly dark brown, moist 1.20m-1.60m Clay; medium, gravelly, dark brown 1.60m-2.00m Clay; silty, brown, moist 2.00m-2.70m Clay; medium, yellow brown, with light grey mottles 2.70m-3.30m Clay; silty, with weathered shale, brownish yellow 3.30m-4.00m Shale; clayey (extremely weathered shale), yellowish brown	1879m	South East
10003273	0.00m-0.20m Gravel; 2-5mm basalt, blue-grey 0.20m-0.50m Gravel; 10mm shale roadbase gravel 0.50m-0.80m Fill; fine sandy loam, dark brown 0.80m-1.70m Clay; silty, dark brown, plastic, cohesive 1.70m-2.70m Clay; weathered shale, brown, plastic, cohesive, some quartz phenocrysts 10% 2.70m-4.00m Clay; heavy, weathered shale, reddish yellow & white, <5% inclusions	1880m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10000800	0.00m-2.00m Fill; Silty Clay, gravelly, dark brown, brick & concrete inclusions 20% 2.00m-2.70m Clay; silty, dark brown 2.70m-3.30m Fill; Diorite 60-125mm gabion 3.30m-4.00m Clay; silty, grey brown, plastic with grey mottles	1885m	South East
10070360	0.00m-0.70m loam, silty, gravelly, dark brown 10yr 5/3 PID 0.0 ppm IBE 0.70m-2.50m clay, silty, gravelly, dark greyish brown 10 yr 4/2 PID 42.8 ppm IBI 2.50m-3.30m clay, silty, gravelly, yellowish brown 10 yr 5/6 PID 51.2 ppm IBE 3.30m-4.20m clay, medium, brown 10 yr 5/3 PID 37.5 to 0 ppm	1888m	South East
10079247	0.00m-1.00m loam, silty, sandy dark greyish brown, 10yr 4/2 PID 0.0 ppm IBE 1.00m-2.00m clay, silty, brown 10 yr 5/3 2.00m-2.80m clay, silty, dark greyish brown 10 yr 4/2 2.80m-4.50m clay, medium, brown 10yr 5/3, moist, plastic	1893m	South East
10001288	0.00m-1.30m Fill; silty clay, gravelly, dark brown 1.30m-1.60m Clay; silty, dark brown 1.60m-2.60m Clay; silty, greyish brown, plastic 2.60m-3.50m Clay; silty, greyish brown 3.50m-3.60m Clay; silty, yellowish brown, highly plastic with dark grey, white dark yellowish brown mottles 3.60m-4.00m Clay; silty, light grey with few yellowish brown mottles	1894m	South East
10069280	0.00m-0.80m loam, silty, dark reddish brown 5yr 3/3 0.80m-2.00m clay, silty, dark greyish brown 10yr 4/2 2.00m-2.50m clay, medium greyish brown 10yr 5/2 PID 1095 ppm IBE 2.50m-4.20m clay, medium brown 10yr 5/3 with orange and grey mottles PID 105 ppm IBE at 3.0 mbgsI	1894m	South
10082626	0.00m-0.20m Loam, dry, sandy 0.20m-1.00m Clay, dry, very strong, medium 1.00m-2.00m Clay, slightly moist, strong, medium 2.00m-3.00m Sandy Clay, moist, weak 3.00m-4.00m Clay, wet, weak, light 4.00m-6.86m Super saturated	1894m	South East
10005613	0.00m-0.30m Gravel; 10mm basalt, blue-grey 0.30m-0.60m Loam, Silty; dark brown 0.60m-1.30m Silty Clay; dark reddish grey, some grey mottles 1.30m-1.60m Clay; shaley, brown, moist, extremely weathered shale, inclusions small, <10mm 1.60m-3.50m Shale; leached, very pale brown, with fine angular inclusions 10%, wet 3.50m-4.00m Shale; weathered, strong brown, clayey with inclusions	1899m	South East
10149910	0.00m-0.20m Fill; road base shale & clay 0.20m-0.70m Loam; sandy, dark brown 0.70m-2.50m Clay; silty, dark brown 2.50m-4.00m Clay; silty, brown	1899m	South East
10069519	0.00m-0.20m sand, coarse, loamy, reddish brown 5yr 4/4 0.20m-0.50m clay, sandy, brown and shale, reddish yellow 0.50m-0.90m loam, silty, clayey, dark grey 7.5yr 4/2 light grey mottles, moist 0.90m-1.20m clay, medium, silty, brown 7.5yr 4/4 1.20m-1.80m clay, light medium, greyish brown 10yr 5/2 1.80m-2.50m clay, silty, greyish brown, moist 2.50m-3.00m clay, medium, sandy, reddish yellow 7.5 6/8 mottled light brownish grey 10yr 6/2 3.00m-3.50m clay, medium light brownish grey, moist, 10yr 6/2 3.50m-3.90m clay, medium, light brownish grey, moist 3.90m-5.00m clay, medium light brownish grey 10tyr 6/2, wet	1901m	South East
10002661	0.00m-0.20m Fill; road base shale & clay 0.20m-0.60m Clay; silty, brown 0.60m-3.00m Clay; silty, dark greyish brown, moist, firm 3.00m-3.50m Clay; silty, dark brown, moist, plastic 3.50m-4.00m Clay; silty, dark yellowish brown	1903m	South East
10080077	0.00m-0.10m Loamy Clay, moist, weak 0.10m-2.00m Clay, moist, strong, medium 2.00m-3.00m Clay, wet, strong, medium 3.00m-4.00m Clay, wet, weak, medium 4.00m-5.00m Clay, saturated, weak, medium	1926m	South East
10054817	0.00m-0.50m Clay, dry, strong 0.50m-2.00m Clay, moist, strong 2.00m-3.00m Clay, moist, moderate, medium 3.00m-4.20m Sandy Clay, very moist, weak, light	1930m	South East
10049785	0.00m-0.50m Clay, dry, light, weak 0.50m-1.00m Clay, moist, moderate, light 1.00m-2.00m Clay, moist, strong, medium 2.00m-3.00m Sandy Clay, moist, weak 3.00m-4.06m sandy loamy clay, wet, weak	1949m	South East
10054818	0.00m-0.20m LOam, dry 0.20m-2.00m Clay, dry-moist, moderate, medium 2.00m-3.30m Sandy Clay, moist, weak, light	1980m	South East

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

Farnell Street, Forbes, NSW 2300

## Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Q_cr	Colluvial and residual deposits	Undifferentiated colluvial and residual deposits.	/Colluvium//Colluvial and residual deposits//	Quaternary (base) to Pleistocene (top)	Clastic sediment	0m
Q_ca	Mixed colluvial, alluvial and aeolian deposits	Mixed colluvial, alluvial and aeolian deposits.	/Colluvium//Mixed colluvial, alluvial and aeolian deposits//	Quaternary (base) to Now (top)	Clastic sediment	11m
Ddec	Calarie Sandstone	Sandstone.	/Derriwong Group//Calarie Sandstone//	Gorstian (base) to Ludfordian (top)	Sandstone	409m
Q_acm	Alluvial channel deposits - meander-plain facies	Unconsolidated grey humic, clayey very fine-grained sand, typically overlying light brown clayey silt.	/Alluvium//Alluvial channel deposits//Alluvial channel deposits - meander-plain facies/	Quaternary (base) to Now (top)	Clastic sediment	949m

## 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
53957	Faulted boundary	Fault, position accurate	Bogan Gate 1:100,000 Geological Sheet	792m

Geological Data Source: Statewide Seamless Geology v2.1, Department of Regional NSW

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# Naturally Occurring Asbestos Potential

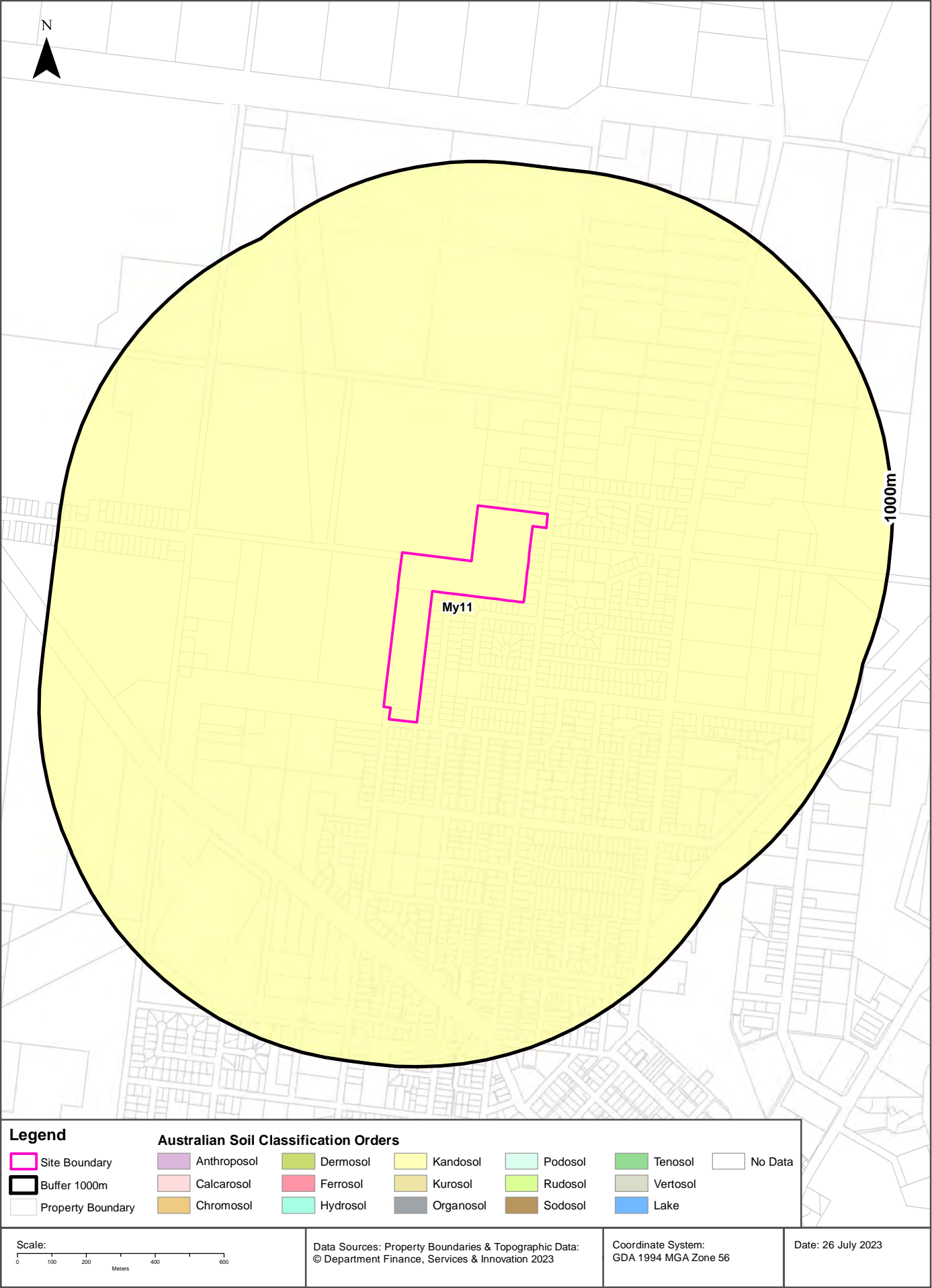
Farnell Street, Forbes, NSW 2300

## 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

Farnell Street, Forbes, NSW 2300

### 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
My11	Kandosol	Rolling to nearly flat country with some widely spaced ridges and hills: chief soils are neutral and alkaline red earths (Gn2.12 and Gn2.13), and in the more easterly occurrences of the unit some (Gn2.15 and Gn2.16) soils. Associated are: variable areas of hard alkaline red soils (Dr2.33), hard alkaline brown soils (Db2.43), and (Dy) soils; and some stony or shaly ridges and hills of units Qc4 and/or Qc3 or LK4. Data are limited.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO

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# Soil Landscapes of Central and Eastern NSW

Farnell Street, Forbes, NSW 2300



## Soils

Farnell Street, Forbes, NSW 2300

### Soil Landscapes of Central and Eastern NSW

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

Soil Code	Name	Distance	Direction
<a href="#">SI5507bh</a>	Bald Hill	0m	On-site
<a href="#">SI5507pa</a>	Parkes	511m	North East

Soil Landscapes of Central and Eastern NSW: NSW Department of Planning, Industry and Environment  
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## Acid Sulfate Soils

Farnell Street, Forbes, NSW 2300

### 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

Farnell Street, Forbes, NSW 2300

### Atlas of Australian Acid Sulfate Soils

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

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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## Dryland Salinity

Farnell Street, Forbes, NSW 2300

### Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

**No**

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

**No**

What Dryland Salinity assessments are given?

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

Dryland Salinity Data Source : National Land and Water Resources Audit

The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information.

Any persons using this information do so at their own risk.

In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

## Mining

Farnell Street, Forbes, NSW 2300

### Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

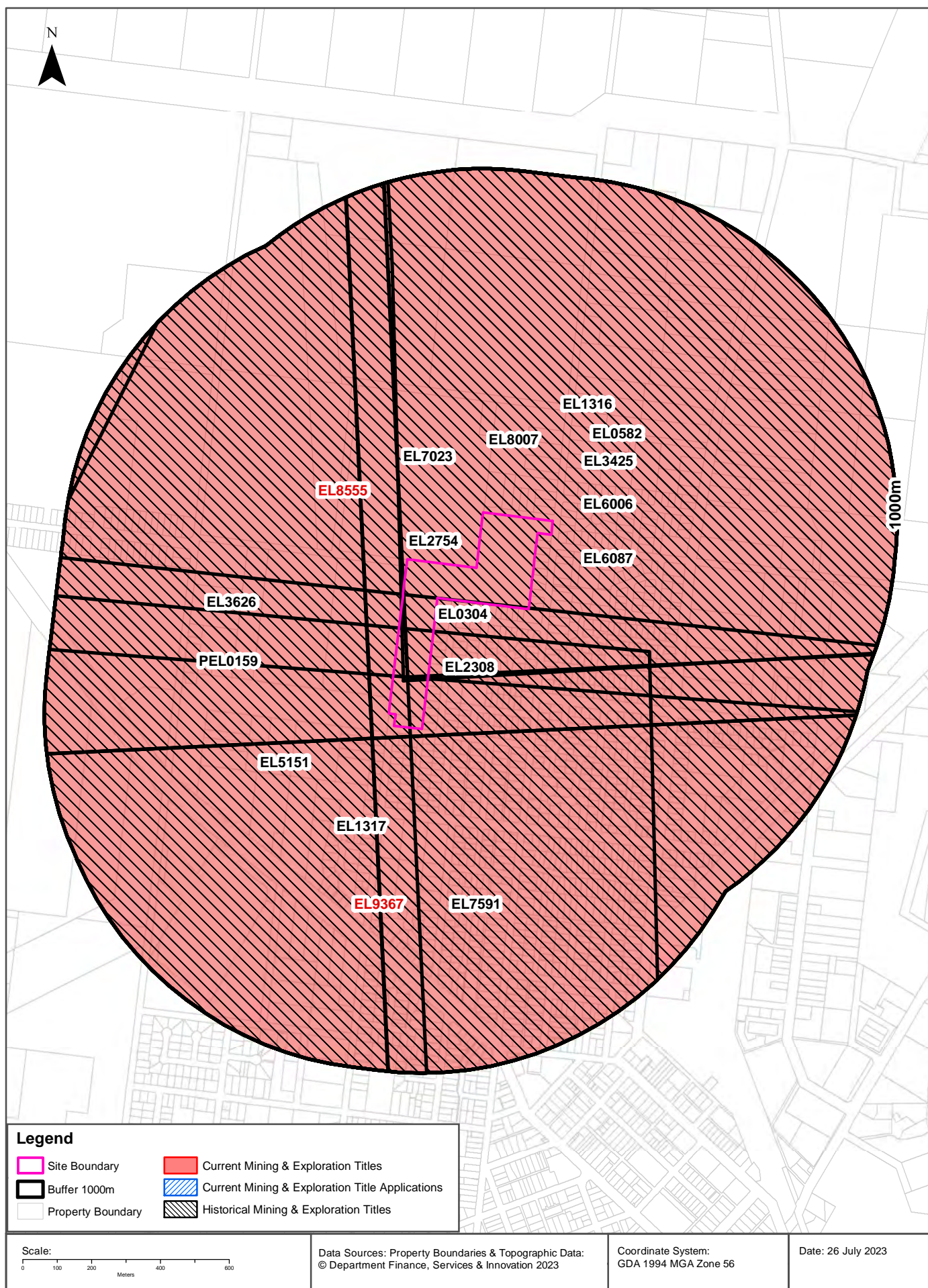
District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

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

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# Mining & Exploration Titles

Farnell Street, Forbes, NSW 2300



## Mining

Farnell Street, Forbes, NSW 2300

### 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
EL8555	GODOLPHIN TENEMENTS PTY LTD	05/05/2017	05/05/2023	20230505	EXPLORING	MINERALS	Group 1	0m	On-site
EL9367	STRATEGIC ENERGY RESOURCES LIMITED	09/03/2022	09/03/2025	20220309	EXPLORING	MINERALS	Group 1	20m	South

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

Farnell Street, Forbes, NSW 2300

### Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
EL5151	PLATO MINING PTY LTD	19961114	19981113	MINERALS		0m	On-site
EL6087	GOLDEN CROSS OPERATIONS PTY. LTD.	20030603	20090602	MINERALS	Au Cu	0m	On-site
EL1316	MINERAL MANAGEMENT & SECURITIES PTY LIMITED	19800201	19840201	MINERALS	Au	0m	On-site
EL1317	MINERAL MANAGEMENT & SECURITIES PTY LIMITED	19800201	19820701	MINERALS	Au	0m	On-site
EL3626	NEWCREST MINING LIMITED	19900701	19920101	MINERALS	Au	0m	On-site
EL8007	KIMBERLEY DIAMONDS LTD	20121106	20141106	MINERALS	Au	0m	On-site
EL0304	NICKEL MINES LIMITED	19700801	19710801	MINERALS	Cu Pb Zn Ag Au	0m	On-site
EL6006	GOLDEN CROSS OPERATIONS PTY. LTD.	20021003	20030603	MINERALS	Au	0m	On-site
EL7023	TRI ORIGIN MINING PTY LIMITED	20080120	20170120	MINERALS	Au Cu	0m	On-site
EL2754	EPOCH MINING NL	19861201	19900301	MINERALS	Au	0m	On-site
EL0582	GLENDALE EXPLORATION NL	19730101	19740101	MINERALS	Au Cu	0m	On-site
EL3425	DELTA GOLD EXPLORATION PTY LTD, TRI ORIGIN AUSTRALIA NL	19900201	19940225	MINERALS	Au	0m	On-site
EL2308	INTERNATIONAL MINING CORPORATION NL	19841101	19860301	MINERALS	Au	0m	On-site
EL7591	CENTIUS GOLD LIMITED	20100804	20140804	MINERALS	Au Cu	20m	South
PEL0159	PLANET EXPLORATION COMPANY PTY LTD			PETROLEUM	Petroleum	51m	West

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

# State Environmental Planning Policy

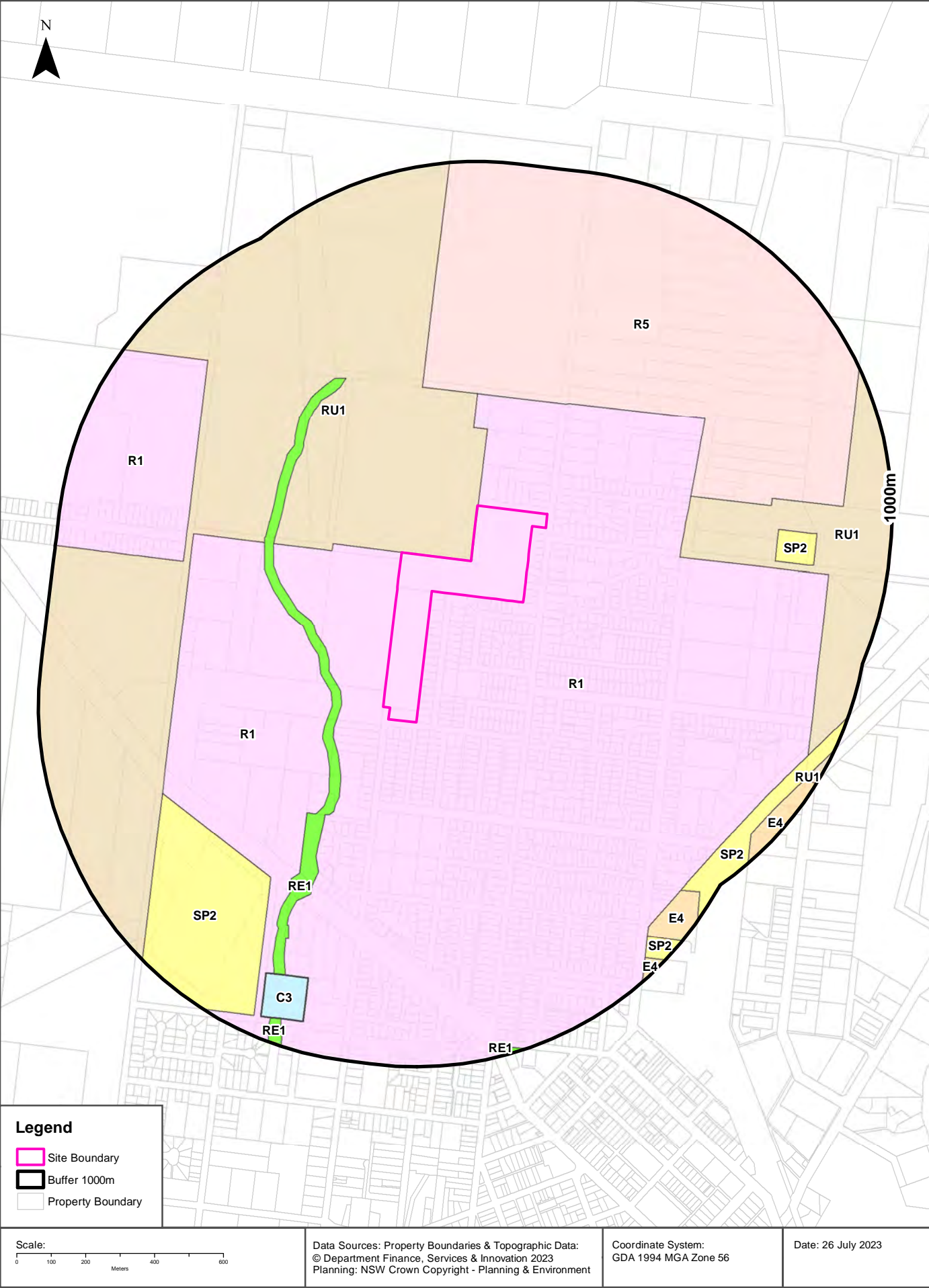
Farnell Street, Forbes, NSW 2300

## 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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# Environmental Planning Instrument

Farnell Street, Forbes, NSW 2300

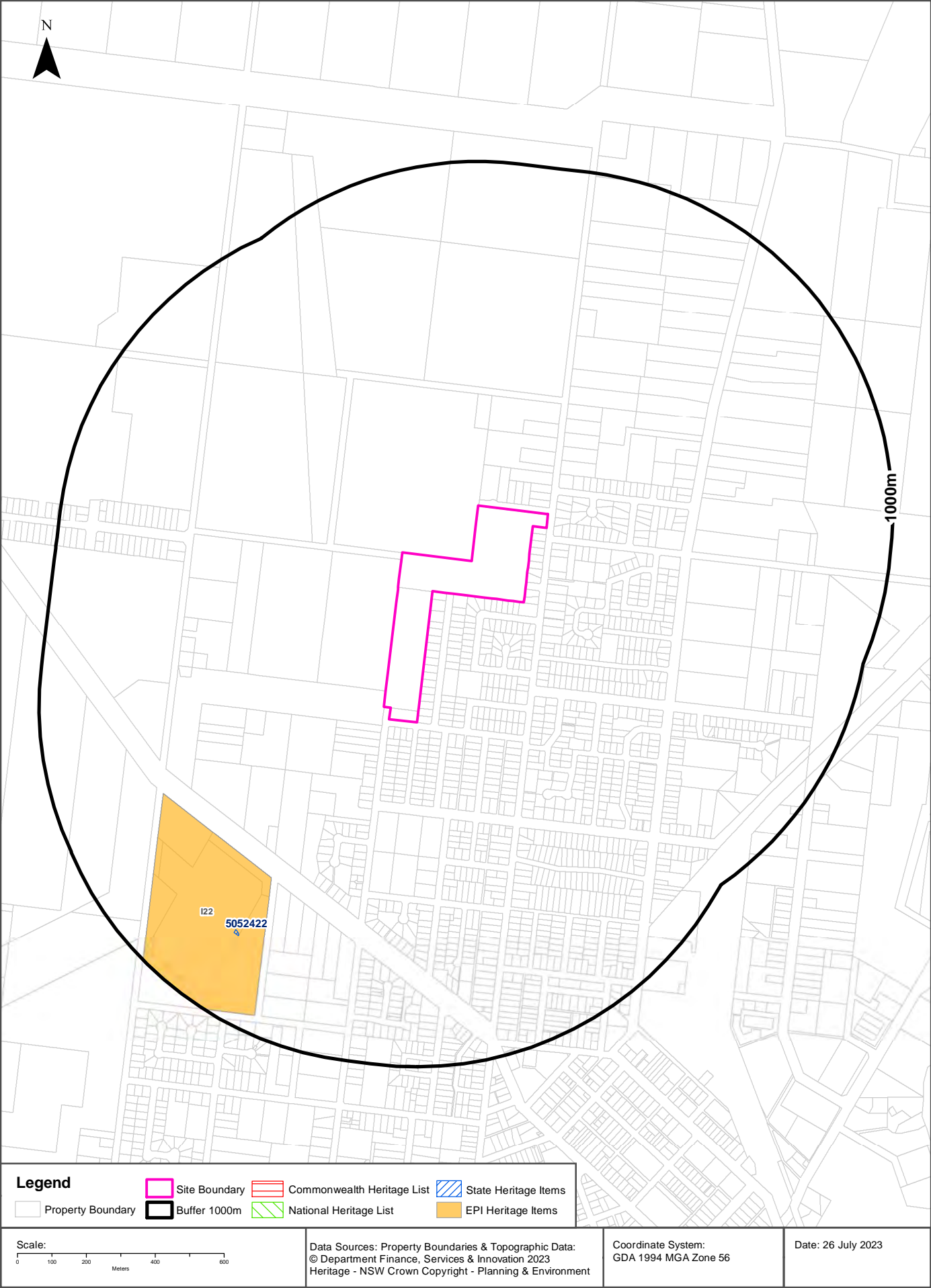
## Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R1	General Residential		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	0m	On-site
RU1	Primary Production		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	0m	North West
RE1	Public Recreation		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	121m	South West
R1	General Residential		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	148m	South West
R5	Large Lot Residential		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	324m	North East
SP2	Infrastructure	Cemetery	Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	574m	South West
R1	General Residential		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	626m	North West
SP2	Infrastructure	Water Reservoir	Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	670m	East
C3	Environmental Management		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	787m	South West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
E4	General Industrial		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	897m	South East
SP2	Infrastructure	Rail Infrastructure	Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	899m	South East
RE1	Public Recreation		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	924m	South
E4	General Industrial		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	939m	South East
E4	General Industrial		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	951m	South East
RU1	Primary Production		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	964m	South East
RE1	Public Recreation		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	973m	South

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## Heritage

Farnell Street, Forbes, NSW 2300

### 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
5052422	The Ben Hall Sites - Grave of Ben Hall	Various , Forbes	FORBES	08/10/2010	01827	2281	757m	South West

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
I22	Forbes General Cemetery (including Shaw / Bodell Kurrajong)	Item - General	Local	Forbes Local Environmental Plan 2013	09/08/2013	09/08/2013	09/08/2013	574m	South West

Heritage Data Source: NSW Crown Copyright - Planning & Environment  
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## Natural Hazards

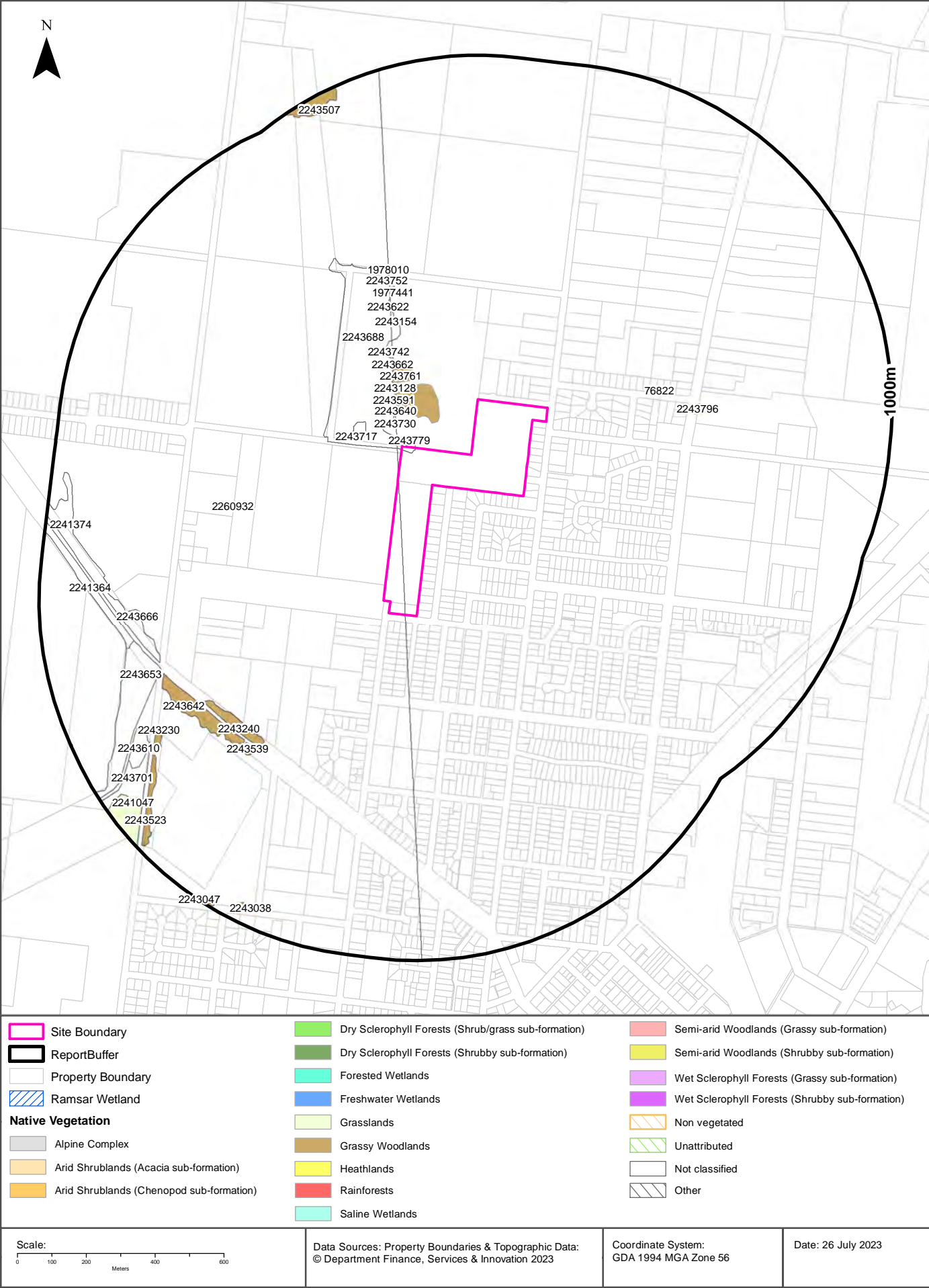
Farnell Street, Forbes, NSW 2300

### 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

Farnell Street, Forbes, NSW 2300

## Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
76822	Not classified	(Not classified) Not classified	Not classified	0m	On-site
2243779	Not classified	(Not classified) Not classified	Not classified	0m	On-site
2260932	Not classified	(Not classified) Not classified	Not classified	0m	On-site
2243688	Not classified	(Not classified) Not classified	Not classified	14m	North West
2243606	Not classified	(Not classified) Not classified	Not classified	16m	North West
2243730	Not classified	(Not classified) Not classified	Not classified	24m	North West
2243746	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	76m	North
2243640	Not classified	(Not classified) Not classified	Not classified	105m	North West
2243717	Not classified	(Not classified) Not classified	Not classified	111m	North West
2243591	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	128m	North West
2243128	Not classified	(Not classified) Not classified	Not classified	142m	North West
2243761	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	182m	North West
2243598	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	185m	North West
2243662	Not classified	(Not classified) Not classified	Not classified	222m	North West
2243742	Not classified	(Not classified) Not classified	Not classified	253m	North West
2243154	Not classified	(Not classified) Not classified	Not classified	295m	North
2243622	Not classified	(Not classified) Not classified	Not classified	368m	North
1977441	Not classified	(Not classified) Not classified	Not classified	391m	North
2243796	Grasslands	(Grasslands) Plains Grass grassland on alluvial mainly clay soils in the Riverina Bioregion and NSW South Western Slopes Bioregion	Riverine Plain Grasslands	420m	East
2243752	Not classified	(Not classified) Not classified	Not classified	422m	North
1978010	Not classified	(Not classified) Not classified	Not classified	454m	North
2243240	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	519m	South West
2243539	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	556m	South West
2243642	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	559m	South West
2243666	Not classified	(Not classified) Not classified	Not classified	669m	South West
2243653	Not classified	(Not classified) Not classified	Not classified	677m	South West

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
2241364	Not classified	(Not classified) Not classified	Not classified	734m	West
2243230	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	746m	South West
2241374	Not classified	(Not classified) Not classified	Not classified	750m	West
2243610	Not classified	(Not classified) Not classified	Not classified	781m	South West
2243523	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	796m	South West
2243701	Not classified	(Not classified) Not classified	Not classified	798m	South West
2241047	Grasslands	(Grasslands) Plains Grass grassland on alluvial mainly clay soils in the Riverina Bioregion and NSW South Western Slopes Bioregion	Riverine Plain Grasslands	903m	South West
2243038	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	941m	South West
2243507	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	949m	North
2243047	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	979m	South West

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

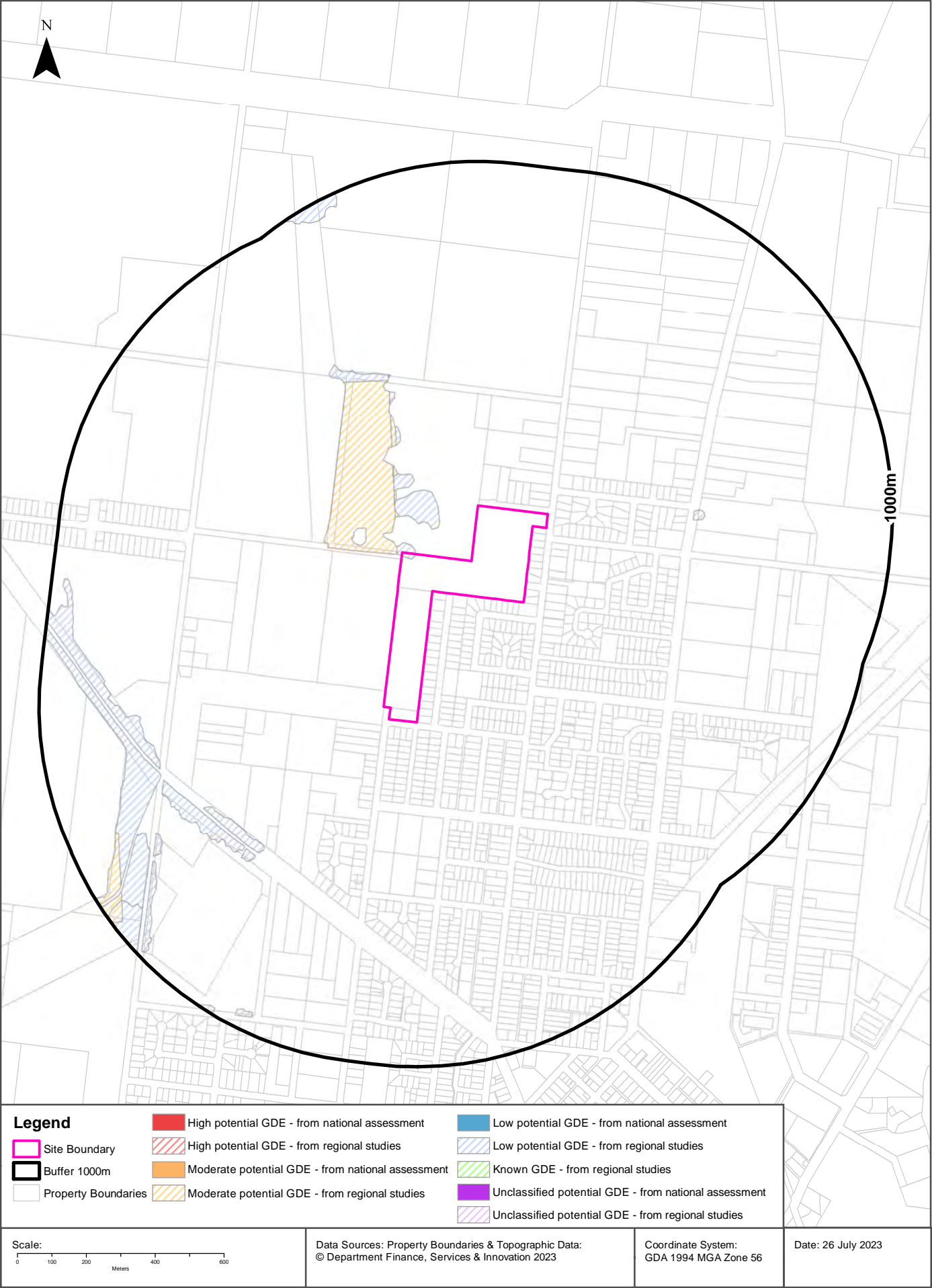
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## Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

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

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



# Ecological Constraints

Farnell Street, Forbes, NSW 2300

## Groundwater Dependent Ecosystems Atlas

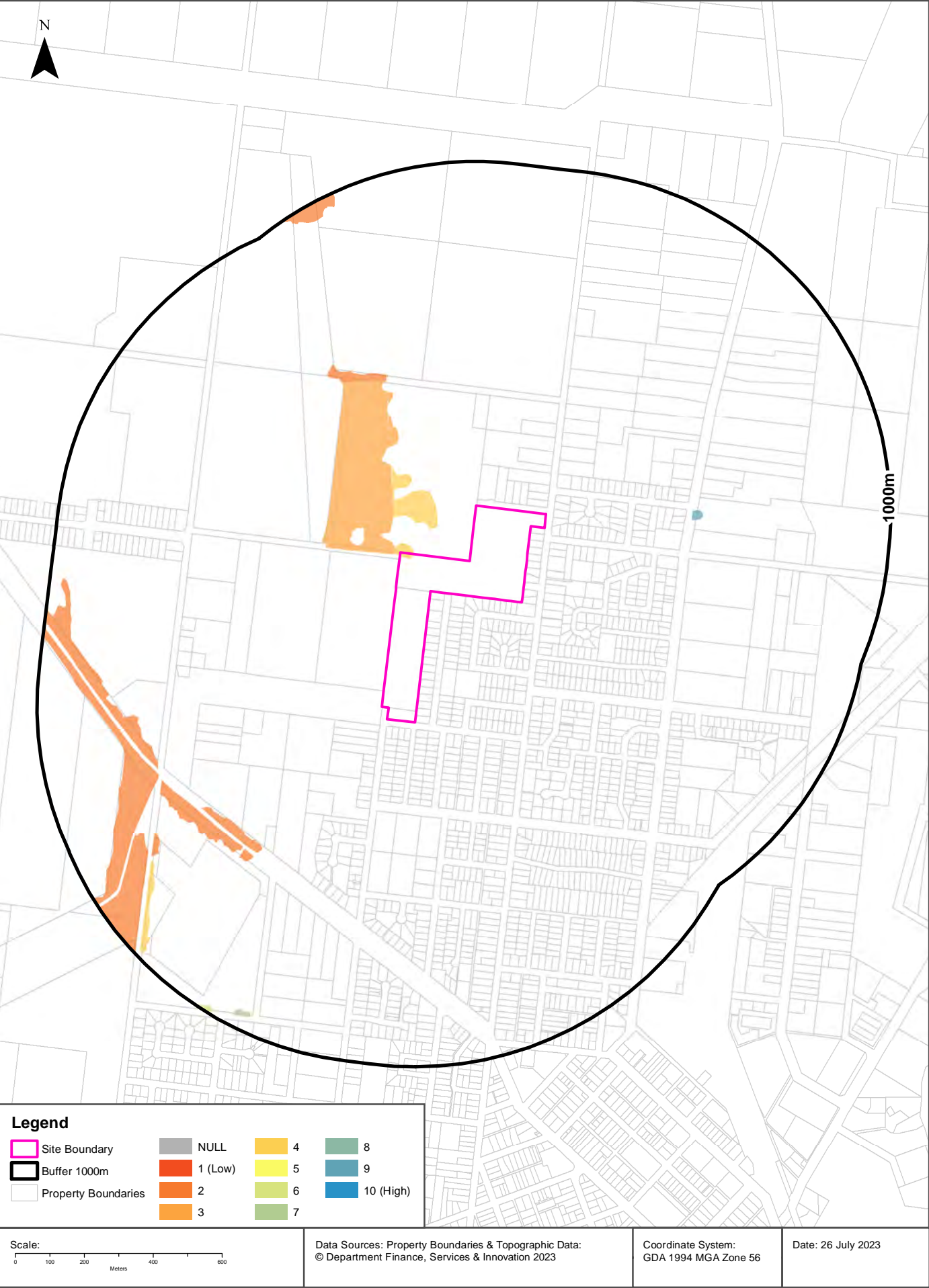
Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	Low potential GDE - from regional studies	Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitudinal dunes.	Vegetation		0m	On-site
Terrestrial	Moderate potential GDE - from regional studies	Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitudinal dunes.	Vegetation		15m	North West

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology

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# Ecological Constraints - Inflow Dependent Ecosystems Likelihood

Farnell Street, Forbes, NSW 2300



## Ecological Constraints

Farnell Street, Forbes, NSW 2300

### Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial		4 Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitudinal dunes.	Vegetation		0m	On-site
Terrestrial		3 Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitudinal dunes.	Vegetation		15m	North West
Terrestrial		9 Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitudinal dunes.	Vegetation		420m	East
Terrestrial		2 Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitudinal dunes.	Vegetation		450m	North West
Terrestrial		7 Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitudinal dunes.	Vegetation		941m	South West
Terrestrial		6 Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitudinal dunes.	Vegetation		979m	South West

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology

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# Ecological Constraints

Farnell Street, Forbes, NSW 2300

## NSW BioNet Atlas

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

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Anseranas semipalmata	Magpie Goose	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Botaurus poiciloptilus	Australasian Bittern	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Calidris acuminata	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	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 hypoleucos	Grey Falcon	Vulnerable	Category 2	Vulnerable	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Gelochelidon nilotica	Gull-billed Tern	Not Listed	Not Sensitive	Not Listed	CAMBA
Animalia	Aves	Grus rubicunda	Brolga	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	Hydroprogne caspia	Caspian Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Melanodryas cucullata cucullata	Hooded Robin (south-eastern form)	Vulnerable	Not Sensitive	Not Listed	
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 phoenicea	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
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	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	<i>Rostratula australis</i>	Australian Painted Snipe	Endangered	Not Sensitive	Endangered	
Animalia	Aves	<i>Stagonopleura guttata</i>	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Stictonetta naevosa</i>	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Tringa glareola</i>	Wood Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Tringa nebularia</i>	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Tringa stagnatilis</i>	Marsh Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Mammalia	<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Plantae	Flora	<i>Diuris tricolor</i>	Pine Donkey Orchid	Vulnerable	Category 2	Not Listed	

Data does not include NSW category 1 sensitive species.

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

## Location Confidences

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

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

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# Appendix C

## HISTORICAL TITLE SEARCH



ABN: 36 092 724 251  
Ph: 02 9099 7400  
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney  
Sydney 2000  
GPO Box 4103 Sydney NSW 2001  
DX 967 Sydney

### Summary of Owners Report

Re: - Farnell Street, Forbes, NSW 2300

Description: - Lot 7332 D.P. 1166365 & Lot 7025 D.P. 1020631

#### As regards Lot 7332 D.P. 1166365

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) &amp; Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
	<u>As regards the part numbered (1) on the attached Cadastral Records Enquiry Report</u>	
31 <sup>st</sup> October 1891	Crown Reserve No. 14751 for Gravel Pit	Government Gazette 31 <sup>st</sup> October 1891 Folio 8713
	Annual Lease 9751 for Gravel Pit  Withdrawn from Annual Lease 9751 by Government Gazette 18 <sup>th</sup> November 1899 Folio 8706	
18 <sup>th</sup> November 1899	Crown Reserve No. 30115 from Lease generally for Gravel	Government Gazette 18 <sup>th</sup> November 1899 Folio 8717
14 <sup>th</sup> February 1975	Revocation of Crown Reserve No. 14751	Government Gazette 14 <sup>th</sup> February 1975 Folio 558.
	<u>As regards the part numbered (2) on the attached Cadastral Records Enquiry Report</u>	
20 <sup>th</sup> December 1890	Crown Reserve No. TSR 13183	Government Gazette 20 <sup>th</sup> December 1890 Folio 9757
1892	Crown Plan 95-3035 also showing this land as part of a road 500 links wide	
14 <sup>th</sup> January 1972	Revocation of Crown Reserve No. TSR 13183	Government Gazette 14 <sup>th</sup> January 1972 Folio 161
	<u>Continued as regards the whole of the subject land</u>	
17 <sup>th</sup> June 1977	Government Gazette 17 <sup>th</sup> June 1977 Folio 2428 contains a diagram that reflects the part of the subject land that I have numbered (1) as Vacant Crown Land and the part of the subject land I have numbered (2) as Road.	
	The records maintained by NSW LRS do not disclose the subject land to form a part of a current reserve.  It is known that unalienated crown lands in the Parish of Forbes to be comprised within Crown Reserve No. 750158 for Future Public Requirements notified in Government Gazette dated 9 <sup>th</sup> June 2007 Folios 4182 and 4183.  Furthermore, I could find no evidence of the part I have numbered (2) and being identified in the 1977 gazette as Road, having been closed.	
	# The State of New South Wales	7332/1166365

# Denotes current registered proprietor

Continued over.



ABN: 36 092 724 251  
Ph: 02 9099 7400  
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney  
Sydney 2000  
GPO Box 4103 Sydney NSW 2001  
DX 967 Sydney

Continued as regards Lot 7332 D.P. 1166365

Leases: - NIL

Easements: -

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As regards Lot 7025 D.P. 1020631

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) &amp; Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
	Formerly a Crown Road 500 links wide	
20 <sup>th</sup> December 1890	Crown Reserve No. 13183 for Travelling Stock	Gazette
	# The State of New South Wales	7025/1020631

# Denotes current registered proprietor

Leases: - NIL

Easements: -

- 7<sup>th</sup> July 1961 (Gazette & Crown Plan 1958-3035) Easement for Transmission Line.

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Yours Sincerely  
Mark Groll  
27 July 2023

