PRELIMINARY SITE INVESTIGATION

542 Upper Moore Creek Road,

MOORE CREEK, NSW, 2340

Kelly Covey Group Pty Ltd
Report No.:40579-R01 -Rev01
October 2024

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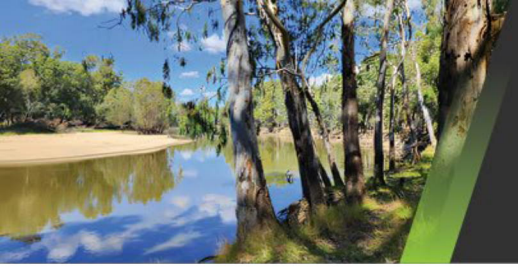

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542 UPPER MOORE CREEK ROAD,

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Kelley Covey Group Pty Ltd
Report No.: 40579-R01-Rev01
October 2024

Prepared For:	Prepared By:	Reviewed By:
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Status	Date	Prepared	Reviewed	Approved
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Executive Summary

EnviroScience Solutions Pty Ltd (ESS) was engaged by **Kelley Covery Group** to undertake a preliminary site investigation (PSI) for the property located at 542 Upper Moore Creek Road, Moore Creek, NSW, 2340.

The client has indicated that the proposed development comprises the subdivision of the site for the construction of residential properties.

Background

The site has previously been used for rural residential purposes and livestock grazing, and is predominantly surrounded by residential properties to the north, east, and south-west, and cleared land to the south and west.

The land is currently zoned R2 (Low Density Residential) as per the *Tamworth Regional Local Environmental Plan 2010.*

The site currently consists of a house in the north-western corner and two dams intersected by a stream running from the north-west corner of the site to the east. The site is predominantly cleared and consists of medium length, relatively consistent grass cover.

The formal description of the site is Lot 56-58 and DP 1120933.

Objectives

To assess whether the site is suitable for the proposed future use in accordance with the R2 (Low Density Residential) zoning, or whether further investigation and/or remediation is required.

Scope of Works

This PSI comprised the review of desk-based environmental data and a site walkover on 10 October 2024.

Summary of Key Findings and Observations

The key observations from the site walkover were as follows:

- Four stockpiles were identified including the following:
  - Three stockpiles containing general waste and non-friable asbestos containing materials to the east of the house; and

- One soil stockpile on the central western boundary.

- Asbestos containing materials (ACM) were observed within the house and in waste stockpiles east of the house;
- There was evidence of fire damage in the house;
- A soil stockpile (approximately 15 m^3) was present on the central western boundary of the site;
- The house and land were vacant, and only used for livestock; and
- Non-ACM wastes were observed in the south-eastern corner of the site.

Summary and Recommendations

The available site history indicates that the site has previously been used for rural residential purposes and stock grazing, and as such, the site generally presents a low environmental risk.

The identified sources of contamination include the soil stockpile located on the central western boundary of the site, the house, and three waste stockpiles to the east of the house. No potential off-site sources of contamination were identified.

If demolition of the house be required prior to development of the site, an in-depth scope of works should be produced for the site outlining required controls and management of the identified asbestos materials on site. It is recommended that a Class B (non-friable) licensed asbestos removalist is engaged to remove the ACM from the house and the waste stockpiles to the east of the site.

Given the composition and history of the soil stockpile on the western boundary is unknown, investigation of the stockpile should be conducted. Systematic sampling should be conducted to ensure the samples are representative and soil below the surface is included in the analysis. Sampling should be conducted depending on the intended use of the soil (i.e., on-site reuse, off-site reuse, or off-site disposal) in accordance with the appropriate guidelines.

It is also recommended that the wastes in the south-eastern corner of the site are removed prior to the commencement of the development, and if impact is observed following the removal of the wastes, further investigation is undertaken.

An unexpected finds procedure should be implemented during development should further areas of potential asbestos containing materials or landfilled waste be uncovered.

Lead paint samples were not collected as part of this PSI, due to the age of the property it is likely that the paint within the house is lead based paint. Analysis should be undertaken to confirm this prior to demolition.

If the recommendations are followed, the site is suitable for use as a low-density residential development, in accordance with the zoning – R2 (Low-Density Residential).

1. INTRODUCTION

EnviroScience Solutions Pty Ltd (ESS) was engaged by Kelly Covey Group Pty Ltd (KCG) to undertake a preliminary site investigation (PSI) for the property located at 542 Upper Moore Creek Road, Moore Creek, NSW, 2340 (the Site). The site is comprised of three lots including Lot 56, 57, and 58 in Deposited Plan (DP) 1120933.

This PSI has been prepared in general accordance with the *Consultants reporting on contaminated land* (NSW EPA, 2020).

The Site Location Plan is presented in Figure 1, Appendix A.

2. OBJECTIVES AND SCOPE OF WORKS

The objective of the Preliminary Site Investigation (PSI) was to:

- Determine if the site is suitable for its intended site use, or requires further investigation, remediation or management prior to development works commencing.

To achieve the objective, the scope of works includes:

- A review of the site history and identification of potential legacy contaminants;
- A site visit to identify current activities undertaken on the site and surrounding areas;
- Assessment of the condition of the site and the surrounding environment;
- Preparation of a conceptual site model to document the identified sources, pathways, and receptors; and
- Determination of whether the site, in its present state is suitable for use, or whether further investigation, remediation, or management is required.

3. SITE DESCRIPTION

3.1. Site Identification

- Site Owner: Unknown;
- Address: 542 Upper Moore Creek Road, Moore Creek, NSW, 2340;
- Site Area: 33.5 hectares;
- Planned Land use: In accordance with zoning – R2 (Low Density Residential);
- Local Government Area: Tamworth Regional Council; and
- Formal Property Description: Lot 56-58 and DP 1120933.

The Site Location Plan is presented in Figure 1, Appendix A.

With respect to the zoning of R2 – Low Density Residential, the *Tamworth Regional Local Environmental Plan 2010* presents the following further information on the objectives of the zone:

- *"To provide for the housing needs of the community within a low density residential environment.*
- *To enable other land uses that provide facilities or services to meet the day to day needs of residents."*

3.2. Site Description

The site currently consists of a house in the north-western corner and a stream running from the north-west corner of the site to the east where it intersects with two dams. The site is predominantly cleared and consists of medium length, relatively consistent grass cover. The site fully fenced with barbed-wire fencing.

The site elevation increases in the centre and slopes gently outwards to the south and north.

The Site Layout is presented in Figure 2, Appendix A.

The Site Description is presented in Figure 3, Appendix A.

A photographic log of the site is presented in Appendix B.

3.3. Surrounding Land Uses

Current land uses in the vicinity of the site are predominantly low density residential and rural residential. For each direction, the current land uses have been listed from closest to furthest proximity to the site, as follows:

- North: rural-residential, Kingfisher Drive;
- East: low density residential/cleared land;
- South: cleared land; and
- West: rural-residential/cleared land.

3.4. Proposed Development

The client has indicated that the proposed development comprises the subdivision of the site for the construction of residential properties.

4. ENVIRONMENTAL SETTING

The information in this section has been predominantly sourced from the environmental database search (Appendix C).

4.1. Topography

A review of the topographic map indicated that the elevation is highest in the centre of the site at approximately 453 m Australian Height Datum (AHD). The elevation decreases to approximately 440 m AHD in the north-west and south-west corners of the site. The site is relatively flat and sloping from the centre and east of the site to the western portion of the site.

4.2. Soil Landscape

The soil type within the area is classified as being Dermosol soils (Ob14), which are described as:

- *"Almost flat to strongly undulating terrain with long gentle slopes sometimes broken by ridges: chief soils are hard alkaline red soils (Dr2.23). Associated are relatively small occurrences of many soils, including: dark cracking clays, usually on slopes and in valleys; and shallow loams, usually on ridges; (Dy2.43) and (Dy3.43) soils, usually in flat areas and valleys."*

4.3. Geology

With respect to the geological map, the solid geology of the site is classified as geological unit Residual Deposits (N_r), which is described as:

- *"A weakly consolidated regolithic residuum such as soil or saprolite mostly developed in situ as a result of advanced weathering and/or pedogenesis."*

Solid (bedrock) geology mapping is not available for this site, however, drillers logs from nearby boreholes indicate the subsurface predominantly comprises clays, basalt, and shales.

4.4. Acid Sulfate Soils

There is a low probability (6-70%) of the occurrence of acid sulfate soils on the site. Given the elevation of the site is >400 m AHD and the inland location of the site, it is unlikely that acid sulfate soils would be encountered on the site.

4.5. Hydrology

There are two surface water bodies (man-made reservoirs) present on site that are intersected by a watercourse running from the south-east to the north-west. The creek was not flowing at the time of the site walkover and there were sections of stagnant water. This creek discharges to Moore Creek which is located approximately 4 km to the north. Moore Creek then discharges into Peel River approximately 5.5 km to the north-west.

Given the hilly nature of the site, surface water flow direction is likely to be towards the unnamed central creek, but generally towards the north. Surface water is anticipated to follow the local topography in a north-western direction and will likely discharge into tributaries of the Peel River.

4.6. Hydrogeology

The hydrogeology of the site consists fractured or fissured, extensive aquifers of low to moderate productivity. The underlying geology is likely to have a low permeability due to the formation containing clay, basalt, and shales. Typically, the hydraulic conductivity of clay soils from 10^{-10} to 10^{-12} m/s (low permeability), whilst silty sand soils have 10^{-7} to 10^{-3} (moderate permeability) (Freeze & Cherry, 1979).

Given the hilly nature of the area, the groundwater flow direction cannot be accurately determined. Though, the indicative groundwater flow direction may be in a northerly direction towards Moore Creek.

There were no abstraction wells identified on site, although, within a 2,000 m buffer of the site, 111 groundwater wells were identified, with the closest well located approximately 110 m south-west of the site. A total of 74 water supply wells, 22 stock and domestic wells, 9 wells of unknown use, 3 monitoring wells, and 3 irrigation wells were identified within a 2,000 m buffer of the site.

There are several water supply wells or stock and domestic wells located downgradient (i.e., north-west) of the site, with the closest well located approximately 220 m north-west of the site.

4.7. Proximity to Local Senstive Environments

There are no listed Ramsar Wetlands located within 1,000 m of the site.

The following potential groundwater dependent ecosystems (GDEs) present within 1,000 m of the site were identified from regional studies:

- High potential GDE approximately 180 m north-west of the site;
- High potential GDE approximately 300 m north-west of the site;
- High potential GDE approximately 630 m north-west of the site; and
- High potential GDE approximately 730 m south-west of the site.

There are no inflow dependent ecosystems (IDEs) on the site. The location of the IDEs overlaps the locations of the GDEs. As such, the closest IDE was identified approximately 180 m west of the site (cross gradient) and was classified as a high likelihood of being present. An additional highly likely IDE was identified approximately 630 m north-west (downgradient) of the site. Clusters of an IDE classified as moderately likely to be present was identified approximately 730 m to the south-west of the site and a cluster classified as a low likelihood of existing was identified approximately 300 m west of the site.

4.8. Heritage

There are no heritage list items present on the site or in the areas immediately surrounding the site.

4.9. Natural Hazards

The site is not categorised within the Bush Fire Prone Land map as prone to bushfires.

The closest bushfire prone land is located adjacent north of the site within the low-density residential area and is classed as Vegetation Category 3, indicating that this area is at a medium risk of bushfire. Approximately 490 m and 700 m north-west of the site, there are clusters of vegetation classed as Vegetation Category 1 and Vegetation Category 2, respectively. Areas classified as Vegetation Category 1 are considered to be at the highest risk for bushfires, while areas classed as Vegetation Category 2 are considered to be the lowest risk for bushfires.

4.10. Previous Reports

ESS is not aware of the preparation of any previous reports for the site.

5. SITE HISTORY

5.1. Historical Aerial Photographs

A review of historical aerial photographs provided in the environmental database search report for the site is summarised in Table 1. The historical aerial photographs are provided in Appendix C**.**

It should be noted that the historical aerial photographs dated 1964 to 1976 are black and white images which may affect the accuracy of the interpretations. This should be considered when reviewing the written explanation of the site and surrounding land use for those years.

Table 1. Historical imagery analysis for 542 Upper Moore Creek Road, Moore Creek, NSW, 2340.

Year	Description of Site	Surrounding Land
1964	The historical aerial photograph is pixellated, though it is evident that there was a building or cluster of buildings present in the north-western corner of the site. The site was extensively cleared, and a water course was evident from the northwest corner to the central east of the site.	The historical aerial photograph is pixellated, though it is evident that the surrounding area had been extensively cleared potentially for agricultural purposes. Rural residential properties were present to the north and the south-east of the site.
1976	The site appeared relatively unchanged from the 1964 photograph, except for the two dams that appeared in the central eastern section of the site.	Two rural residential properties appeared adjacent to the western boundary, and one rural residential property was established to the north-west of the site. An area also north-west of the site appeared to be under development.
1989	The site appeared relatively unchanged from the 1976 photograph.	The surrounding area appeared to be relatively unchanged from the 1976 photograph, except for the development of several residential properties north-west of the site.

Year	Description of Site	Surrounding Land
1994	The site appeared relatively unchanged from the 1989 photograph.	The surrounding area appeared relatively unchanged from the 1989 photograph.
2003	The site appeared relatively unchanged from the 1994 photograph.	The surrounding area appeared relatively unchanged from the 1994 photograph.
2013	The site appeared relatively unchanged from the 2003 photograph, except for the presence of a stockpile located centrally on the western boundary of the site.	Extensive development of low-density residential properties occurred to the north of the site. The remainder of the surrounding area was relatively unchanged from the 2003 photograph.
2023	The site appeared relatively unchanged from the 2013 photograph, though, the southern section of the site had evidently been used for cropping.	Several residential properties were built to the north, east, and south-west of the site.

With reference to the above historical aerial photographs, the site has predominantly been used for residential purposes since at least 1964. Potential agricultural use was evident in the 2023 aerial photograph and given the size of the site and its location, it is likely that agricultural practices have occurred on the site. It is also noted that a stockpile of unknown material appeared in the 2013 aerial imagery. As such, the only potentially contaminative historical use of the site identified is cropping, though, the contents of the stockpile on the western edge of the site may need to be verified.

Generally, the surrounding land uses have historically been rural residential and potentially agricultural in all directions from the site. Areas to the north and east of the site have been converted from rural properties and open paddocks to low-density residential properties overtime.

5.2. Business Directory Records

There were no historical potentially contaminating activities identified for the site.

5.3. Historical Maps

The available historical maps dated 1942, 1975, and 2015 were reviewed. The historic maps for the site did not show any additional important environmental information regarding the site.

6. PUBLIC RECORDS

6.1. Tamworth Regional Council, Section 10.7(2) Planning Certificates

A Section 10.7 Planning Certificate was obtained from the Tamworth Regional Council for Lots 56-58/DP 1120933. The certificates for Lots 56-57/DP 1120933 (Certificate No.: PC2024-0333) and Lot 58/DP 1120933 (Certificate No.: PC2023-2073) are presented in Appendix D.

A summary of the key environmental/contaminated land provisions within the certificates is presented below:

- The site is not in an area of outstanding biodiversity value under the Biodiversity Conservation Act 2016.
- The site is not within a conservation area under the Tamworth Regional Local Environmental Plan 2010.
- The site does not include an item of environmental heritage under any environmental planning instrument.
- The land to which this certificate relates is not subject to the matters identified by Section 59(2) of the Contaminated Land Management Act 1997.
- The use of loose-fill asbestos insulation has been identified in parts of Tamworth, as such, the building(s) on the subject site may contain loose-fill asbestos insulation.

6.2. Licensed Activities Under the POEO Act 1997

There are currently no licensed activities under the Protection of the Environment Operations (POEO) Act 1997 on subject site.

Three former/surrendered licensed activities were identified for the water courses located north of the site and running through the site from the north-west to the east. The licensed activities involved the application of herbicides to waterways. All three licenses were surrendered in 2000.

6.3. NSW Contaminated Sites Notified to the EPA

There are no contaminated sites notified to the Environment Protection Authority (EPA) on or in the vicinity of the site.

6.4. NSW EPA Notices

There are no EPA notices on or in the vicinity of the site.

6.5. Other Potentially Contaminating Sites

There were no national liquid fuel facilities or waste management facilities were identified within on site or in the surrounding areas of the site.

6.6. Per and Poly-Fluoroalkyl Substances (PFAS)

A review of the Per- and Poly-fluoroalkyl Substances (PFAS) investigation programs and source sites indicated that the site was not subject to PFAS investigation or management, and no sites were listed in the surrounding areas of the site.

6.7. Defence Sites

There are no Defence Controlled Areas (DCA), Defence 3 Year Regional Contamination Investigation Programs (RCIP), or Unexploded Ordnance (UXO) and no sites were listed in the surrounding areas of the site.

7. SITE WALKOVER

The subject site walkover was undertaken on 10 October 2024. A photographic log is presented as Appendix B.

The key findings observed during the site walkover were as follows:

7.1. General Observations

- Four stockpiles were identified including the following:
  - Three stockpiles containing general waste and non-friable asbestos containing materials to the east of the house; and
  - One soil stockpile on the central western boundary.
- There is an old house located on the site with evidence of structural damage and also fire damage in the kitchen of the house;
- The house was vacant and in poor condition;
- There was a soil stockpile on the central western boundary in close proximity (30 m) to Upper Moore Creek Road. With reference to the aerial photographs, the material comprised a light grey/white material and consists of approximately 15 m^3 of material (c. 30 tonnes). Though, during the site walkover it was noted that the material appeared to be soil;
- Potential asbestos containing materials (ACM) including vinyl tiles, fibre cement walls, fibre cement gables, electrical panels, and light switches were observed within the building in the north-western section of the site;
- ACM including asbestos pipes and debris were also observed detached from the house, to the east. ACM in and around the house was in a non-friable condition;
- In the area that the asbestos pipes and fragments were found (east of the house), there was also brick, metal, tyres, and electronic waste;
- Wastes in the south-eastern corner of the site included metal, wood, old tyres, and car parts;
- The surface elevation increases in the centre of the site forming a hill;
- There was no evidence of underground or above ground storage tanks;
- Vegetation was overgrown (as a result there may be other wastes that could not be seen);
- The site was used for grazing by livestock;

- There was no evidence of vegetation stress;
- There was no evidence of sheep dips;
- There was no evidence of landfilling;
- The site was covered in medium-high length grass, relatively consistent in coverage;
- There was no evidence of abnormal odours or soil staining;
- The entire site was fenced predominantly in rural barbed-wire fencing; and
- Two water bodies (dams) were present in the eastern section of the site. It is noted that herbicides were applied to these waterways prior to 2000 when the licenses were surrendered.

7.2. Off-Site Assessment

- There was no evidence of cropping in the surrounding areas of the site;
- There was an active construction site to the east of the site.

8. PRELIMINARY CONCEPTUAL SITE MODEL

8.1. Potential Sources of On-site Contamination

Information obtained from the environmental database search and the site walkover indicates that the site has previously been used for rural residential purposes only. The aerial imagery from 2023 indicates that the southern portion of the site was potentially used for cropping, though this is not conclusive.

The following potential sources of contamination were identified:

- Stockpiled soil;
- Waste stockpiles;
- House; and
- Cropland.

8.2. Contaminants of Potential Concern

Given the contents of the stockpile is unknown, a broad range of contaminants should be considered. The contaminants of potential concern (CoPC) associated with the sources of contamination include the following:

- Asbestos;
- Lead paint;
- Organochlorine Pesticides (OCP);
- Organophosphate Pesticides (OPP);
- Heavy metals;
- Total Recoverable Hydrocarbons (TRH);
- Benzene, Toluene, Ethylbenzene, Xylenes (BTEX); and
- Polycyclic Aromatic Hydrocarbons (PAH).

8.3. Potential Pathways

The key exposure pathways for a receptor to encounter the CoPC is through direct dermal contact with impacted soil, direct dermal contact with impacted water, inhalation of impacted soil particles as dust, incidental ingestion of impacted soil, incidental ingestion of impacted water, and the consumption of impacted water.

Migration pathways include leaching of contaminants from the identified sources, migration of contaminants through the soil column, overland flow of impacted surface water, transport of impacted soils and sediments (entrained sediments in water), and transport of contaminants through groundwater and subsequent discharge to surface water bodies.

8.4. Sources to Sensitive Receptor Linkages

The nearest ecological receptor is a watercourse located on the site which runs from the south-east to the north-west. It is likely that the creek is ephemeral.

The downgradient water supply wells are also potential sensitive receptors, with the closest well located approximately 220 m north-west of the site.

The principal receptors on the site include the future workers involved in the proposed development of the site and the users of the site following the completion of the development.

9. RESULTS

9.1. Preliminary Asbestos Assessment

A total of seven (7) samples were collected and scheduled for an asbestos analysis at a NATA accredited laboratory. The laboratory certificate of analysis is presented in Appendix E.

Within the house, two fibre cement samples were obtained from the bathroom (B40579-S05) and kitchen (B40579-S07), with both testing positive for chrysotile asbestos.

Four samples were obtained from stockpiled waste to the east of the house, with one fibre cement sample testing positive for chrysotile asbestos (B40579-S03). No asbestos was detected in the remaining three samples (including vinyl tile (B40579-S01), insulation (B40579-S02), and fibre cement roof (B40579-S06)) obtained from the stockpiled waste.

One fibre cement pipe (B40579-S04) located to the east of the house was sampled and tested positive for chrysotile and amosite asbestos. The bituminous electrical backing board in the western section of the house was assumed to contain asbestos due to the age of the board.

The samples positive for asbestos presence were in a poor to fair, non-friable condition at the time of the assessment. Should demolition of the house be required prior to development of the site, an in-depth scope of works should be produced for the site outlining required controls and management of the identified asbestos materials on site.

A visual clearance will be required by a Licenced Asbestos Assessor following removal of the asbestos materials.

10. DISCUSSION

Based on the information obtained from the environmental database search and the site walkover, the site has historically been used as a rural residential property and for grazing by livestock. During the site walkover, the potential sources of contamination identified include the soil stockpile on the central western boundary, the waste in the south-eastern corner of the site, the old house, the three waste stockpiles adjacent east of the house, and cropping.

It was noted during the site walkover that the soil stockpile on the central western boundary appeared to not contain any asbestos containing materials, however, the chemical composition of the soil remains unknown without further investigation.

There was no evidence of ACM within the waste in the south-eastern corner of the site and given the isolated location (i.e., no nearby sheds or storage areas) of the vehicle waste in the area, it is unlikely that the soil has been subject to oil spills (i.e., during car servicing). As such, the environmental risk associated with the car wastes in the south-eastern corner of the site is likely to be low. However, the wastes should be removed prior to the commencement of the development, and if impact is observed following the removal of the wastes, further investigation may be required.

In the aerial imagery from 2023, it was evident that the southern lot (Lot 56 DP1120933) had potentially been used for cropping or for hay. It is noted that this observation has not been confirmed and that during the site walkover the land was used for grazing by livestock. As such, the environmental risks (such as the application of fertilisers and pesticides) associated with cropping is likely to be low.

Seven samples were obtained from the house and the stockpiled waste adjacent (east of the house) to the house to be analysed for asbestos. The internal walls of the house and a fibre cement sample obtained from the waste stockpile (east of the house) tested positive for chrysotile asbestos. A fibre cement pipe located east of the house also tested positive for chrysotile and amosite asbestos. The remaining three samples collected from the waste stockpile contained no asbestos. It is noted that any sampled or suspected ACM encountered during the site walkover was classified as non-friable, and as such, the probability of asbestos fibres being present in the soil is considered low. Additionally, the full extent of the waste on site may have been restricted during the site walkover by the overgrown vegetation and the actual extent of waste may be greater.

Based on the information obtained from the environmental databases, the historical business directories, and the site walkover, the contaminants of concern include the soil stockpile on the western boundary and the house and associated waste stockpile east of the house. The conceptual site model has been revised to reflect the findings of this investigation, as presented below.

10.1. Revised Conceptual Site Model

10.1.1. Potential Sources of Contamination

Information obtained from the historical business directory and the site walkover indicates that the site has previously been used for rural residential housing and grazing. The only potential sources of contamination identified include the soil stockpile, the waste stockpiles to the east of the house, and the house itself (in terms of hazardous materials) and the farm waste (machinery, wood waste, old tyres) etc located in the south-east of the property.

10.1.2. Contaminants of Potential Concern

The CoPC associated with the sources of contamination include:

- Asbestos;
- Lead paint;
- Organochlorine Pesticides (OCP);
- Organophosphate Pesticides (OPP);
- Heavy metals;
- Total Recoverable Hydrocarbons (TRH);
- Benzene, Toluene, Ethylbenzene, Xylenes (BTEX); and
- Polycyclic Aromatic Hydrocarbons (PAH).

10.1.3. Potential Pathways

The key exposure pathways for a receptor to encounter the CoPC is through direct dermal contact with impacted soil, direct dermal contact with impacted water, inhalation of impacted soil particles as dust, incidental ingestion of impacted soil, incidental ingestion of impacted water, and the consumption of impacted water.

Migration pathways include leaching of contaminants from the identified sources, migration of contaminants through the soil column, overland flow of impacted surface water, transport of impacted soils and sediments (entrained sediments in water), and transport of contaminants through groundwater and subsequent discharge to surface water bodies.

10.1.4. Sources to Sensitive Receptor Linkages

The principal receptors on the site include the future workers involved in the proposed development and the users of the site following the completion of the development.

11. SUMMARY AND RECOMMENDATIONS

11.1. Summary

The available site history indicates that the site has previously been used for rural residential and stock grazing, and as such, the site generally presents a low environmental risk.

The identified sources of contamination are isolated and include the soil stockpile located on the central western boundary of the site, the house (hazardous materials), and the three waste stockpiles to the east of the house and the waste identified on the south-eastern boundary of the site. No potential off-site sources of contamination were identified.

11.2. Recommendations

Given non-friable asbestos containing material was detected in the waste stockpile (east of the house) and within the house, it is recommended that a Class B (non-friable) licensed asbestos removalist is engaged to remove the ACM. During the removal, it is recommended that airborne asbestos air monitoring is conducted by a licensed asbestos accessor (LAA). At the completion of the removal, it is recommended that approximately 100 mm of topsoil is scraped from the asbestos-affected areas (i.e., the house footprint (after demolition) and the three waste stockpiles located to the east of the house). A visual clearance inspection should be undertaken by the LAA to confirm the ACM has been successfully removed. All ACM, including the scraped topsoil should be disposed of at a licensed waste facility as Special Waste – Asbestos Waste.

Given the composition and history of the soil stockpile on the central western boundary is unknown, investigation of the stockpile should be conducted. Systematic sampling should be conducted to ensure the samples are representative and soil below the surface is included in the analysis. The following scenarios should be considered depending on the intended use of the stockpile:

If the soil stockpile is to be re-used on site, it is recommended that a minimum of three soil samples are obtained from the stockpile as per the NSW EPA *Sampling Design (Part 1)* guidelines and are subsequently scheduled for a broad analytical suite at a NATA accredited laboratory to ensure the soil is suitable for the proposed use of the site.

If the soil stockpile is to be sent off-site for re-use, it is recommended that a minimum of three soil samples are collected and are subsequently scheduled for an analytical suite that is in accordance with a relevant

Resource Recovery Order or Resource Recovery Exemption as per the NSW EPA *Sampling Design (Part 1)* guidelines. Alternatively, the soil may comply with the requirements of Virgin Excavated Natural Material (VENM) outlined in the POEO Act 1997 and can be handled accordingly.

If the soil stockpile is to be sent off-site for disposal, it must be classified in accordance with the EPA 2014c. For the purpose of the waste classification, it is recommended that a minimum of three soil samples are collected. If the stockpile contains asbestos, it must be transported to an appropriately licensed waste facility.

It is also recommended that the wastes in the south-eastern corner of the site are removed prior to the commencement of the development, and if impact is observed following the removal of the wastes, further investigations should be undertaken.

An unexpected finds procedure should be implemented during development should further areas of potential asbestos containing materials or landfilled waste be uncovered.

Lead paint samples were not collected as part of this PSI, due to the age of the property it is likely that the paint within the house is lead based paint. Analysis should be undertaken to confirm this prior to demolition.

11.3. Suitability for Use Statement

Should the recommendations be followed, the site is suitable for use as a low-density residential development, in accordance with the zoning – R2 (low-density residential).

12. LIMITATIONS

It is to be noted that at the time of inspection, there was no access to the internal main structures on the property, and the proposed works were limited to areas indicated above that are outlined in this report. The following also applies;

1. To the extent permitted by law, EnviroScience Solutions Pty Ltd will not be responsible in tort, contract or otherwise for any loss or damage, including for any personal injuries or death, or any consequential loss, loss of markets and pure economic loss, suffered by the Customer, whether or not the loss or damage occurs in the course of performance by EnviroScience Solutions of this contract or in events which are in the contemplation of EnviroScience Solutions and/or the Customer or in events which are foreseeable by EnviroScience Solutions and/or the Customer.

2. To the extent that liability has not been effectively excluded by the proceeding clause, then EnviroScience Solutions limits its liability to:-

(a) The supply of services again; or

(b) The payment of the cost of supplying the services again, at the election of EnviroScience Solutions Pty Ltd.

13. REFERENCES

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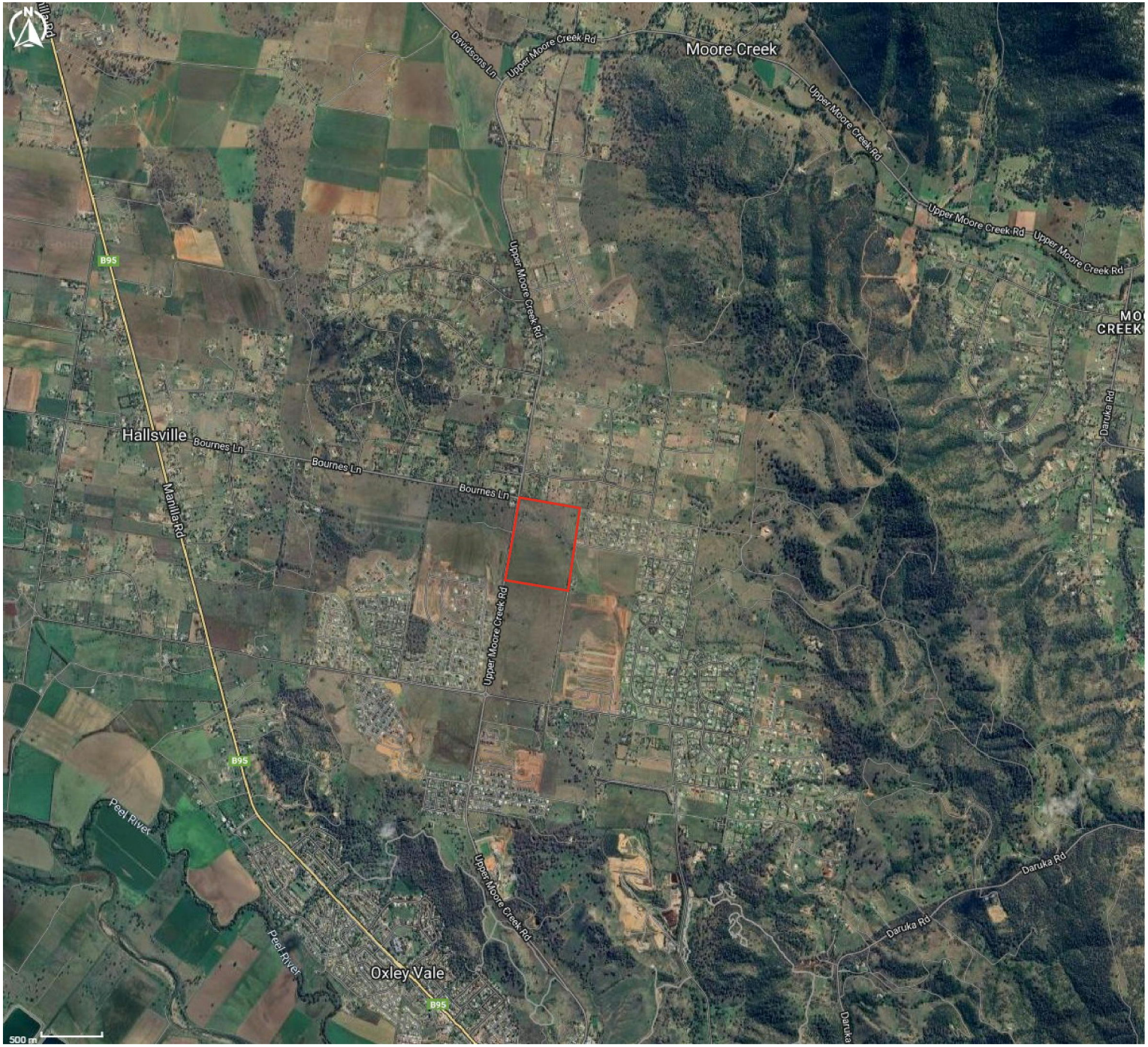
APPENDIX A – FIGURES



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F:

Figure 1 - Site Location Plan

Client No:	Job No: 40579
Client: [redacted]	

Project: Upper Moore Creek Road

Address: Moor Park, 542 Upper Moore Creek Road, Moore Creek NSW, Australia

Legend:

Site boundary

Image Source: Google Maps		Viewed: 2024-10-24	
Drawn By:	Checked By:	Date: 2024-10-24	Figure: 1

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Figure 2 - Site Layout Plan

Client No:

Job No: 40579

Clien [redacted]

Project: Upper Moore Creek Road

Address: Moor Park, 542 Upper Moore Creek Road, Moore Creek NSW, Australia

Legend:

Site boundary

Image Source: Google Maps

Viewed: 2024-10-24

Drawn By:	Checked By:	Date:	Figure:
		2024-10-24	2

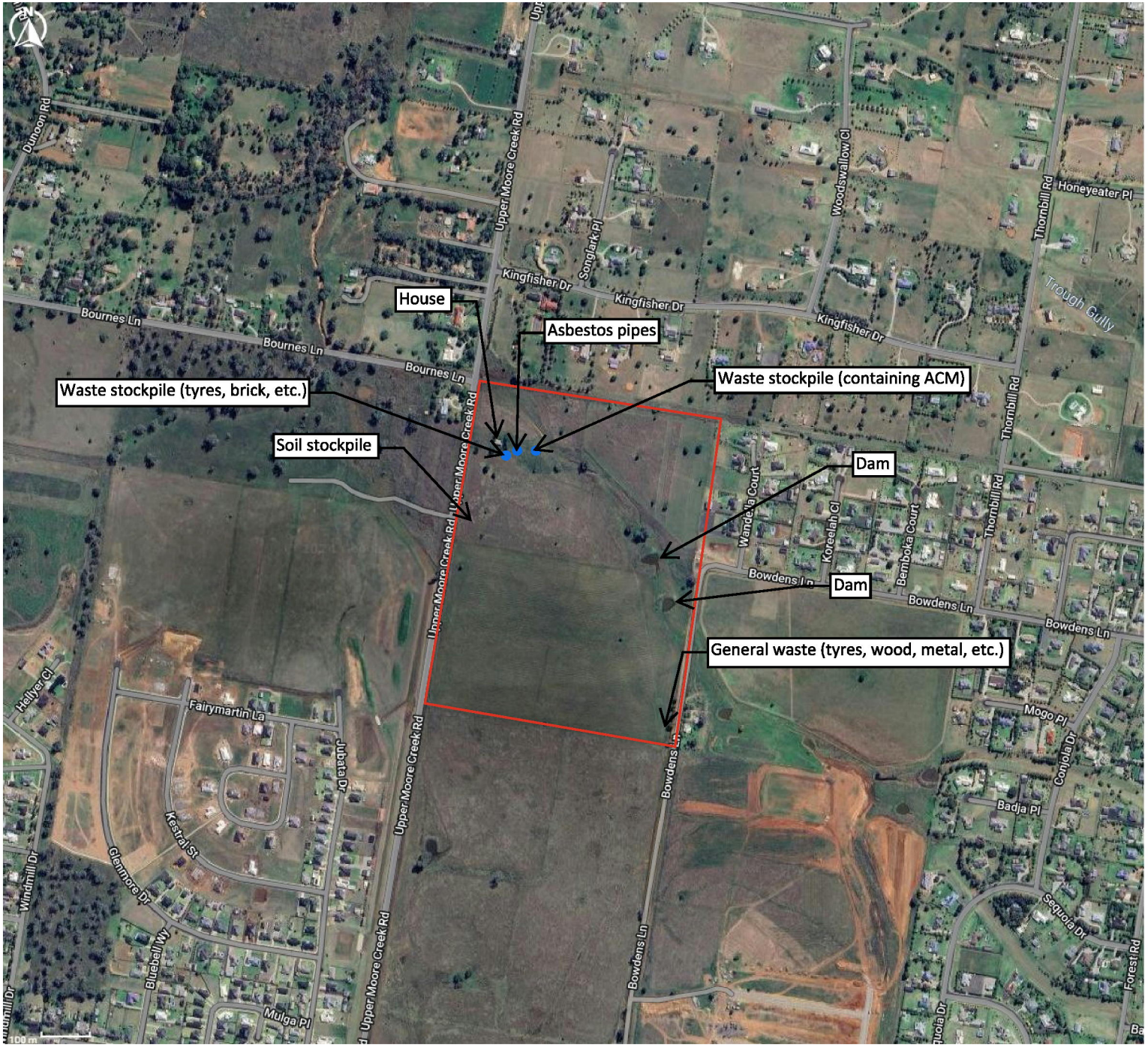

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Figure 3 - Potential Sources of Contamination

Client No:	Job No: 40579
Client: [redacted]	

Project: Upper Moore Creek Road

Address: Moor Park, 542 Upper Moore Creek Road, Moore Creek NSW, Australia

Legend:

- Site boundary
- Waste stockpiles (approx.)

Image Source: Google Maps		Viewed: 2024-10-24	
Drawn By:	Checked By:	Date: 2024-10-24	Figure: 3

APPENDIX B – PHOTOGRAPHIC LOG

Moor Park,542 Upper Moore Creek Road,Moore Creek NSW 2340

Job Number
40579

Sample Collection for Asbestos Analysis

For: [redacted]

Address: Moor Park,542 Upper Moore Creek Road,Moore Creek NSW 2340

Job No.: 40579

Ref. No.: T2410469

Date: 10/10/2024

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Moor Park,542 Upper Moore Creek Road,Moore Creek NSW 2340

Job Number
40579

Pre Sample Location

Photo	GPS Location	Description
	Latitude: -31.030212 Longitude: 150.913437	North border
	Latitude: -31.030212 Longitude: 150.914413	North Power pole, vegetation overgrown towards the property.
	Latitude: -31.030521 Longitude: 150.915512	North-east

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Job Number
40579

Photo	GPS Location	Description
	Latitude: -31.031195 Longitude: 150.915512	Access to the old house
	Latitude: -31.031546 Longitude: 150.915543	Stagnant water in creek on-site
	Latitude: -31.031652 Longitude: 150.915527	Water management system

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Photo	GPS Location	Description
	Latitude: -31.031963 Longitude: 150.915527	Old house lot south east
	Latitude: -31.031454 Longitude: 150.915070	Water management system
	Latitude: -31.031334 Longitude: 150.914474	Stockpile of general mixed wastes including: scrap metal, mattress , vinyl tile , glass , wood , apparent fire damage , composite vinyl tile sample taken (S01) , insulation sample taken (S02) , roof sample taken (S06). Sample No. B40579-S1. No asbestos detected. Sample No. B40579-S2. No asbestos detected. Sample No. B40579-S6. No asbestos detected.

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Job Number
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Photo	GPS Location	Description
	Latitude: -31.031357 Longitude: 150.914413	Fibre cement debris Fibre cement fragments. Sample No. B40579-S3. Chrysotile asbestos detected.
	Latitude: -31.031378 Longitude: 150.914398	Electronic Waste Televisions
	Latitude: -31.031319 Longitude: 150.914169	Fibre cement pipes Sample No. B40579-S4. Chrysotile and amosite asbestos detected.

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Job Number
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Photo	GPS Location	Description
	Latitude: -31.031256 Longitude: 150.914154	Brick and metal
	Latitude: -31.031353 Longitude: 150.914062	Tyres and brick
	Latitude: -31.031244 Longitude: 150.914047	Metal shed structure

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Job Number
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Photo	GPS Location	Description
	Latitude: -31.031166 Longitude: 150.913651	Old house Timber and metal
	Latitude: -31.031160 Longitude: 150.913651	Old house living room
	Latitude: -31.031055 Longitude: 150.913742	West - old electrical board

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Photo	GPS Location	Description
	Latitude: -31.031088 Longitude: 150.913773	Bathroom Fibre cement walls. Sample No. B40579-S5. Chrysotile asbestos detected.
	Latitude: -31.031137 Longitude: 150.913849	Dining room Fibre cement walls
	Latitude: -31.031168 Longitude: 150.913895	Kitchen Fibre cement walls. Sample No. B40579-S7. Chrysotile asbestos detected.

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Photo	GPS Location	Description
	Latitude: -31.031286 Longitude: 150.913818	Old house exterior south Fibre cement walls
	Latitude: -31.031218 Longitude: 150.913895	Old house exterior east Fibre cement gable
	Latitude: -31.031097 Longitude: 150.913864	Old house north Timber and metal

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Job Number
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Photo	GPS Location	Description
	Latitude: -31.030798 Longitude: 150.914352	Water management system
	Latitude: -31.031078 Longitude: 150.914810	Stagnant water 2
	Latitude: -31.031204 Longitude: 150.915619	Metal debris

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Photo	GPS Location	Description
	Latitude: -31.030441 Longitude: 150.915726	North -east
	Latitude: -31.031252 Longitude: 150.918060	East
	Latitude: -31.033150 Longitude: 150.917969	Water tank

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Job Number
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Photo	GPS Location	Description
	Latitude: -31.033287 Longitude: 150.917313	Water management system
	Latitude: -31.032953 Longitude: 150.917145	Water management system
	Latitude: -31.032871 Longitude: 150.916840	Water management system

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Job Number
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Photo	GPS Location	Description
	Latitude: -31.032461 Longitude: 150.916687	Water management system
	Latitude: -31.032217 Longitude: 150.916595	Stagnant water 3
	Latitude: -31.031990 Longitude: 150.916031	Water management system

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Photo	GPS Location	Description
	Latitude: -31.033321 Longitude: 150.916061	Solar panel
	Latitude: -31.034100 Longitude: 150.917267	Stagnant water 4
	Latitude: -31.034292 Longitude: 150.917770	Drain

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Photo	GPS Location	Description
	Latitude: -31.036711 Longitude: 150.917236	Metal
	Latitude: -31.036428 Longitude: 150.917374	Waste Wood, dog bed, metal, tyres, vehicle parts, fire extinguisher.
	Latitude: -31.034901 Longitude: 150.915726	South

Sample Collection for Asbestos Analysis

Moor Park,542 Upper Moore Creek Road,Moore Creek NSW 2340

Job Number
40579

Photo	GPS Location	Description
	Latitude: -31.032978 Longitude: 150.912888	Stockpile

Sample Collected By

[redacted]

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APPENDIX C – ENVIRONMENTAL DATABASE SEARCH

LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 25 Sep 2024 11:22:37

Reference: LS062274 EP

Address: Moore Creek Road, Moore Creek, NSW 2340

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	24/07/2024	24/07/2024	Quarterly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	21/05/2024	21/05/2024	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority NSW	02/09/2024	13/08/2024	Monthly	1000m	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority NSW	02/09/2024	02/09/2024	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority NSW	06/08/2024	14/07/2021	Quarterly	1000m	0	0	0
Notices under the POEO Act 1997	Environment Protection Authority NSW	03/09/2024	03/09/2024	Monthly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	29/04/2024	29/11/2022	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	20/09/2023	07/09/2020	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority NSW	24/09/2024	14/06/2024	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Australian Department of Defence	24/09/2024	24/09/2024	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Australian Department of Defence	24/09/2024	24/09/2024	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	24/09/2024	24/09/2024	Monthly	2000m	0	0	0
Defence Controlled Areas	Australian Department of Defence	17/07/2024	17/07/2024	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Australian Department of Defence	05/08/2024	02/09/2022	Quarterly	2000m	0	0	0
National Unexploded Ordnance (UXO)	Australian Department of Defence	17/07/2024	17/07/2024	Quarterly	2000m	0	0	1
EPA Other Sites with Contamination Issues	Environment Protection Authority NSW	13/11/2023	15/12/2022	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority NSW	26/08/2024	26/08/2024	Monthly	1000m	0	0	0
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority NSW	26/08/2024	26/08/2024	Monthly	1000m	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority NSW	26/08/2024	26/08/2024	Monthly	1000m	3	3	3
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	0	0	0
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	0	0
Points of Interest	NSW Department of Customer Service - Spatial Services	18/07/2024	18/07/2024	Quarterly	1000m	1	2	3
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	18/07/2024	18/07/2024	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	18/07/2024	18/07/2024	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	09/08/2024	09/08/2024	Quarterly	1000m	0	0	0
State Forest	Forestry Corporation of NSW	12/12/2023	11/12/2023	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Geoscience Australia	17/04/2024	19/08/2019	Annually	1000m	1	1	2

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Climate Change, Energy, the Environment and Water	28/05/2024	23/02/2018	Quarterly	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	28/05/2024	20/06/2023	Annually	2000m	0	0	111
NSW Seamless Geology Single Layer: Rock Units	NSW Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	1	1	2
NSW Seamless Geology Single Layer: Trendlines	NSW Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	0	0	0
NSW Seamless Geology Single Layer: Geological Boundaries and Faults	NSW Department of Regional NSW	06/12/2023	31/05/2023	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Department of Regional NSW	26/04/2024	14/03/2024	Annually	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	12/01/2024	17/02/2011	Annually	1000m	1	1	3
Soil Landscapes of Central and Eastern NSW	NSW Department of Climate Change, Energy, the Environment and Water	12/12/2023	27/07/2020	Annually	1000m	2	2	3
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Housing and Infrastructure	13/09/2024	16/08/2024	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	12/01/2024	21/02/2013	Annually	1000m	1	1	2
Dryland Salinity - National Assessment	Australian Bureau of Agricultural and Resource Economics and Sciences	03/06/2024	24/05/2024	Annually	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service	06/08/2024	06/08/2024	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Regional NSW	26/08/2024	26/08/2024	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Regional NSW	26/08/2024	26/08/2024	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Regional NSW	26/08/2024	26/08/2024	Monthly	1000m	6	6	8
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Housing and Infrastructure	13/09/2024	08/09/2023	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Housing and Infrastructure	13/09/2024	30/08/2024	Monthly	1000m	1	2	3
Commonwealth Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	20/10/2023	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	20/10/2023	13/04/2022	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	29/07/2024	05/07/2024	Quarterly	1000m	0	0	0
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Housing and Infrastructure	13/09/2024	30/08/2024	Monthly	1000m	0	0	0
Bush Fire Prone Land	NSW Rural Fire Service	26/08/2024	19/07/2024	Monthly	1000m	1	2	4
NSW Native Vegetation Type Map	NSW Department of Climate Change, Energy, the Environment and Water	02/09/2024	30/11/2023	Quarterly	1000m	1	1	5
Ramsar Wetlands of Australia	Australian Department of Climate Change, Energy, the Environment and Water	16/05/2024	11/04/2024	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Terrestrial	Australian Department of Climate Change, Energy, The Environment and Water	04/03/2024	30/06/2022	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Marine	Australian Department of Climate Change, Energy, The Environment and Water	04/03/2024	30/06/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	28/05/2024	28/05/2024	Annually	1000m	0	0	1
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/05/2024	28/05/2024	Annually	1000m	0	0	3
NSW BioNet Species Sightings	NSW Department of Climate Change, Energy, the Environment and Water	10/09/2024	10/09/2024	Monthly	10000m	-	-	-

Site Diagram

Moore Creek Road, Moore Creek, NSW 2340

Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 335366m²

Total Perimeter: 2.34km

Disclaimers:

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

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

Scale: 0 25 50 100 150 200 Meters

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

Coordinate System: GDA 1994 MGA Zone 56

Date: 25 September 2024

Contaminated Land

Moore Creek Road, Moore Creek, NSW 2340

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

Contaminated Land

Moore Creek Road, Moore Creek, NSW 2340

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

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

Contaminated Land

Moore Creek Road, Moore Creek, NSW 2340

EPA Notices

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

Map ID	Number	Type	Name	Address	Status	Issued Date	Act	Offence	Offence Date	Loc Conf	Dist	Dir
N/A												

NSW EPA Notice Data Source: Environment Protection Authority

Waste Management & Liquid Fuel Facilities

Moore Creek Road, Moore Creek, NSW 2340

National Waste Management Facilities Database

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

Map ID	Owner	Name	Address	Management Type	Facility Type	Status	Loc Conf	Dist	Dir
N/A	No records in buffer								

Source: Waste Management Facilities Database

National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

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

National Liquid Fuel Facilities Data Source: Geoscience Australia

PFAS Investigation & Management Programs

Moore Creek Road, Moore Creek, NSW 2340

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

Defence PFAS Investigation Program

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

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

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

Defence PFAS Management Program

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

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

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

Airservices Australia National PFAS Management Program

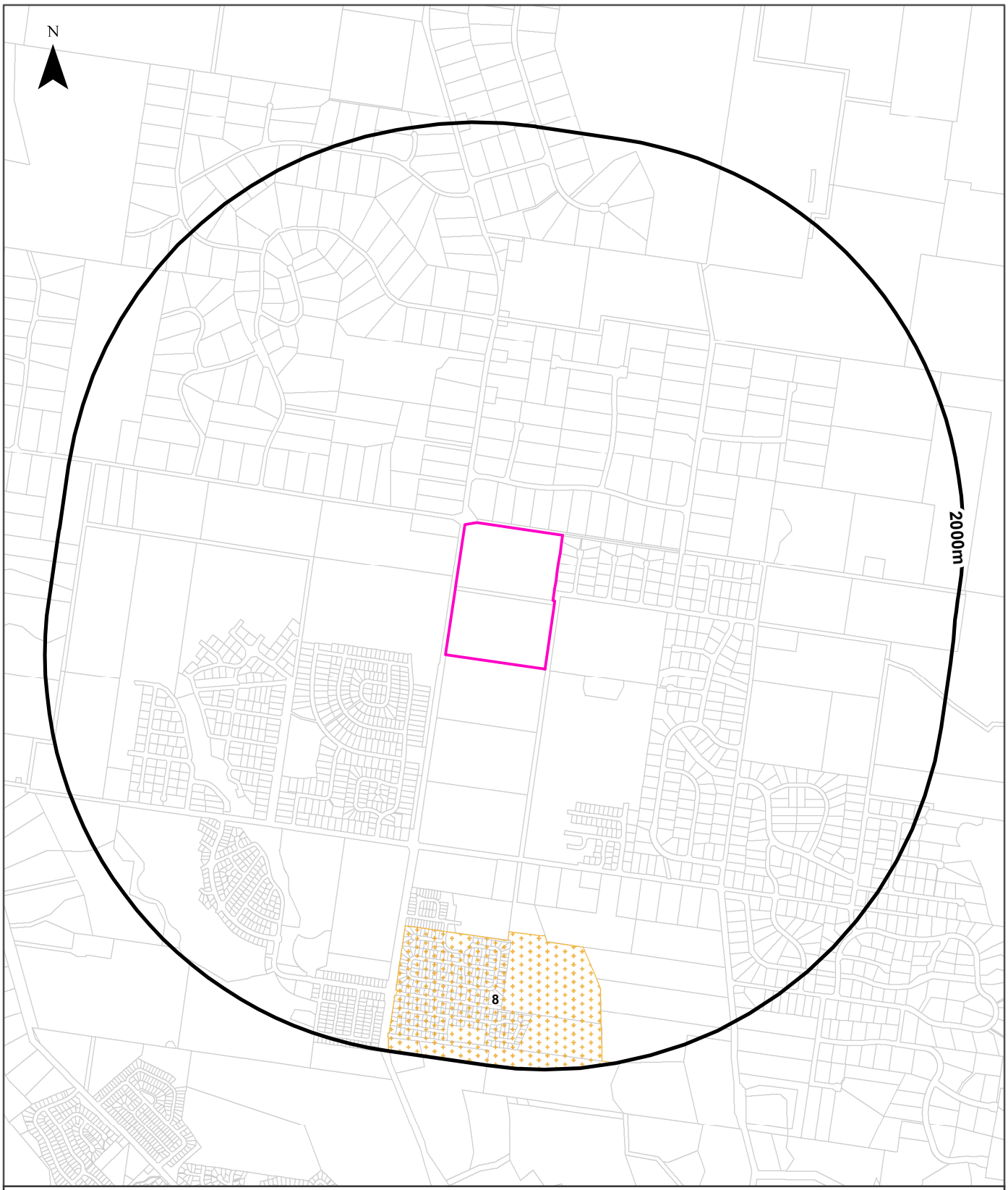
Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

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

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites and Unexploded Ordnance

Moore Creek Road, Moore Creek, NSW 2340



Legend

- Site Boundary
- Buffer 2000m
- Property Boundaries

DCA

- Defence Controlled Area

Defence 3 Year RCIP

- Known Contamination
- No Known Contamination

UXO

- Substantial Potential
- Slight Potential
- Remote Potential
- Sea Dumping of Depth Charges
- Information
- Other
- Other Sea Dumping Sites

Scale:	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2024	Coordinate System: GDA 1994 MGA Zone 56	Date: 25 September 2024

0 200 400 800 1,200 Meters

Defence Sites and Unexploded Ordnance

Moore Creek Road, Moore Creek, NSW 2340

Defence Controlled Areas (DCA)

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

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

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

Defence 3 Year Regional Contamination Investigation Program (RCIP)

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

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

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

National Unexploded Ordnance (UXO)

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

Site ID	Location Name	Category	Area Description	Additional Information	Commonwealth	Loc Conf	Dist	Dir
8	Tamworth	Slight Potential	This site was used as a Grenade Range during WWII.		Not Commonwealth Land	As Supplied	1324m	South

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

EPA Other Sites with Contamination Issues

Moore Creek Road, Moore Creek, NSW 2340

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 Activities

Moore Creek Road, Moore Creek, NSW 2340

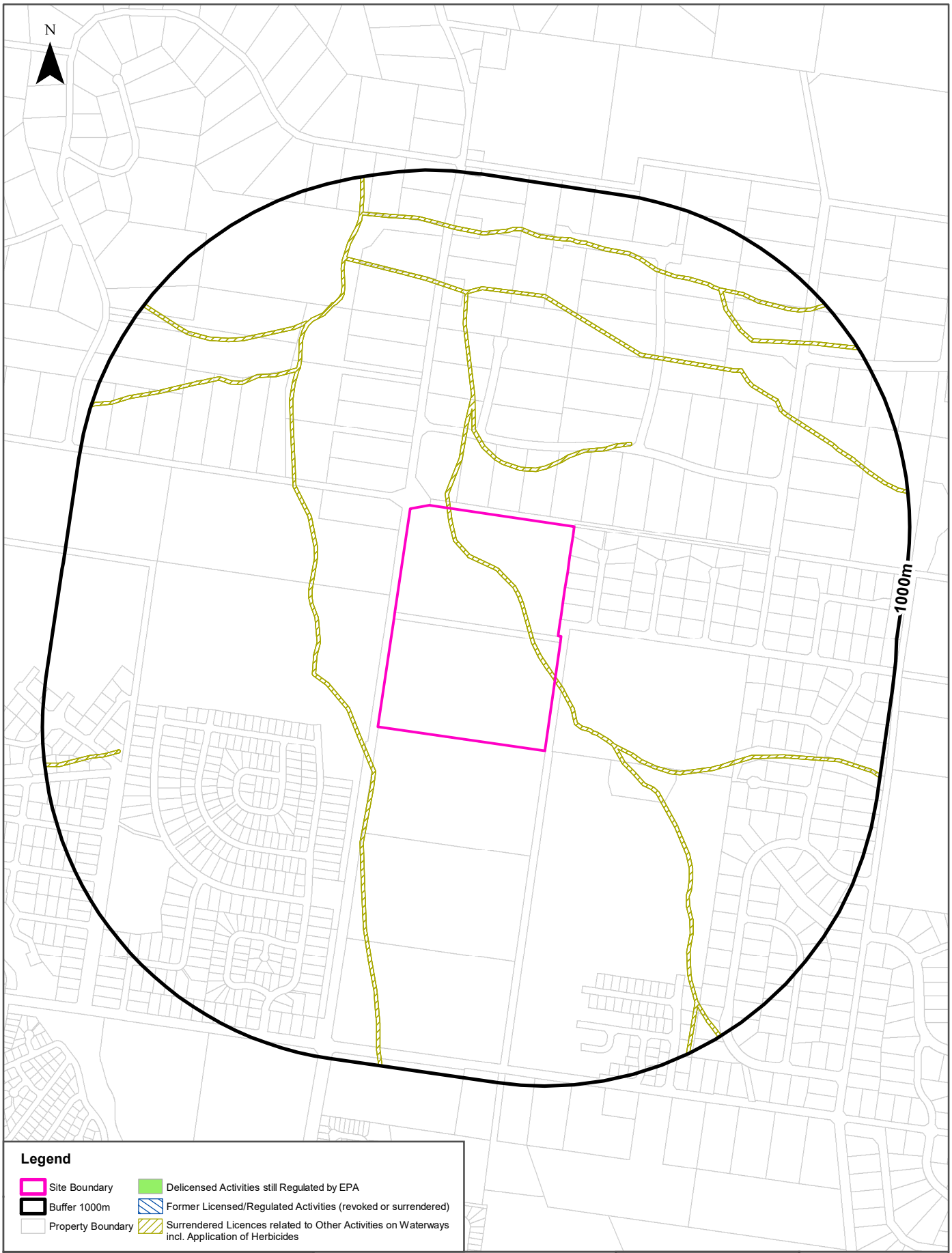
Licensed Activities under the POEO Act 1997

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

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

Delicensed & Former Licensed EPA Activities

Moore Creek Road, Moore Creek, NSW 2340



Property Boundary Data Source:
© Department Finance, Services & Innovation 2024

Coordinate System:
GDA 1994 MGA Zone 56

Date: 25 September 2024

EPA Activities

Moore Creek Road, Moore Creek, NSW 2340

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

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

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

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

Former Licensed Activities Data Source: Environment Protection Authority

Historical Business Directories

Moore Creek Road, Moore Creek, NSW 2340

Business Directory Records 1950-1991
Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directories 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
N/A	No records in buffer						

Business Directory Records 1950-1991
Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directories 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
N/A	No records in buffer					

Historical Business Directories

Moore Creek Road, Moore Creek, NSW 2340

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						

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					

Aerial Imagery 2023

Moore Creek Road, Moore Creek, NSW 2340

Scale:
0 60 120 180 240
Meters

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

Coordinate System:
GDA 1994 MGA Zone 56

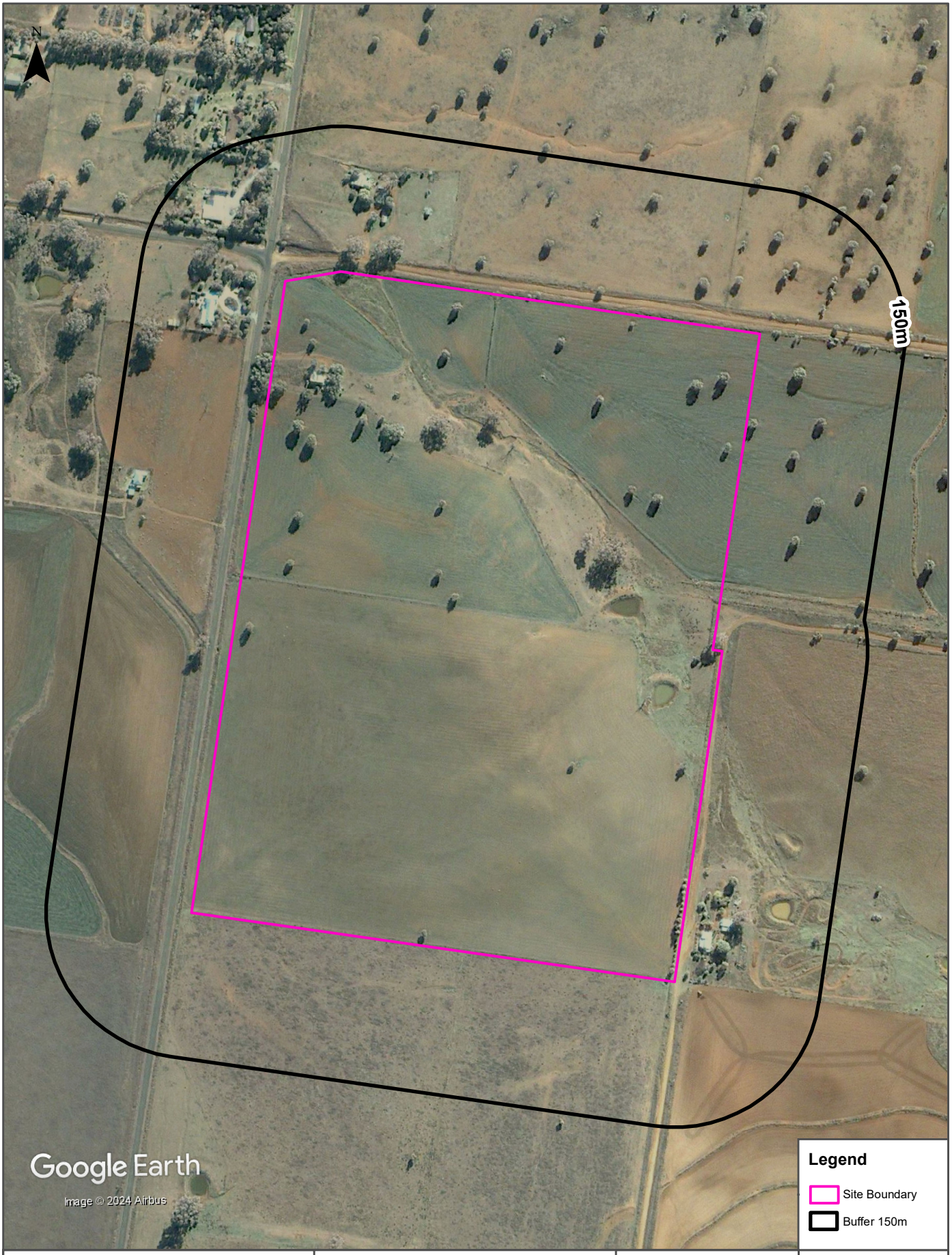
Date: 25 September 2024

Aerial Imagery 2013

Moore Creek Road, Moore Creek, NSW 2340

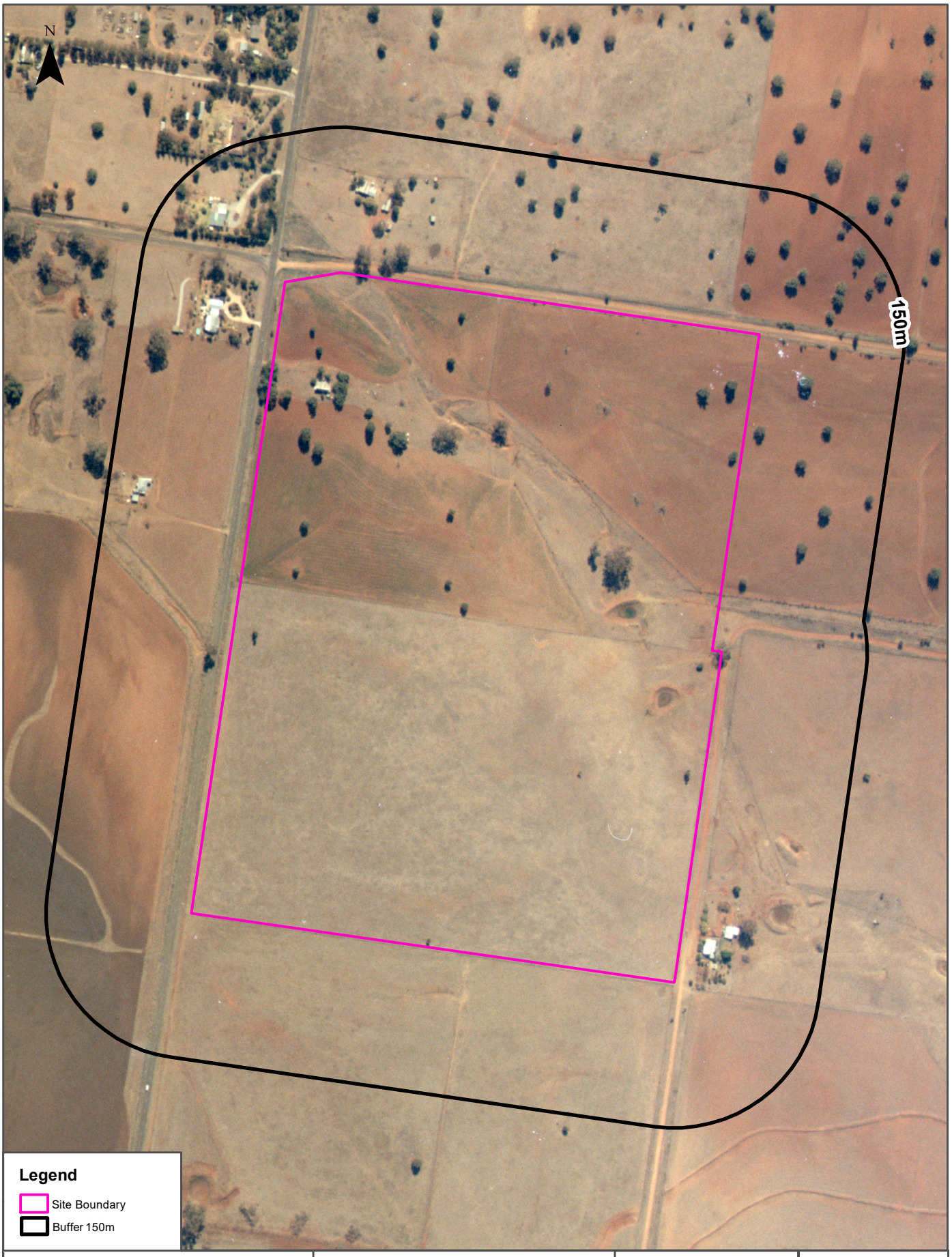
Aerial Imagery 2003

Moore Creek Road, Moore Creek, NSW 2340



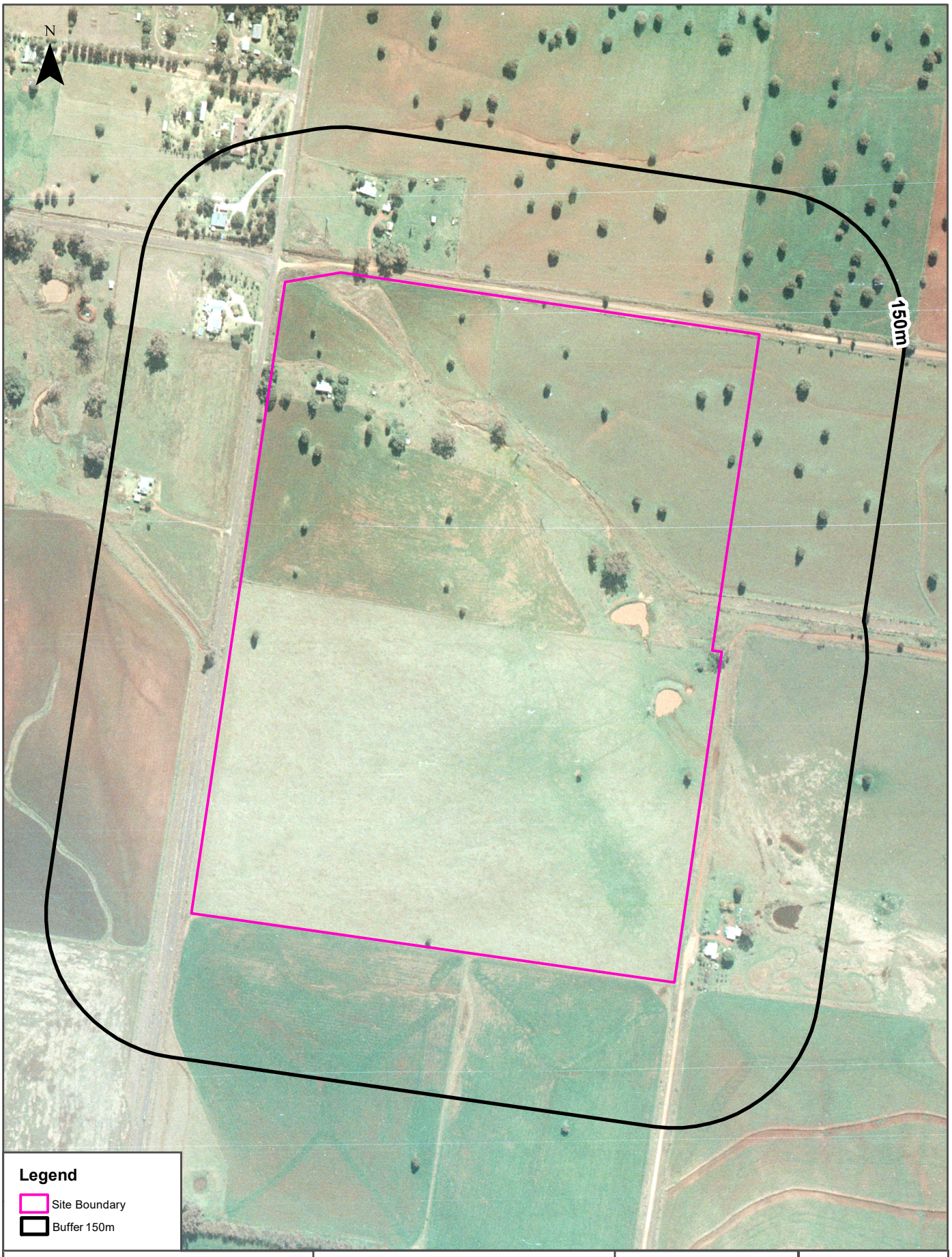
Aerial Imagery 1994

Moore Creek Road, Moore Creek, NSW 2340



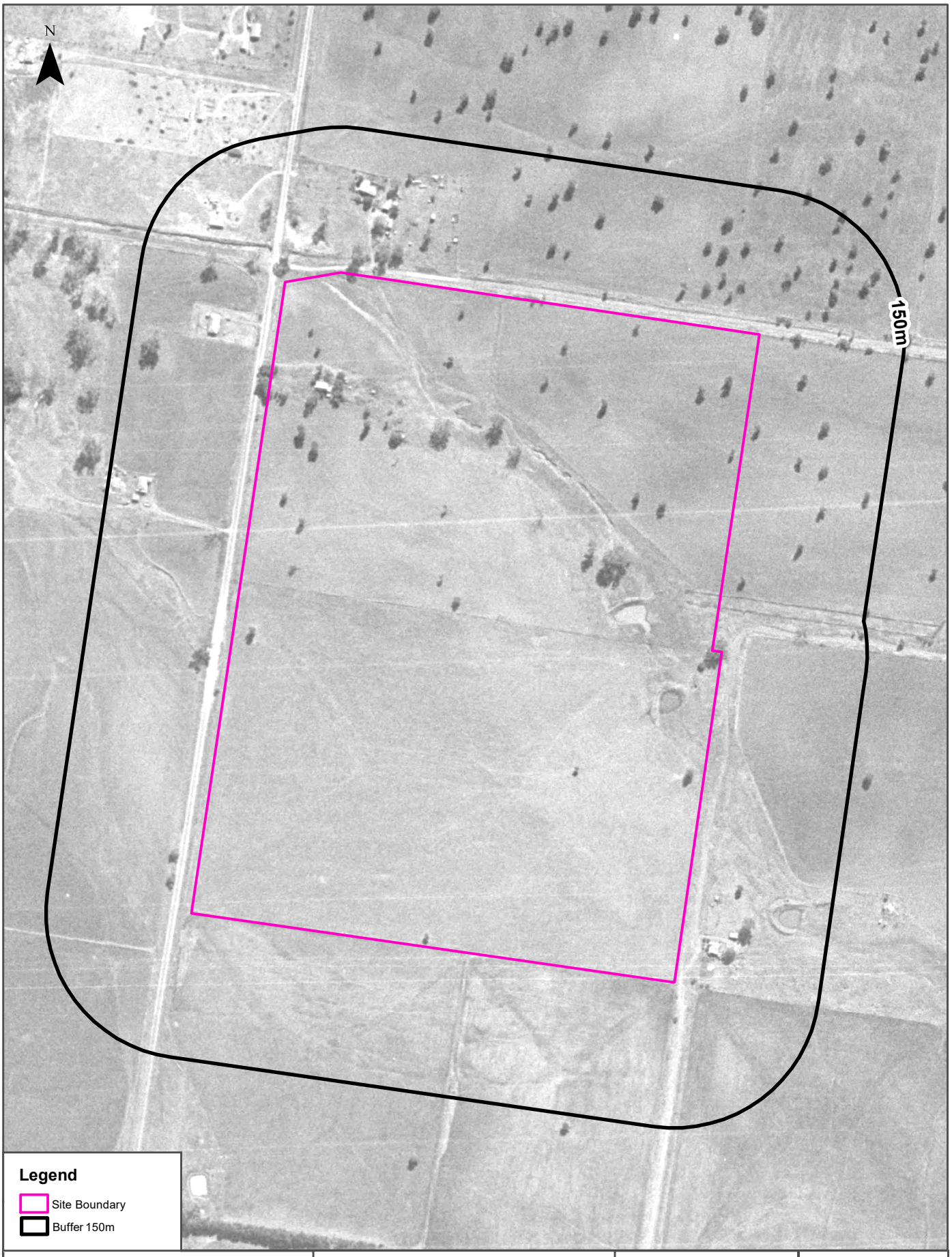
Aerial Imagery 1989

Moore Creek Road, Moore Creek, NSW 2340



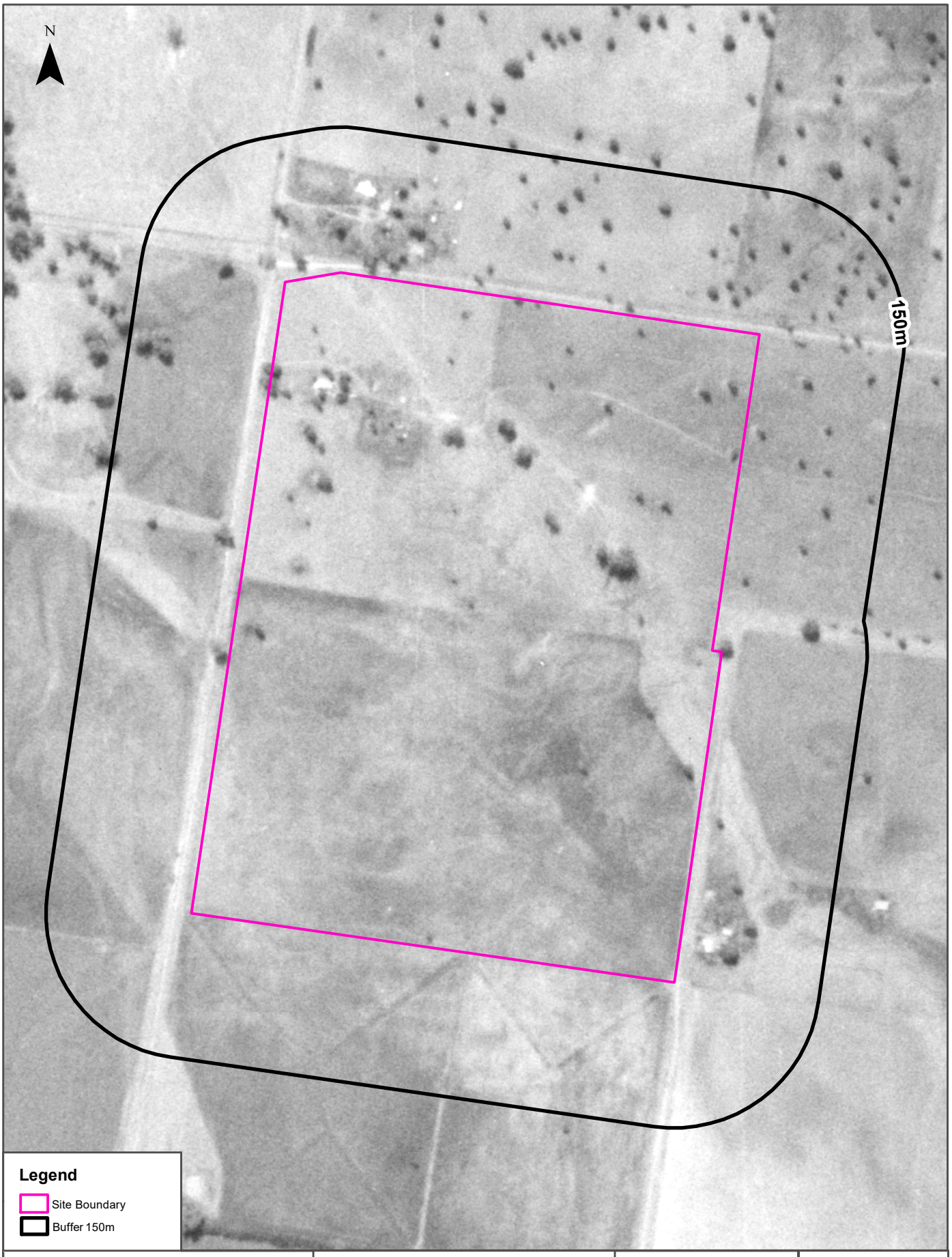
Aerial Imagery 1976

Moore Creek Road, Moore Creek, NSW 2340



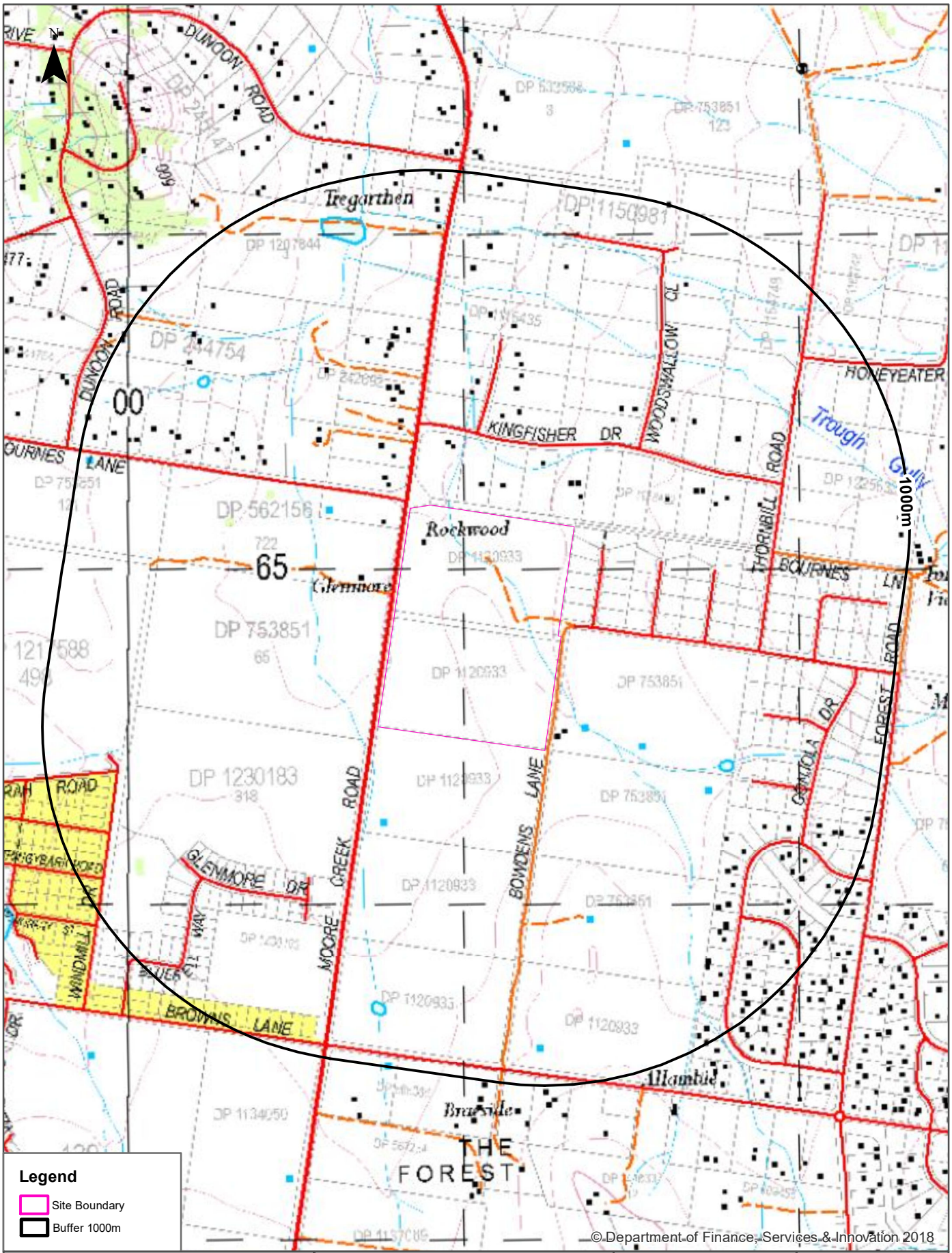
Aerial Imagery 1964

Moore Creek Road, Moore Creek, NSW 2340



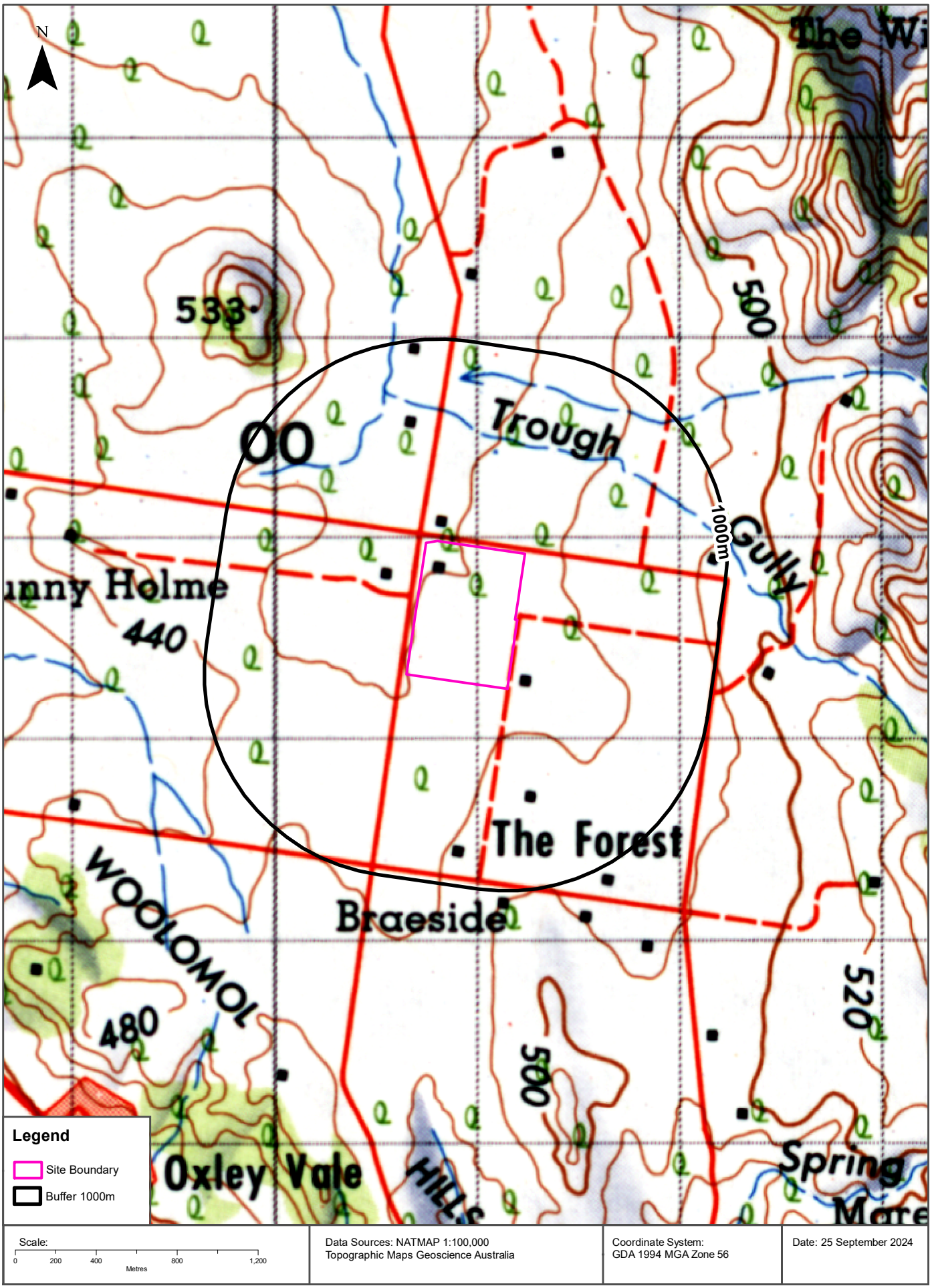
Topographic Map 2015

Moore Creek Road, Moore Creek, NSW 2340



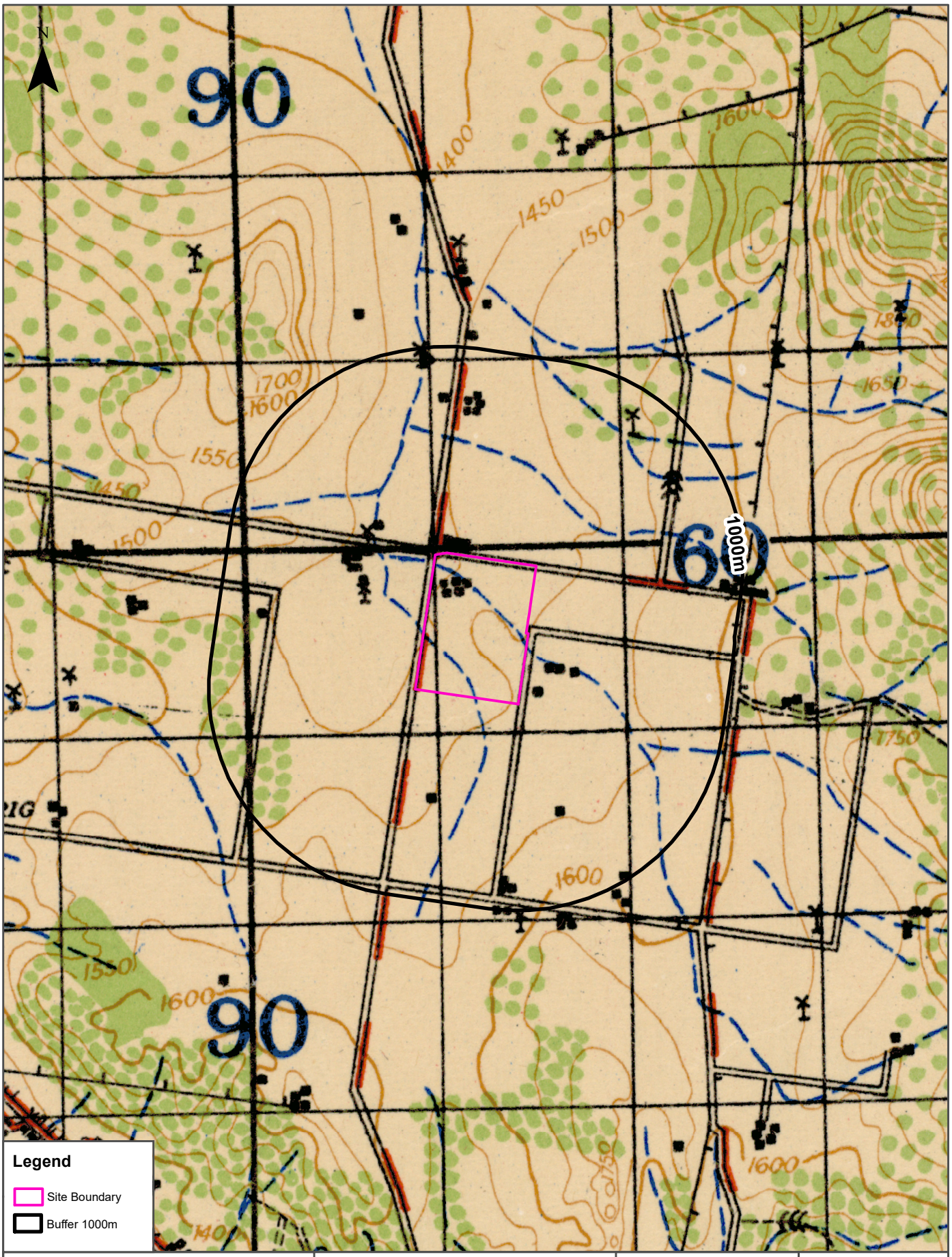
Historical Map 1975

Moore Creek Road, Moore Creek, NSW 2340



Historical Map c.1942

Moore Creek Road, Moore Creek, NSW 2340



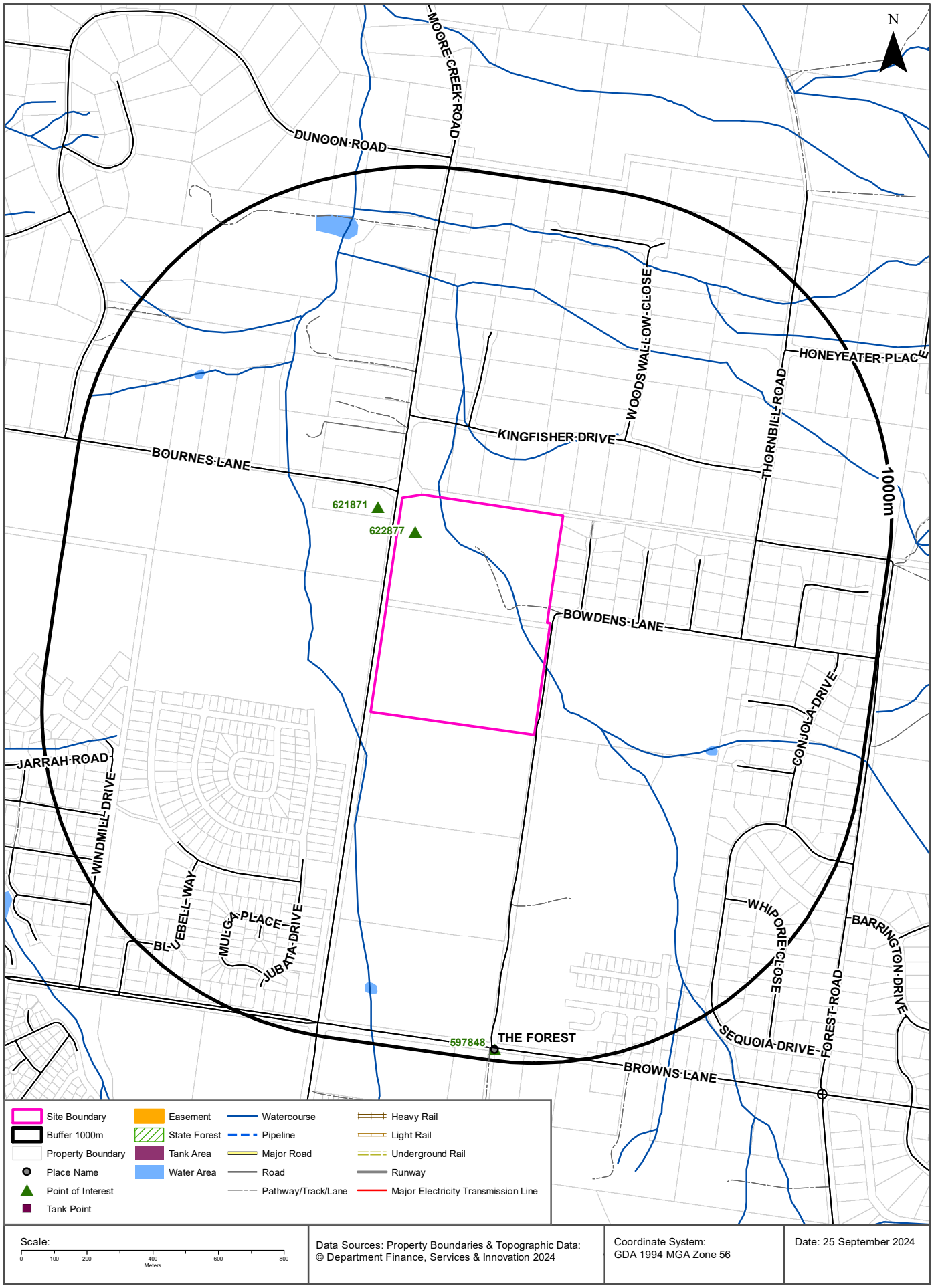
Data Sources: Australia 1:63360
Produced by Australian Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 56

Date: 25 September 2024

Topographic Features

Moore Creek Road, Moore Creek, NSW 2340



Topographic Features

Moore Creek Road, Moore Creek, NSW 2340

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
622877	Homestead	ROCKWOOD	0m	On-site
621871	Homestead	GLENMORE	69m	North West
597848	Rural Place	THE FOREST	965m	South

Topographic Features

Moore Creek Road, Moore Creek, NSW 2340

Tanks (Areas)

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

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

Tanks (Points)

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

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

Major Easements

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

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

Topographic Features

Moore Creek Road, Moore Creek, NSW 2340

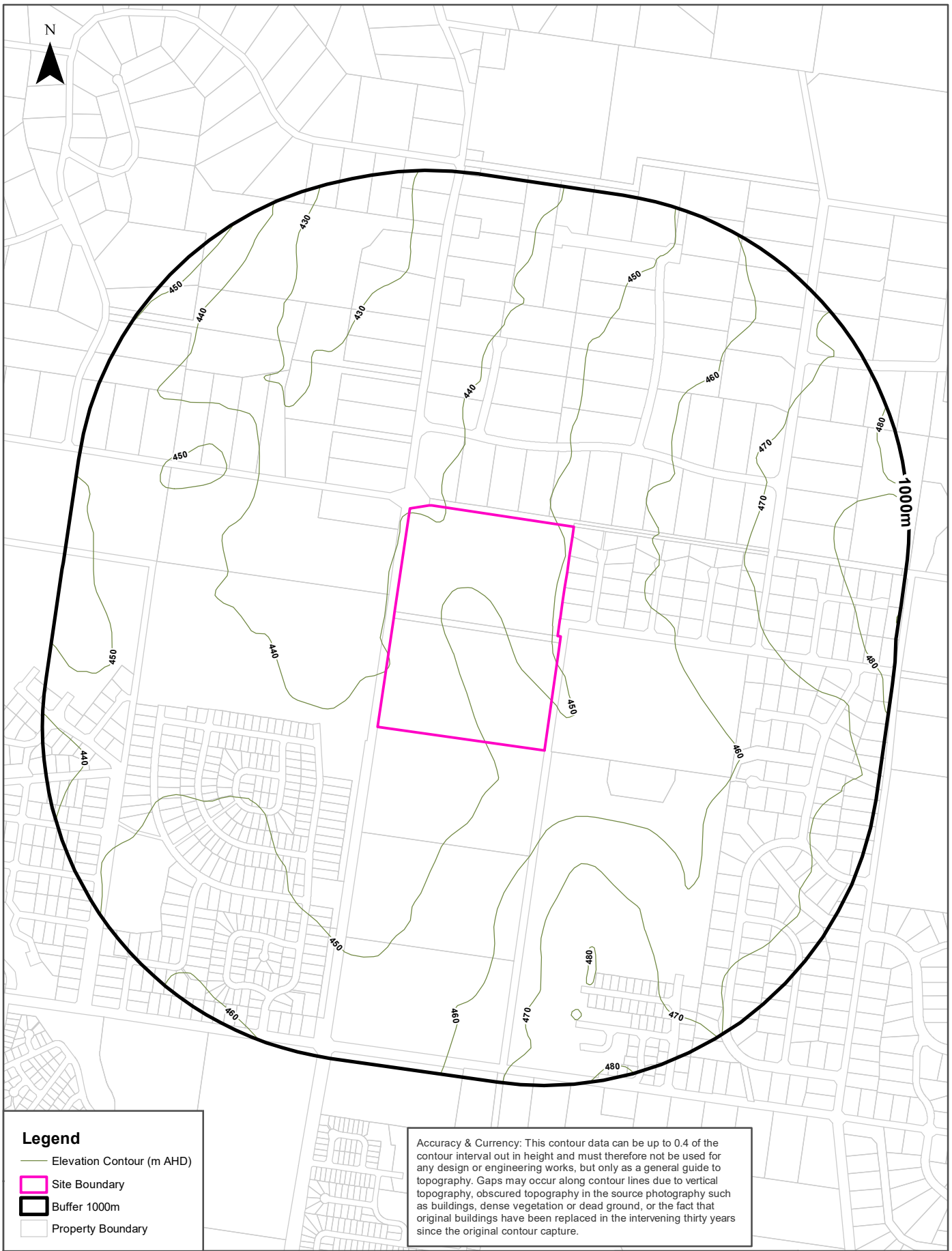
State Forest

What State Forest exist within the dataset buffer?

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

Elevation Contours (m AHD)

Moore Creek Road, Moore Creek, NSW 2340



Hydrogeology & Groundwater

Moore Creek Road, Moore Creek, NSW 2340

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	617m	South West

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

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

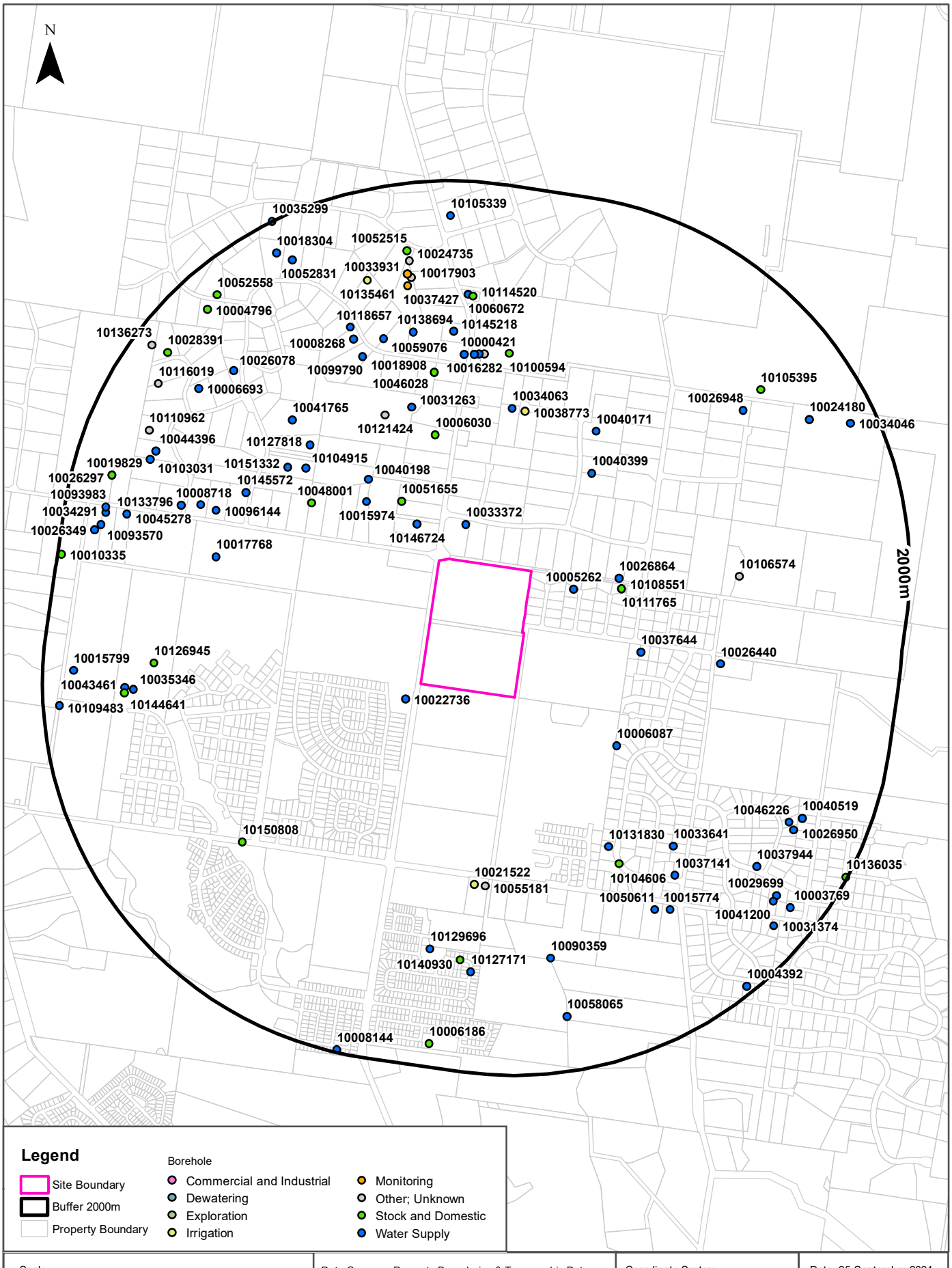
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

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

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

Groundwater Boreholes

Moore Creek Road, Moore Creek, NSW 2340



Legend

Site Boundary
Buffer 2000m
Property Boundary

Borehole

- Commercial and Industrial
- Dewatering
- Exploration
- Irrigation
- Monitoring
- Other; Unknown
- Stock and Domestic
- Water Supply

Scale: 0 100 200 400 600 800 1,000 1,200 1,400 Meters

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

Coordinate System: GDA 1994 MGA Zone 56

Date: 25 September 2024

Hydrogeology & Groundwater

Moore Creek Road, Moore Creek, NSW 2340

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
10022736	GW044946	Water Supply	Unknown	01/04/1976	27.00		AHD				113m	South West
10033372	GW966766	Water Supply	Unknown	01/08/2004	48.00		AHD			40.00	192m	North
10146724	GW054357	Water Supply	Unknown	01/05/1981	55.80		AHD				223m	North West
10005262	GW903632	Water Supply	Functioning	21/02/2020	90.00		AHD				236m	East
10051655	GW034694	Stock and Domestic	Unknown	01/09/1971	41.10		AHD				370m	North West
10026864	GW970725	Water Supply	Functioning	23/12/2013	71.50		AHD	Potable	1.000	24.00	467m	East
10108551	GW971658	Stock and Domestic	Unknown	22/08/2017	50.60		AHD			0.00	487m	East
10111765	GW971658	Stock and Domestic	Unknown	22/08/2017	50.60		AHD			0.00	487m	East
10015974	GW051676	Water Supply	Unknown	01/06/1980	34.70		AHD	1001-3000 ppm			492m	North West
10040198	GW902253	Water Supply	Unknown	08/01/1995	44.20		AHD		1.900	29.30	567m	North West
10006087	GW903882	Water Supply	Functioning	09/05/2020	96.00		AHD				598m	South East
10040399	GW966909	Water Supply	Unknown		43.13		AHD			9.68	608m	North East
10037644	GW971306	Water Supply	Functioning	20/01/2015	36.50		AHD		1.000	5.40	626m	East
10006030	GW903712	Stock and Domestic	Functioning	25/03/2020	48.00		AHD				659m	North
10048001	GW034693	Stock and Domestic	Unknown	01/01/1965	36.50		AHD				739m	North West
10040171	GW970619	Water Supply	Functioning	10/08/2013	37.00		AHD	Potable	0.250	12.00	813m	North East
10121424	GW971533	Unknown	Unknown				AHD				820m	North West
10031263	GW971158	Water Supply	Functioning	14/10/2014	36.50		AHD		2.520	25.90	823m	North
10038773	GW901463	Irrigation	Unknown	29/06/1998	79.00		AHD	Good			830m	North
10034063	GW901148	Water Supply	Unknown	06/01/1998	59.40		AHD		0.620	22.80	834m	North
10104915	GW046668	Water Supply	Unknown	01/10/1977	28.30		AHD				856m	North West
10127818	GW055336	Water Supply	Unknown	01/05/1981	46.90		AHD				915m	North West
10131830	GW049585	Water Supply	Unknown	01/07/1979	91.40		AHD				935m	South East
10151332	GW052676	Water Supply	Unknown	01/05/1981	40.80		AHD				938m	North West
10018908	GW070002	Water Supply	Unknown	01/01/1940	30.00		AHD				988m	North
10046028	GW034692	Stock and Domestic	Unknown		36.50		AHD				988m	North
10021522	GW053386	Irrigation	Unknown	01/11/1981	84.10		AHD	1001-3000 ppm			1010m	South
10055181	GW068726	Unknown	Unknown	10/09/1990	100.00		AHD				1011m	South
10104606	GW003366	Stock and Domestic	Unknown	01/10/1935	98.50		AHD				1041m	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
10026440	GW902233	Water Supply	Unknown	21/10/1991	30.00		AHD		2.500	21.00	1054m	East
10041765	GW901233	Water Supply	Unknown	12/07/1995	91.40		AHD		0.150		1074m	North West
10145572	GW054004	Water Supply	Unknown	01/03/1980	34.70		AHD				1081m	North West
10093244	GW070422	Water Supply	Unknown	09/02/1993	69.40	430.00	AHD	Good			1083m	North
10016282	GW058085	Water Supply	Unknown	01/09/1982	68.50		AHD				1089m	North
10000421	GW046758	Water Supply	Unknown	01/10/1977	8.20		AHD				1093m	North
10051159	GW055102	Unknown	Functioning		61.60		AHD	Domestic			1097m	North
10106574	GW003374	Unknown	Unknown	01/10/1935	33.50		AHD	Good			1100m	East
10100594	GW003382	Stock and Domestic	Unknown	01/12/1935	61.00		AHD				1119m	North
10099790	GW052251	Water Supply	Unknown	01/01/1981	62.20		AHD				1152m	North West
10033641	GW971293	Water Supply	Functioning	18/11/2014	54.80		AHD		1.260	11.20	1153m	South East
10017768	GW052372	Water Supply	Unknown	01/03/1981	65.20		AHD				1167m	West
10145218	GW050818	Water Supply	Unknown	01/10/1979	12.20		AHD				1202m	North
10096144	GW044318	Water Supply	Unknown	01/07/1975	37.20		AHD	501-1000 ppm			1206m	North West
10059076	GW050873	Water Supply	Unknown	01/04/1980	40.80		AHD				1210m	North
10138694	GW051780	Water Supply	Unknown	01/12/1980	43.90		AHD				1213m	North
10008268	GW051346	Water Supply	Unknown	01/11/1980	41.50		AHD				1255m	North West
10150808	GW027993	Stock and Domestic	Unknown	01/07/1967	73.90		AHD				1259m	South West
10037141	GW968682	Water Supply	Functioning	03/12/2007	81.70		AHD	Potable	0.880	18.30	1268m	South East
10008718	GW060793	Water Supply	Unknown	01/05/1985	97.50		AHD				1290m	North West
10118657	GW971544	Water Supply	Functioning	20/12/2015	107.00		AHD				1318m	North West
10050611	GW048337	Water Supply	Unknown	01/07/1978	85.80		AHD				1349m	South East
10129696	GW056859	Water Supply	Unknown	01/04/1982	83.50		AHD				1383m	South
10015774	GW033812	Water Supply	Unknown	01/12/1970	51.20		AHD				1393m	South East
10133796	GW065107	Water Supply	Unknown	22/08/1989	79.00		AHD				1394m	West
10090359	GW061350	Water Supply	Unknown	01/11/1985	116.00		AHD				1395m	South
10114520	GW003388	Stock and Domestic	Non-functional		44.50		AHD	Good			1395m	North
10060672	GW070708	Water Supply	Unknown	01/01/1955	39.62		AHD	Good		22.25	1401m	North
10026948	GW971157	Water Supply	Functioning	15/09/2014	53.60		AHD		0.450	28.30	1406m	North East
10126945	GW044685	Stock and Domestic	Unknown		42.70		AHD				1414m	West
10140930	GW024482	Stock and Domestic	Unknown	01/07/1965	57.30		AHD	Stock			1418m	South
10037427	GW902254	Monitoring	Proposed	24/06/1993	25.90		AHD				1461m	North
10127171	GW056860	Water Supply	Unknown	01/04/1982	83.50		AHD				1470m	South
10026078	GW068057	Water Supply	Unknown	14/06/1989	83.80		AHD		0.310	42.60	1479m	North West
10017903	GW071125	Unknown	Unknown	16/06/1993		417.00	AHD				1500m	North
10035346	GW968154	Water Supply	Functioning	16/12/2006	48.80		AHD		0.220	21.00	1516m	West

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10033931	GW902255	Monitoring	Proposed	23/06/1993	27.10		AHD				1522m	North
10122308	GW070747	Monitoring	Proposed	23/06/1993	27.10		AHD				1522m	North
10135461	GW047568	Irrigation	Unknown	01/08/1980	40.80		AHD				1528m	North
10105395	GW003375	Stock and Domestic	Unknown	01/11/1935	27.10		AHD	Good			1546m	North East
10006693	GW058765	Water Supply	Unknown	01/06/1982	53.00		AHD				1561m	North West
10043461	GW968126	Water Supply	Functioning	19/12/2006	48.80		AHD		0.220	21.00	1563m	West
10037944	GW971276	Water Supply	Functioning	19/11/2014	11.90		AHD		0.190	5.70	1564m	South East
10144641	GW035807	Stock and Domestic	Non-functional	01/05/1973	42.70		AHD				1566m	West
10024735	GW071126	Unknown	Unknown	23/06/1993		417.00	AHD				1589m	North
10046226	GW969638	Water Supply	Functioning	08/10/2008	54.80		AHD		0.030	37.20	1596m	South East
10044396	GW902134	Water Supply	Unknown	15/02/1995	79.20		AHD				1603m	North West
10103031	GW063794	Water Supply	Non-functional	01/02/1982	83.00		AHD				1617m	North West
10026950	GW971208	Water Supply	Functioning	15/07/2014	42.60		AHD		0.840	34.40	1634m	South East
10052515	GW034690	Stock and Domestic	Unknown	01/01/1955			AHD				1644m	North
10040519	GW969548	Water Supply	Functioning	10/06/2010			AHD				1652m	South East
10045278	GW967072	Water Supply	Unknown	07/04/2005	115.80		AHD		0.180	38.30	1667m	West
10024180	GW967058	Water Supply	Unknown	24/05/2005	99.00		AHD		0.125	38.00	1675m	North East
10110962	GW064438	Unknown	Unknown	01/02/1982	43.00		AHD				1677m	North West
10058065	GW071512	Water Supply	Unknown	24/11/1993	109.70		AHD				1711m	South
10029699	GW968160	Water Supply	Functioning	01/04/2007	48.78		AHD		0.900	28.90	1738m	South East
10041200	GW971315	Water Supply	Functioning	02/02/2015	39.60		AHD		1.260	25.60	1743m	South East
10116019	GW064439	Unknown	Unknown	01/02/1982	34.80		AHD				1752m	North West
10052831	GW967610	Water Supply	Unknown		25.00		AHD				1769m	North West
10034291	GW055743	Water Supply	Unknown	01/09/1981	64.00		AHD				1778m	West
10093983	GW071518	Water Supply	Unknown	05/01/1994	106.80		AHD				1783m	West
10019829	GW058766	Water Supply	Abandoned	01/06/1982	84.10		AHD				1785m	North West
10026297	GW062889	Stock and Domestic	Unknown	01/06/1987	76.20		AHD				1785m	North West
10093570	GW056115	Water Supply	Unknown	01/02/1982	59.00		AHD				1794m	West
10004796	GW904089	Stock and Domestic	Unknown	19/07/2019	61.00		AHD				1806m	North West
10028391	GW966708	Stock and Domestic	Unknown		63.00		AHD			33.00	1807m	North West
10105339	GW904011	Water Supply	Functioning	09/05/2018	15.20		AHD				1814m	North
10026349	GW071618	Water Supply	Unknown	09/02/1994	99.00		AHD				1825m	West
10031374	GW901086	Water Supply	Unknown	03/04/1990	48.70		AHD		0.750	28.00	1829m	South East
10052558	GW034691	Stock and Domestic	Unknown	01/01/1920	91.40		AHD				1829m	North West
10003769	GW014214	Water Supply	Unknown		45.70		AHD	Fair			1834m	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
10015799	GW050830	Water Supply	Unknown	01/05/1979	28.70		AHD				1834m	West
10018304	GW066931	Water Supply	Functioning	04/12/1991	48.80	455.00	AHD		0.900	25.30	1838m	North West
10034046	GW968806	Water Supply	Functioning	24/05/2005	99.00		AHD	642.56	0.250	38.00	1859m	North East
10006186	GW903960	Stock and Domestic	Functioning	28/11/2018	103.00		AHD				1879m	South
10136273	GW067520	Unknown	Unknown	18/07/1991	68.00		AHD				1896m	North West
10109483	GW035225	Water Supply	Unknown	01/11/1972	31.30		AHD				1913m	West
10004392	GW903696	Water Supply	Unknown	10/01/2020	90.00		AHD				1961m	South East
10010335	GW024536	Stock and Domestic	Functioning	01/01/1965	15.20		AHD		1.000		1978m	West
10008144	GW005612	Water Supply	Unknown	01/10/1928	50.30		AHD				1987m	South
10136035	GW069163	Stock and Domestic	Unknown	28/02/1991	64.00		AHD				1995m	South East
10035299	GW901702	Water Supply	Unknown	20/12/1990	45.00		AHD				1998m	North West

Hydrogeology & Groundwater

Moore Creek Road, Moore Creek, NSW 2340

Driller's Logs

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

NGIS Bore ID	Drillers Log	Distance	Direction
10022736	0.00m-1.00m Topsoil Red 1.00m-3.00m Clay 3.00m-15.00m Shale Clay 15.00m-27.00m Rock Black Basalt Water Supply	113m	South West
10033372	0.00m-21.00m clay, gravel and rocks 21.00m-26.00m clay gravel and rocks 26.00m-42.00m shale 42.00m-44.00m shale 44.00m-48.00m shale	192m	North
10146724	0.00m-1.52m Soil 1.52m-2.44m Boulders 2.44m-4.27m Silt 4.27m-12.80m Gravel Dry 12.80m-33.53m Limestone Yellow Hard Bands Moist 33.53m-35.05m Limestone Sandy 35.05m-36.58m Limestone Yellow 36.58m-46.94m Limestone 46.94m-54.86m Shale Weathered Seams Water Supply 54.86m-55.78m Basalt	223m	North West
10051655	0.00m-1.52m Clay Red Soft 1.52m-25.90m Clay Hard 25.90m-40.53m Rock Black Basaltic Fractured Water Supply 40.53m-41.14m Basalt	370m	North West
10026864	0.00m-3.00m Clay; red 3.00m-6.00m Basalt; broken 6.00m-12.00m Clay; red 12.00m-20.00m Clay; broken, basalt 20.00m-30.00m Gravel 30.00m-50.00m Gravel, & Clay 50.00m-55.00m Basalt; broken 55.00m-71.50m Shale	467m	East
10015974	0.00m-0.91m Topsoil 0.91m-1.22m Shale Soft 1.22m-2.44m Shale 2.44m-28.65m Shale 28.65m-31.70m Basalt 31.70m-32.31m Basalt Broken Water Supply 32.31m-34.75m Basalt Water Supply	492m	North West
10040198	0.00m-0.60m topsoil 0.60m-4.20m red clay 4.20m-38.00m brown shale 38.00m-38.30m water bearing brown shale 38.30m-41.00m shale 41.00m-41.30m water bearing brown shale 41.30m-42.50m shale 42.50m-44.20m basalt	567m	North West
10037644	0.00m-3.30m Shale, & Clay 3.30m-5.40m Shale; brown 5.40m-22.20m Clay, & Gravel 22.20m-24.30m Shale; brown 24.30m-24.60m Shale; seepage 24.60m-32.00m Shale; brown 32.00m-33.00m Shale; water bearing 33.00m-36.50m Shale; brown	626m	East
10048001	0.00m-18.28m Clay 18.28m-33.52m Shale 33.52m-36.57m Gravel Rock	739m	North West
10040171	0.00m-1.00m Clay; red 1.00m-15.00m Clay; red & Shale seams 15.00m-17.00m Shale; grey 17.00m-20.00m Clay; brown & Shale 20.00m-25.00m Shale; broken, soft 25.00m-30.00m Shale; brown & Clay 30.00m-34.00m Gravel 34.00m-37.00m Shale; brown & Clay	813m	North East

NGIS Bore ID	Drillers Log	Distance	Direction
10031263	0.00m-0.30m Topsoil 0.30m-9.10m Clay, & brown Shale 9.10m-27.40m Shale; brown 27.40m-33.50m Shale; brown, water bearing 33.50m-36.50m Basalt; blue	823m	North
10038773	0.00m-2.00m topsoil 2.00m-3.00m clay - dark brown 3.00m-5.00m gravel & clay 5.00m-11.00m gravel 11.00m-26.00m clay 26.00m-29.00m gravel 29.00m-30.70m clay 30.70m-37.50m sand & gravel 37.50m-38.00m sandy clay 38.00m-40.70m sand 40.70m-43.50m sandy clay 43.50m-45.50m sand 45.50m-48.00m clay 48.00m-49.50m sand, some clay 49.50m-52.50m sand 52.50m-57.90m clay 57.90m-61.40m sand & gravel 61.40m-63.00m sandy clay 63.00m-64.50m sand & gravel 64.50m-68.00m gritty clay 68.00m-72.00m clay 72.00m-73.00m fine sand 73.00m-77.00m coarse sand 77.00m-81.00m silky clay	830m	North
10034063	0.00m-15.20m top soil 15.20m-19.80m loose claybound gravel 19.80m-24.30m claybound shale 24.30m-45.60m clay 45.60m-50.10m claybound shale 50.10m-55.00m clay 55.00m-56.20m shale (water) 56.20m-59.40m solid shale ridge	834m	North
10104915	0.00m-1.22m Soil 1.22m-5.49m Clay Red 5.49m-7.32m Gravel Silt 5.49m-7.32m Clay 7.32m-8.84m Clay Red Stones 8.84m-11.58m Shale 11.58m-14.63m Slate 14.63m-16.15m Shale 16.15m-21.64m Slate Very Hard 21.64m-22.25m Basalt Broken 22.25m-27.74m Basalt Grey Water Supply 27.74m-28.04m Basalt Broken Water Supply 28.04m-28.35m Basalt Very Hard Water Supply	856m	North West
10127818	0.00m-0.61m Topsoil 0.61m-4.88m Clay Red 4.88m-28.65m Shale Hard Bands 28.65m-46.94m Basalt Orange Water Supply 28.65m-46.94m Slate Seams	915m	North West
10131830	0.00m-1.00m Topsoil 1.00m-91.40m Clay Ridge	935m	South East
10151332	0.00m-0.91m Topsoil 0.91m-5.18m Clay Red Stones 5.18m-19.81m Shale 19.81m-20.12m Basalt 20.12m-28.65m Shale 28.65m-31.09m Shale Fractured Water Supply 31.09m-33.83m Basalt Black Water Supply 33.83m-40.84m Basalt Grey	938m	North West
10021522	0.00m-2.44m Clay 2.44m-26.82m Shale 26.82m-31.70m Silt Fine 31.70m-39.62m Shale 39.62m-84.12m Basalt Black Water Supply	1010m	South
10055181	0.00m-1.00m RED SOIL 1.00m-3.00m BROWN CLAY 3.00m-27.00m GREY SHALE 27.00m-67.00m BROKEN BASALT 67.00m-90.00m GREY BASALT 90.00m-99.00m SOFT BASALT 99.00m-100.00m GREY BASALT	1011m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10104606	0.00m-6.10m Clay 6.10m-40.23m Clay Coarse Stones 40.23m-71.32m Clay 71.32m-86.87m Clay Broken Limestone 86.87m-93.88m Limestone Decomposed 93.88m-98.45m Sandstone Rotten	1041m	South East
10041765	0.00m-0.30m soil 0.30m-5.20m ridge clay 5.20m-23.50m brown shale 23.50m-83.80m blue basalt 83.80m-84.10m water bearing basalt 84.10m-91.40m basalt	1074m	North West
10145572	0.00m-0.61m Soil 0.61m-5.49m Clay Hard 5.49m-20.12m Shale Slate Bands 20.12m-28.65m Basalt 28.65m-29.87m Basalt Fractured Water Supply 29.87m-34.75m Basalt Black	1081m	North West
10093244	0.00m-1.80m Red Clay 1.80m-34.00m Red Clay & Ridge Gravel 34.00m-41.75m Silt Stone 41.75m-53.64m Decomposed Shale 53.64m-69.40m Shale	1083m	North
10016282	0.00m-0.60m Topsoil 0.60m-52.10m Clay Gravel 52.10m-68.50m Clay Ridge Gravel Water Supply	1089m	North
10000421	0.00m-0.61m Soil 0.61m-3.66m Clay Red Stones 3.66m-4.27m Sand Dirty Gravel 4.27m-7.62m Sand Gravel Water Supply Stones Large 7.62m-8.23m Clay Red Boulder Water Supply	1093m	North
10106574	0.00m-15.24m Stones Loose Gravel 15.24m-26.21m Shale 26.21m-33.53m Rock Water Supply	1100m	East
10100594	0.00m-4.57m Clay Stones 4.57m-10.67m Clay Shale 10.67m-17.37m Shale 17.37m-24.99m Clay Rock 24.99m-31.09m Limestone Shale 31.09m-36.88m Shale Clay 36.88m-53.95m Clay 53.95m-59.44m Shale Soft Gravel Water Supply 59.44m-60.35m Shale Hard 60.35m-60.96m Clay	1119m	North
10099790	0.00m-2.13m Soil Surface, Stones Large 2.13m-16.46m Slate Basalt Seams 16.46m-18.29m Basalt Weathered 18.29m-62.18m Basalt Very Hard	1152m	North West
10033641	0.00m-0.30m Topsoil 0.30m-2.00m Shale; sandy 2.00m-39.60m Shale; brown & Clay 39.60m-50.30m Shale; brown 50.30m-54.80m Shale; water bearing, brown	1153m	South East
10017768	0.00m-0.30m Soil 0.30m-1.22m Clay Stones 1.22m-21.34m Basalt 21.34m-24.99m Basalt 24.99m-27.74m Basalt 27.74m-45.11m Basalt Some Shale Bands 45.11m-46.94m Basalt Some Fractured Small 46.94m-51.82m Basalt 51.82m-52.73m Basalt Green Some Fractured Small 52.73m-59.44m Basalt Green 59.44m-60.35m Shale Grey Water Supply 60.35m-60.96m Basalt 60.96m-65.23m Basalt Green Some Fractured Small	1167m	West
10145218	0.00m-0.30m Soil Surface 0.30m-7.92m Clay Silt 0.30m-7.92m Gravel 7.92m-10.97m Silt Small Gravel 10.97m-11.58m Gravel Small Water Supply 11.58m-29.26m Clay Small Gravel Dry	1202m	North
10096144	0.00m-1.83m Soil 1.83m-5.18m Clay Red 5.18m-15.85m Shale Grey 15.85m-24.99m Basalt 24.99m-37.19m Silica Water Supply	1206m	North West

NGIS Bore ID	Drillers Log	Distance	Direction
10059076	0.00m-0.61m Soil Surface 0.61m-6.10m Clay Silt 6.10m-7.01m Shale Yellow 7.01m-16.46m Shale 7.01m-16.46m Slate Seams 16.46m-28.65m Basalt 28.65m-28.96m Basalt Broken Water Supply 28.96m-32.31m Basalt 32.31m-32.92m Basalt Broken Water Supply 32.92m-39.01m Basalt 39.01m-39.32m Basalt Broken Water Supply 39.32m-40.84m Basalt	1210m	North
10138694	0.00m-0.61m Topsoil 0.61m-3.05m Clay 3.05m-9.14m Clay Silt 9.14m-9.45m Gravel 9.45m-18.90m Shale 18.90m-21.03m Basalt Grey 21.03m-22.25m Basalt Fractured Water Supply 22.25m-43.89m Basalt Grey Water Supply 22.25m-43.89m Shale Black Seams	1213m	North
10008268	0.00m-1.22m Topsoil 1.22m-12.19m Basalt Weathered 12.19m-40.84m Basalt 40.84m-41.45m Basalt Broken Water Supply	1255m	North West
10150808	0.00m-1.83m Topsoil 1.83m-3.96m Clay Red 3.96m-15.24m Clay Rock 15.24m-24.38m Diorite Green 24.38m-73.91m Rock Water Supply	1259m	South West
10037141	0.00m-52.40m Clay, red 52.40m-81.70m Basalt, broken	1268m	South East
10008718	0.00m-0.60m Soil 0.60m-21.30m Clay Ridge 21.30m-33.50m Shale Hard 33.50m-97.50m Shale Water Supply	1290m	North West
10050611	0.00m-0.60m Soil Surface 0.60m-44.10m Clay Ridge Gravel 44.10m-47.10m Shale Soft 47.10m-51.60m Basalt 51.60m-51.90m Basalt Water Bearing Water Supply 51.90m-60.70m Basalt 60.70m-61.00m Basalt Water Bearing Water Supply 61.00m-84.00m Basalt 84.00m-84.30m Basalt Water Bearing Water Supply 84.30m-85.80m Basalt	1349m	South East
10129696	0.00m-1.00m Topsoil Red 1.00m-4.00m Clay Red 4.00m-17.00m Clay Yellow 17.00m-23.00m Shale 23.00m-77.00m Shale Water Supply 77.00m-83.50m Basalt	1383m	South
10015774	0.00m-0.91m Topsoil Red 0.91m-9.14m Clay 9.14m-15.24m Boulders Clay 15.24m-16.76m Boulders 16.76m-49.68m Clay Yellow Shale Rock Volcanic Some Basalt Water Supply 49.68m-51.21m Sandstone	1393m	South East
10090359	0.00m-2.20m Clay Gravel 2.20m-39.60m Rock Fractured Sedimentary 39.60m-42.00m Basalt 42.00m-107.30m Rock Sedimentary Water Supply 107.30m-113.00m Sandstone Water Supply 113.00m-115.50m Sandstone Some Clay Water Supply 115.50m-116.00m Rock Water Supply	1395m	South
10114520	0.00m-12.50m Driller 12.50m-33.83m Stones Loose 33.83m-39.32m Shale 39.32m-44.50m Rock	1395m	North
10026948	0.00m-0.60m Topsoil 0.60m-3.30m Shale & loose rocks 3.30m-41.00m Shale; soft, sandy 41.00m-41.60m Shale; water bearing 41.60m-45.70m Shale; brown 45.70m-46.30m Shale; water bearing 46.30m-51.20m Shale; brown 51.20m-51.50m Shale; water bearing 51.50m-53.60m Shale; brown	1406m	North East

NGIS Bore ID	Drillers Log	Distance	Direction
10140930	0.00m-9.14m Soil Red Clay 9.14m-28.96m Shale Loose 28.96m-32.00m Shale 32.00m-42.67m Shale Hard Dark 42.67m-56.39m Basalt Water Supply 56.39m-57.30m Limestone	1418m	South
10037427	0.00m-0.60m Soil 0.60m-4.90m Ridge Clay 4.90m-7.30m Clay & Gravel 7.30m-11.80m Clay 11.80m-22.80m Shale Brown 22.80m-23.10m shale brown w.b 23.10m-24.30m Shale brown 24.30m-24.60m Shale brown w.b 24.60m-25.90m Basalt blue	1461m	North
10127171	0.00m-1.00m Topsoil Red 1.00m-10.00m Clay Red 10.00m-21.00m Clay Yellow 21.00m-40.00m Shale 40.00m-47.00m Shale 47.00m-74.00m Shale 74.00m-83.50m Shale Some Clay Bands Water Supply	1470m	South
10026078	0.00m-1.20m Soil 1.20m-13.00m shale yellow 13.00m-16.30m Shale hard blue 16.30m-80.50m Basalt blue 80.50m-80.80m Basalt blue w.b 80.80m-83.80m Basalt blue	1479m	North West
10017903	0.00m-0.60m TOPSOIL 0.60m-9.70m RIDGE CLAY 9.70m-23.70m BROWN SHALE 23.70m-24.30m WATER BEARING BROWN SHALE 24.30m-25.60m BLUE BASALT	1500m	North
10035346	0.00m-0.60m Topsoil 0.60m-3.60m Clay 3.60m-17.30m Shale, brown 17.30m-39.50m Basalt 39.50m-39.80m Basalt, water bearing 39.80m-45.80m Basalt 45.80m-46.10m Basalt, water bearing 46.10m-48.80m Basalt	1516m	West
10033931	0.00m-0.60m soil 0.60m-4.90m Ridge Clay 4.90m-6.70m Clay & Gravel 6.70m-10.40m Clay 10.40m-23.50m Shale Brown 23.50m-23.80m shale brown w.b 23.80m-25.50m Shale brown 25.50m-26.10m Shale brown w.b 26.10m-27.10m Basalt Blue	1522m	North
10122308	0.00m-0.60m Soil 0.60m-4.90m Ridge Clay 4.90m-6.70m Clay & Gravel 6.70m-10.40m Clay 10.40m-23.50m Shale Brown 23.50m-23.80m Shale brown w.b 23.80m-25.50m Shale brown 25.50m-26.10m Shale brown w.b 26.10m-27.10m Basalt blue	1522m	North
10135461	0.00m-0.91m Topsoil Stones 0.91m-2.13m Shale 2.13m-6.40m Slate 6.40m-8.23m Limestone Yellow 8.23m-18.29m Slate 18.29m-34.14m Basalt 34.14m-34.44m Slate Fractured Soak 34.44m-36.58m Basalt 36.58m-36.88m Slate Fractured Water Supply 36.88m-40.84m Basalt Fractured Water Supply	1528m	North
10105395	0.00m-6.10m Clay Soapstone 6.10m-14.94m Clay Shale 14.94m-19.20m Shale 19.20m-25.30m Rock Hard Water Supply 25.30m-26.82m Rock Hard Water Supply 26.82m-27.13m Clay	1546m	North East

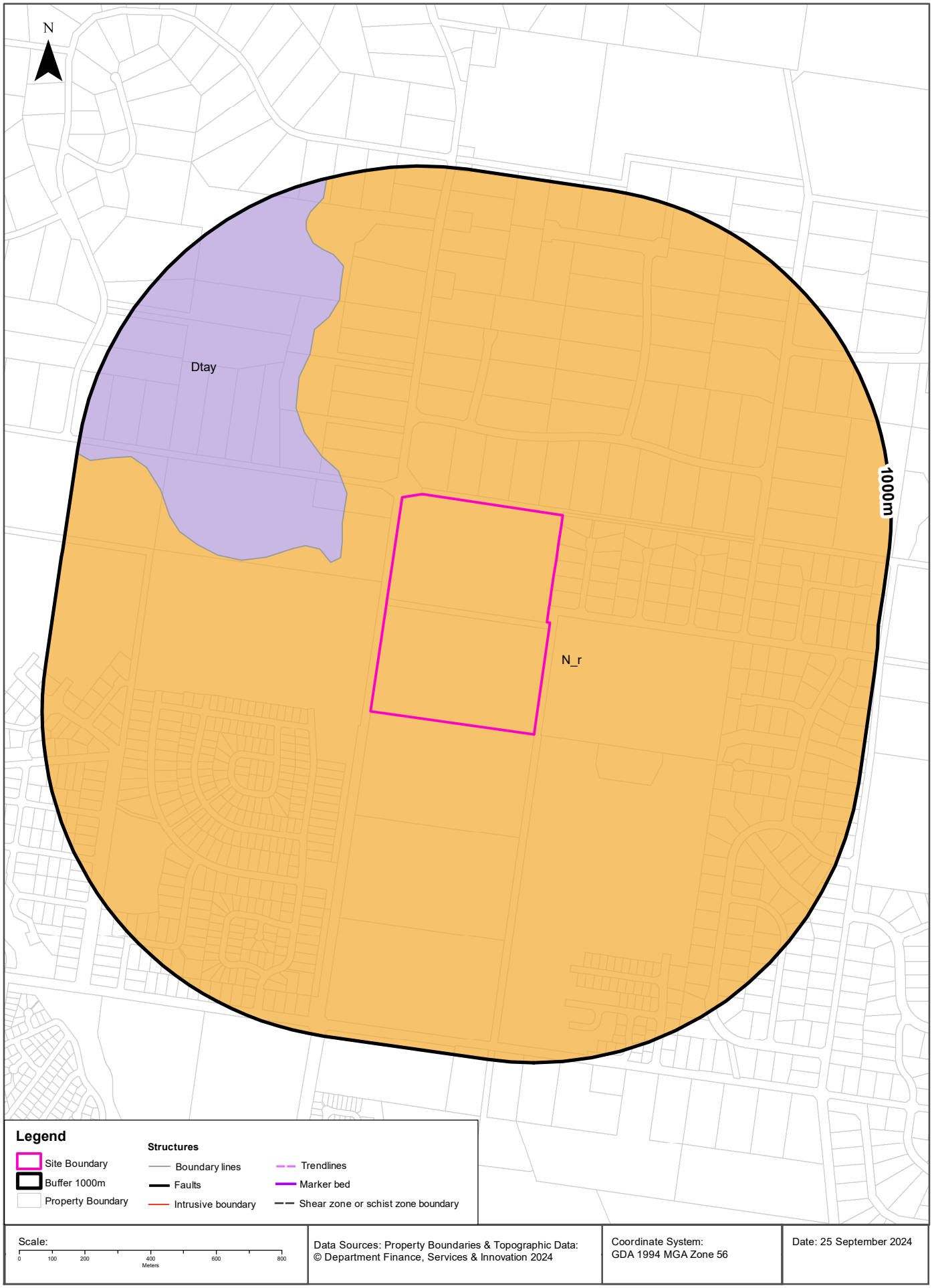
NGIS Bore ID	Drillers Log	Distance	Direction
10006693	0.00m-0.30m Topsoil Red 0.30m-3.00m Clay Red 3.00m-10.00m Shale 10.00m-25.00m Shale Grey 25.00m-47.00m Basalt 47.00m-49.00m Mudstone Water Supply 49.00m-53.00m Basalt	1561m	North West
10043461	0.00m-0.60m Topsoil 0.60m-3.00m Clay 3.00m-13.70m Shale, brown 13.70m-22.20m Basalt 22.20m-23.20m Basalt, water bearing 23.20m-29.20m Basalt 29.20m-31.20m Basalt, water bearing 31.20m-48.80m Basalt	1563m	West
10037944	0.00m-0.60m Overburden 0.60m-2.00m Shale; brown 2.00m-5.40m Clay; brown 5.40m-6.70m Shale; brown 6.70m-7.30m Shale; water bearing 7.30m-11.90m Shale/Clay	1564m	South East
10144641	0.00m-0.91m Topsoil Red 0.91m-3.65m Clay Stoney 3.65m-4.26m Boulders 4.26m-7.31m Basalt Hard 7.31m-22.86m Shale Basalt 22.86m-31.39m Basalt Hard Water Supply 22.86m-31.39m Dolerite 31.39m-42.67m Basalt Greywacke Interlayere Water Supply	1566m	West
10024735	0.00m-0.60m TOPSOIL 0.60m-4.90m RIDGE CLAY 4.90m-6.70m CLAY AND GRAVEL 6.70m-10.40m CLAY 10.40m-23.50m SHALE - BROWN 23.50m-23.80m WATER BEARING BROWN SHALE 23.80m-25.50m BROWN SHALE 25.50m-26.10m WATER BEARING BROWN SHALE 26.10m-27.10m BASLAT - BLUE	1589m	North
10046226	0.00m-15.00m Shale Clay, loose 15.00m-39.70m Shale, brown 39.70m-45.70m Basalt 45.70m-46.00m Basalt, water bearing 46.00m-51.70m Basalt 51.70m-52.00m Basalt, water bearing 52.00m-54.80m Basalt	1596m	South East
10044396	0.00m-0.30m topsoil 0.30m-0.90m red clay 0.90m-15.50m shale 15.50m-66.40m basalt 66.40m-66.70m water bearing basalt 66.70m-75.50m basalt 75.50m-75.80m water bearing basalt 75.80m-78.50m basalt 78.50m-79.20m limestone	1603m	North West
10103031	0.00m-0.30m Soil Red Surface 0.30m-2.00m Clay Red 2.00m-15.00m Shale 15.00m-16.00m Gravel Ridge 16.00m-26.00m Shale Water Bearing 26.00m-38.00m Basalt 38.00m-42.00m Shale Water Supply 42.00m-52.00m Basalt 52.00m-73.00m Basalt Black 73.00m-74.00m Basalt Very Fractured Water Supply 74.00m-83.00m Basalt Black	1617m	North West
10026950	0.00m-0.30m Topsoil 0.30m-11.50m Clay, & Shale 11.50m-36.50m Shale; brown 36.50m-38.00m Shale; water bearing 38.00m-38.00m Shale; brown 38.00m-39.00m (Unknown); water 39.00m-42.60m Basalt; blue	1634m	South East
10052515	0.00m-7.62m Loam Clay	1644m	North
10045278	0.00m-0.50m topsoil 0.50m-16.00m shale/brown 16.00m-76.00m limestone/sedimentary 76.00m-106.00m basalt/blue 106.00m-106.50m water bearing 106.50m-115.80m limestone/sedimentary	1667m	West

NGIS Bore ID	Drillers Log	Distance	Direction
10024180	0.00m-1.08m topsoil 1.08m-1.52m clay 1.52m-3.00m gravelly clay 3.00m-4.50m shale 4.50m-99.00m blue shale	1675m	North East
10110962	0.00m-0.30m Soil Red Surface 0.30m-2.00m Clay Red 2.00m-16.00m Shale 16.00m-23.00m Shale Orange Water Supply 23.00m-43.00m Basalt Orange Water Supply	1677m	North West
10058065	0.00m-1.00m Soil 1.00m-5.00m Brown Clay 5.00m-5.90m Brown Shale 5.90m-24.50m Ridge Clay & Gravel 24.50m-39.70m Shale brown 39.70m-61.00m Shale blue 61.00m-61.10m Shale blue w.b (soak) 61.10m-69.90m Shale blue 69.90m-82.10m Basalt blue 82.10m-82.40m Basalt blue w.b 82.40m-106.40m Basalt blue 106.40m-106.70m Basalt blue w.b 106.70m-109.70m Basalt blue	1711m	South
10029699	0.00m-2.43m Clay, red (boulders) 2.43m-3.65m Gravel 3.65m-9.10m Clay, red 9.10m-10.60m Gravel 10.60m-27.40m Clay, grey (Gravel) 27.40m-32.00m Gravel, tight packed 32.00m-47.20m Weathered Shale 47.20m-48.78m Shale, blue	1738m	South East
10041200	0.00m-0.60m Topsoil 0.60m-4.80m Clay 4.80m-21.30m Shale; brown, & Clay 21.30m-31.00m Shale; brown 31.00m-31.30m Shale; water bearing 31.30m-34.00m Shale; brown 34.00m-36.50m Shale; brown, water bearing 36.50m-39.60m Basalt; blue	1743m	South East
10116019	0.00m-0.30m Soil Red Surface 0.30m-2.00m Clay Red 2.00m-12.00m Shale 12.00m-22.00m Gravel Ridge Water Supply 22.00m-31.00m Shale Water Supply 31.00m-34.80m Basalt	1752m	North West
10034291	0.00m-0.60m Topsoil 0.60m-1.80m Shale Yellow 1.80m-62.40m Shale 62.40m-63.00m Shale Water Supply 63.00m-64.00m Shale	1778m	West
10093983	0.00m-0.60m Clay 0.60m-13.80m Shale brown 13.80m-18.30m Basalt decomposed 18.30m-25.20m Basalt Layer 25.20m-45.60m Shale dark grey 45.60m-65.10m Shale light grey 65.10m-85.50m Basalt 85.50m-93.60m Basalt decomposed 93.60m-106.80m Basalt	1783m	West
10019829	0.00m-0.30m Topsoil Red 0.30m-3.00m Clay Red 3.00m-10.00m Shale 10.00m-33.00m Shale Grey 33.00m-35.00m Shale 35.00m-78.00m Basalt 78.00m-81.00m Mudstone Water Supply 81.00m-83.50m Basalt 83.50m-84.10m Driller	1785m	North West
10026297	0.00m-4.57m Topsoil Clay 4.57m-12.19m Shale Grey Soak 12.19m-45.11m Shale Black 45.11m-76.20m Shale Grey Black Seams Water Supply	1785m	North West
10093570	0.00m-0.60m Soil Red Surface 0.60m-4.00m Shale Grey 4.00m-24.00m Shale 24.00m-50.00m Basalt 50.00m-55.00m Shale Black Water Supply 55.00m-59.00m Basalt	1794m	West

NGIS Bore ID	Drillers Log	Distance	Direction
10026349	0.00m-0.30m SOIL 0.30m-5.50m BROWN SHALE 5.50m-17.70m BLUE BASALT 17.70m-76.20m BLUE BASALT 76.20m-76.50m W.B. BASALT 76.50m-78.60m BASALT 78.60m-96.00m LIMESTONE 96.00m-96.30m W.B. LIMESTONE 96.30m-99.00m LIMESTONE	1825m	West
10031374	0.00m-0.30m SOIL 0.30m-25.60m BOULDERS & CLAY 25.60m-28.90m YELLOW SHALE 28.90m-43.50m BLUE SHALE 43.50m-43.80m W.B. SHALE 43.80m-45.20m BROWN SHALE 45.20m-45.50m W.B. SHALE 45.50m-48.70m BLUE SHALE	1829m	South East
10015799	0.00m-5.49m Soil Surface 0.00m-5.49m Clay 5.49m-7.32m Shale Soft 7.32m-11.89m Shale Hard 11.89m-16.76m Basalt 16.76m-17.98m Shale 17.98m-18.90m Basalt Broken Water Supply 18.90m-22.25m Basalt Green 22.25m-22.56m Basalt Broken Water Supply 22.56m-23.77m Basalt Green 23.77m-24.08m Basalt Broken Water Supply 24.08m-24.99m Basalt Green 24.99m-25.30m Basalt Broken Water Supply 25.30m-27.43m Basalt Green 27.43m-27.74m Basalt Broken Water Supply 27.74m-28.65m Basalt Green	1834m	West
10034046	0.00m-1.52m Topsoil, loamy, brown 1.52m-1.80m Clay, brown 1.80m-3.00m Clay, gravelly, brown 3.00m-4.50m Shale, broken 4.50m-99.00m Shale, blue	1859m	North East
10136273	0.00m-68.00m (	1896m	North West
10109483	0.00m-1.52m Topsoil Red Volcanic 1.52m-7.62m Conglomerate Clay 7.62m-8.84m Diorite Basalt 8.84m-21.34m Diorite Rock Water Supply 21.34m-22.86m Basalt Diorite 22.86m-31.39m Basalt Black	1913m	West
10008144	0.00m-5.06m Sandstone Soft Clay 5.06m-6.28m Boulders Clay 6.28m-8.11m Sandstone 6.28m-8.11m Rock Grey Interlayere 8.11m-9.33m Rock Grey 9.33m-11.16m Rock Grey 11.16m-13.90m Rock Grey Sandstone 13.90m-25.85m Rock Light Grey 25.85m-32.55m Rock Light Grey Hard 32.55m-50.29m Rock Grey Hard Water Supply	1987m	South
10136035	0.00m-1.00m 1.00m-48.80m Ridge Clay 48.80m-54.60m Yellow Shale 54.60m-55.10m W.b. Shale 55.10m-57.80m Brown Shale 57.80m-58.10m W.b. Shale 58.10m-61.00m Brown Shale 61.00m-64.00m Blue Bassalt	1995m	South East
10035299	0.00m-0.30m topsoil 0.30m-5.00m clay and gravel 5.00m-43.00m shale rock 43.00m-45.00m basalt rock	1998m	North West

Geology

Moore Creek Road, Moore Creek, NSW 2340



Geology

Moore Creek Road, Moore Creek, NSW 2340

Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
N_r	Residual deposits	A weakly consolidated regolithic residuum such as soil or saprolite mostly developed in situ as a result of advanced weathering and/or pedogenesis.	\Residual deposits\\\\	Upper Pleistocene (base) to Now (top)	Saprolite	0m
Dtay	Yarrimie Formation	Argillite, chert, siliceous siltstone, limestone, arenite, pebble conglomerate and mudstone with interbedded lithic sandstone and conglomerate lenses.	\Tamworth Group\ \Yarrimie Formation\\	Eifelian (base) to Frasnian (top)	Mudstone	159m

Linear Geological Structures

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

Map ID	Feature Description	Map Sheet Name	Distance
No Features			

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

Map ID	Boundary Type	Description	Map Sheet Name	Distance
No Features				

Naturally Occurring Asbestos Potential

Moore Creek Road, Moore Creek, NSW 2340

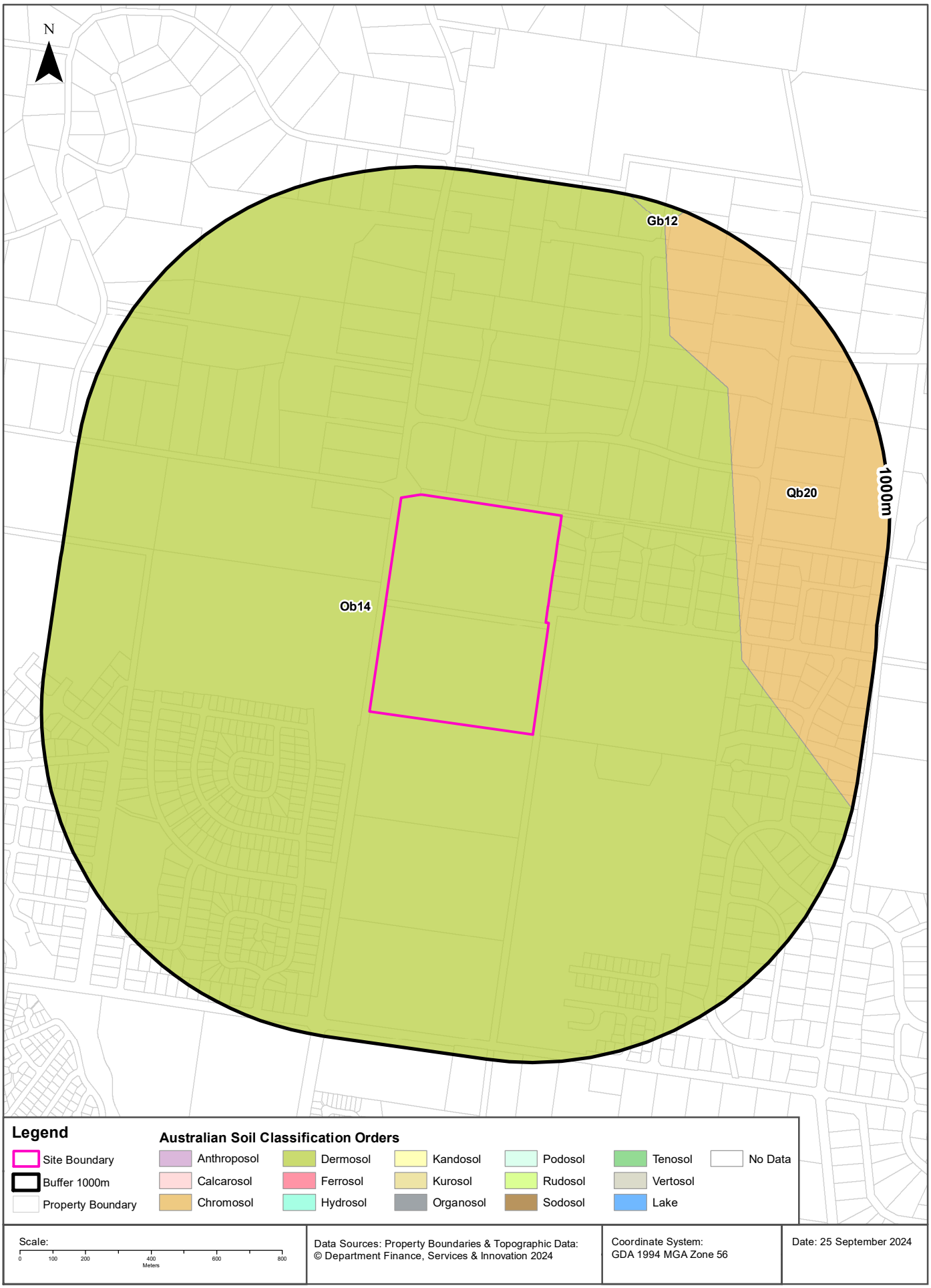
Naturally Occurring Asbestos Potential

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												

Atlas of Australian Soils

Moore Creek Road, Moore Creek, NSW 2340



Soils

Moore Creek Road, Moore Creek, NSW 2340

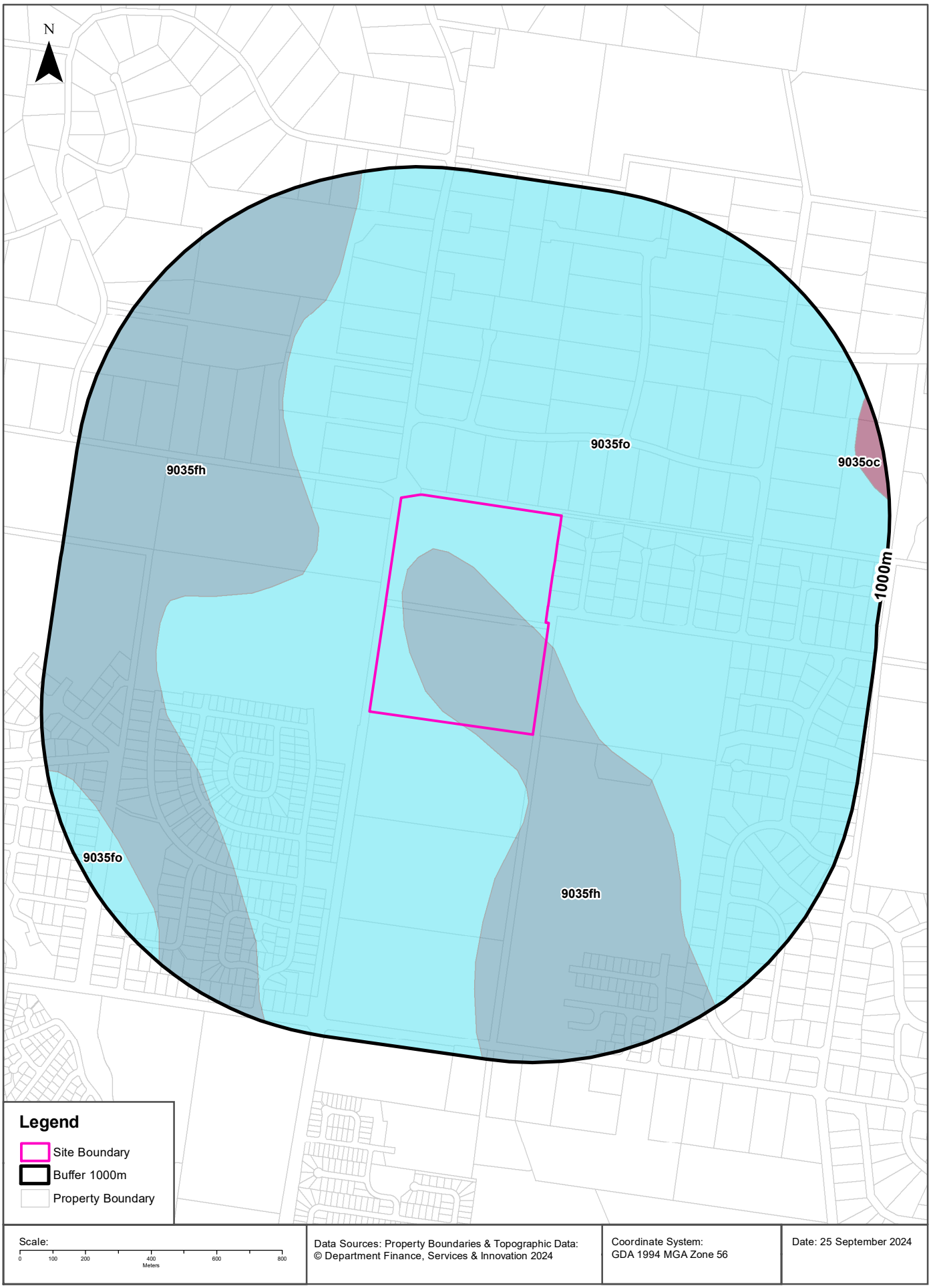
Atlas of Australian Soils

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

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Ob14	Dermosol	Almost flat to strongly undulating terrain with long gentle slopes sometimes broken by ridges: chief soils are hard alkaline red soils (Dr2.23). Associated are relatively small occurrences of many soils, including: dark cracking clays, such as (Ug5. 13 and Ug5 . 15), usually on slopes and in valleys; (Dr2.22) and shallow loams such as (Um4.1), usually on ridges; (Dy2.43) and (Dy3.43) soils, usually in flat areas and valleys. As mapped, small areas of units Gb12, Qb19, and Ra4 are included. Erosion has exposed subsoils in many places.	0m	On-site
Qb20	Chromosol	Steep hilly with rock outcrops: chief soils are hard neutral red soils (Dr2.22). Associated are: shallow loams such as (Um4.1) on steeper slopes; (Db1.22) on slopes; some (Uc) and (Um) soils on alluvial fans; and small areas of many other soils including (Gn2.14) on steeper colluvial slopes especially in eastern occurrences of the unit. As mapped, areas of unit Qb19 are included.	524m	East
Gb12	Dermosol	River flood-plains, terraces, and levees: chief soils are probably dark porous loamy soils (Um6.11 and Um6.12) with other (Um) and (Uc) soils. Associated are, locally, fairly large areas of dark cracking clays such as (Ug5.16); areas of (Dy3.4) soils; and sometimes areas of gravelly (Gn2) soils. Soils data are limited.	936m	North East

Soil Landscapes of Central and Eastern NSW

Moore Creek Road, Moore Creek, NSW 2340



Soils

Moore Creek Road, Moore Creek, NSW 2340

Soil Landscapes of Central and Eastern NSW

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

Soil Code	Name	Distance	Direction
9035fh	Fullwoods Hill	0m	On-site
9035fo	The Forest	0m	On-site
9035oc	Orchard Creek	912m	East

Acid Sulfate Soils

Moore Creek Road, Moore Creek, NSW 2340

Environmental Planning Instrument - Acid Sulfate Soils

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

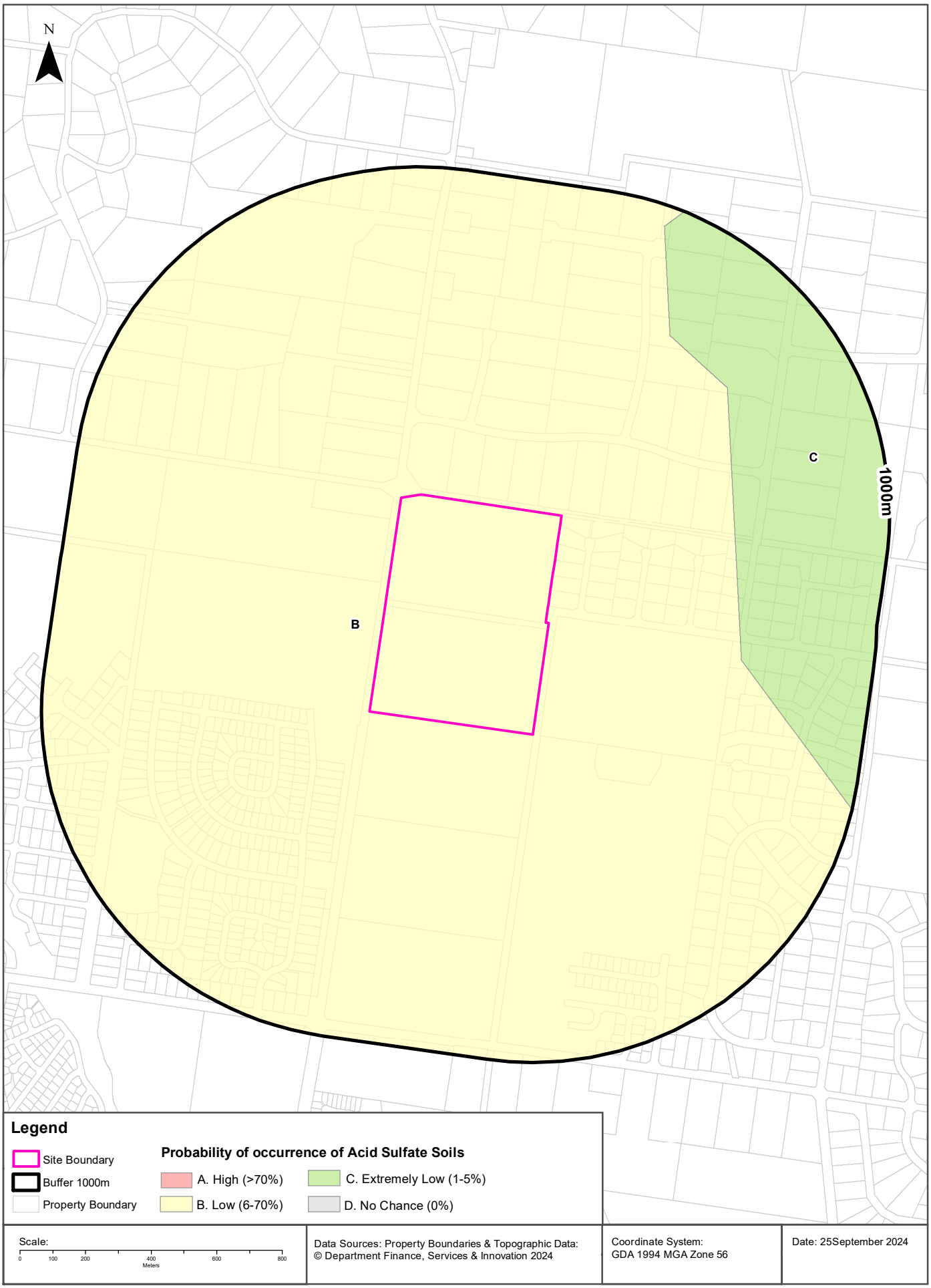
Soil Class	Description	EPI Name
N/A		

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

Soil Class	Description	EPI Name	Distance	Direction
N/A				

Atlas of Australian Acid Sulfate Soils

Moore Creek Road, Moore Creek, NSW 2340



Acid Sulfate Soils

Moore Creek Road, Moore Creek, NSW 2340

Atlas of Australian Acid Sulfate Soils

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

Class	Description	Distance	Direction
B	Low Probability of occurrence. 6-70% chance of occurrence.	0m	On-site
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	522m	East

Dryland Salinity

Moore Creek Road, Moore Creek, NSW 2340

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

Moore Creek Road, Moore Creek, NSW 2340

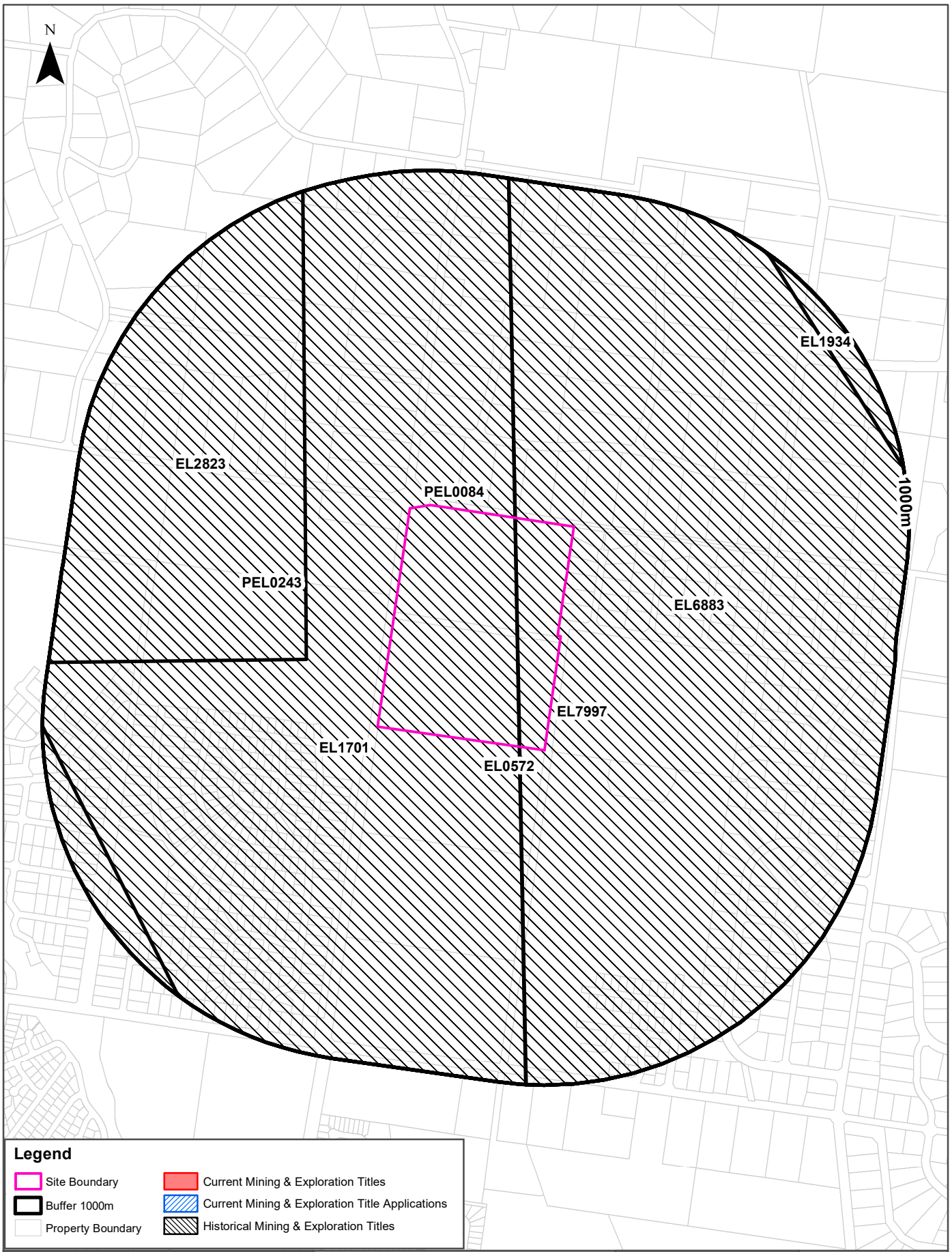
Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

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

Mining & Exploration Titles

Moore Creek Road, Moore Creek, NSW 2340



Mining

Moore Creek Road, Moore Creek, NSW 2340

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

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

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

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

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

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

Mining

Moore Creek Road, Moore Creek, NSW 2340

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
EL1701	SHELL MINERALS EXPLORATION AUSTRALIA PTY LIMITED	19810901	19820101	MINERALS	W Mo	0m	On-site
EL7997	PMR5 PTY LTD	20121029	20131126	MINERALS		0m	On-site
PEL0243	PETROSEARCH PTY LTD, SION RESOURCES AUSTRALIA LTD	19810110	19841210	PETROLEUM	Petroleum	0m	On-site
EL6883	PEEL MINING LIMITED	20070921	20090921	MINERALS		0m	On-site
PEL0084				PETROLEUM	Petroleum	0m	On-site
EL0572	STORNOWAY MINERALS PTY LIMITED	19721201	19730501	MINERALS	Limestone	0m	On-site
EL2823	MUMBIL MINES NL	19870301	19890301	MINERALS	Au Pt	240m	North West
EL1934	CSR LIMITED	19820901	19830901	MINERALS	W	926m	North East

State Environmental Planning Policy

Moore Creek Road, Moore Creek, NSW 2340

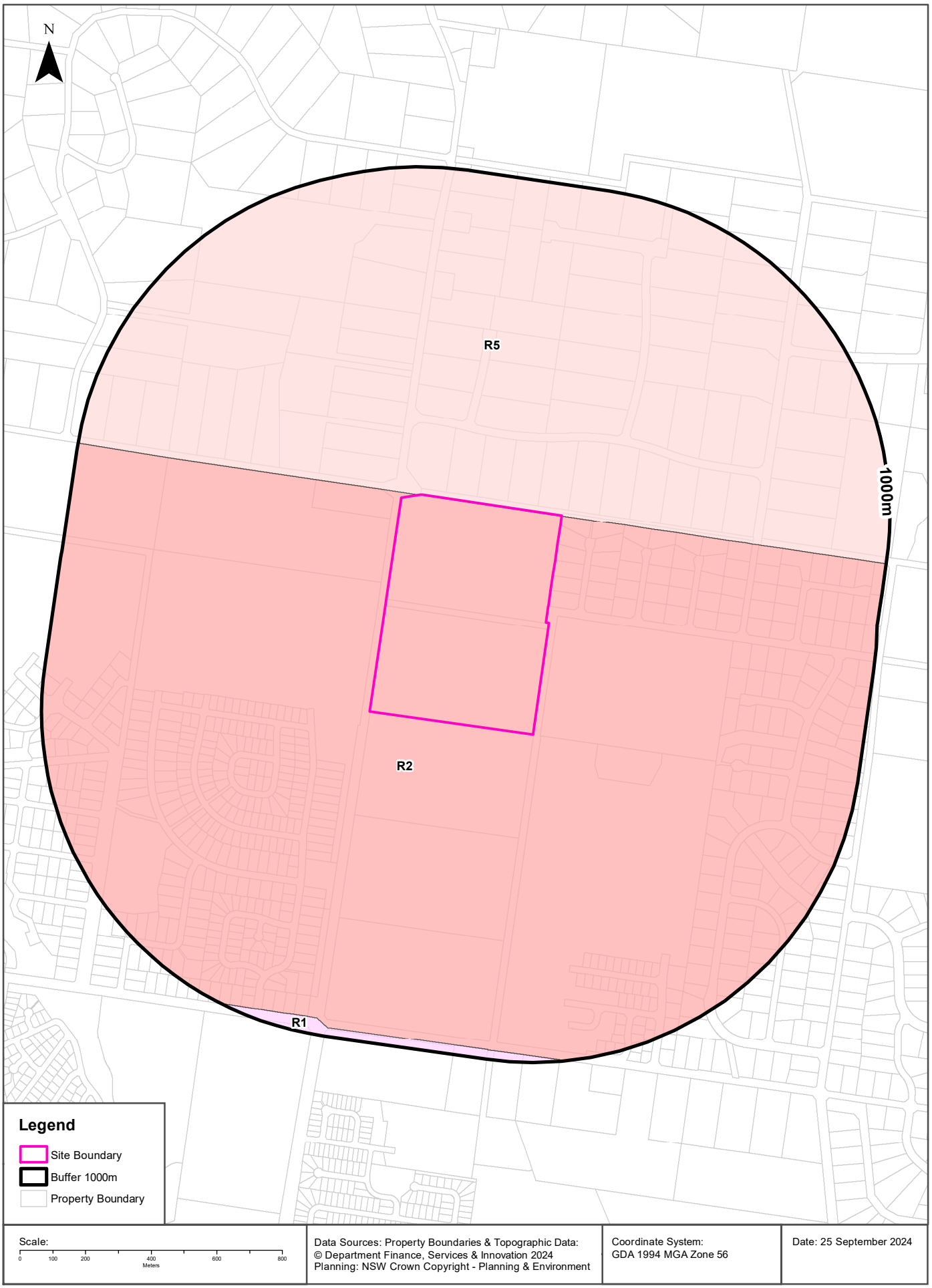
State Significant Precincts

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							

EPI Planning Zones

Moore Creek Road, Moore Creek, NSW 2340



Environmental Planning Instrument

Moore Creek Road, Moore Creek, NSW 2340

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
R2	Low Density Residential		Tamworth Regional Local Environmental Plan 2010	21/01/2011	21/01/2011	23/06/2023		0m	On-site
R5	Large Lot Residential		Tamworth Regional Local Environmental Plan 2010	21/01/2011	21/01/2011	23/06/2023		0m	North
R1	General Residential		Tamworth Regional Local Environmental Plan 2010	21/01/2011	21/01/2011	23/06/2023		949m	South

Heritage

Moore Creek Road, Moore Creek, NSW 2340

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

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

State Heritage Register - Curtilages

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

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

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

Environmental Planning Instrument - Heritage

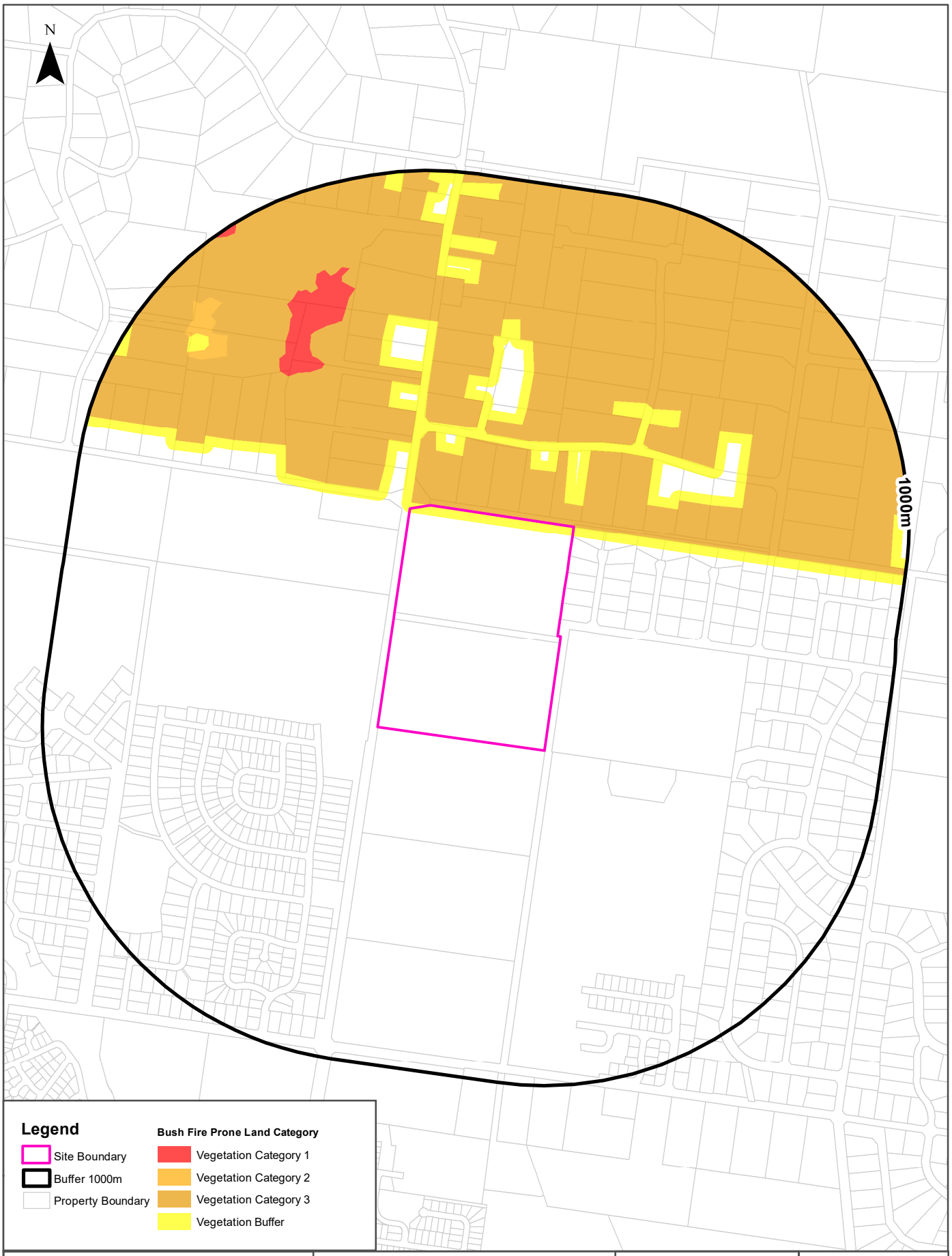
What are the EPI Heritage Items located within the dataset buffer?

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

Heritage Data Source: NSW Crown Copyright - Planning & Environment

Natural Hazards - Bush Fire Prone Land

Moore Creek Road, Moore Creek, NSW 2340



Natural Hazards

Moore Creek Road, Moore Creek, NSW 2340

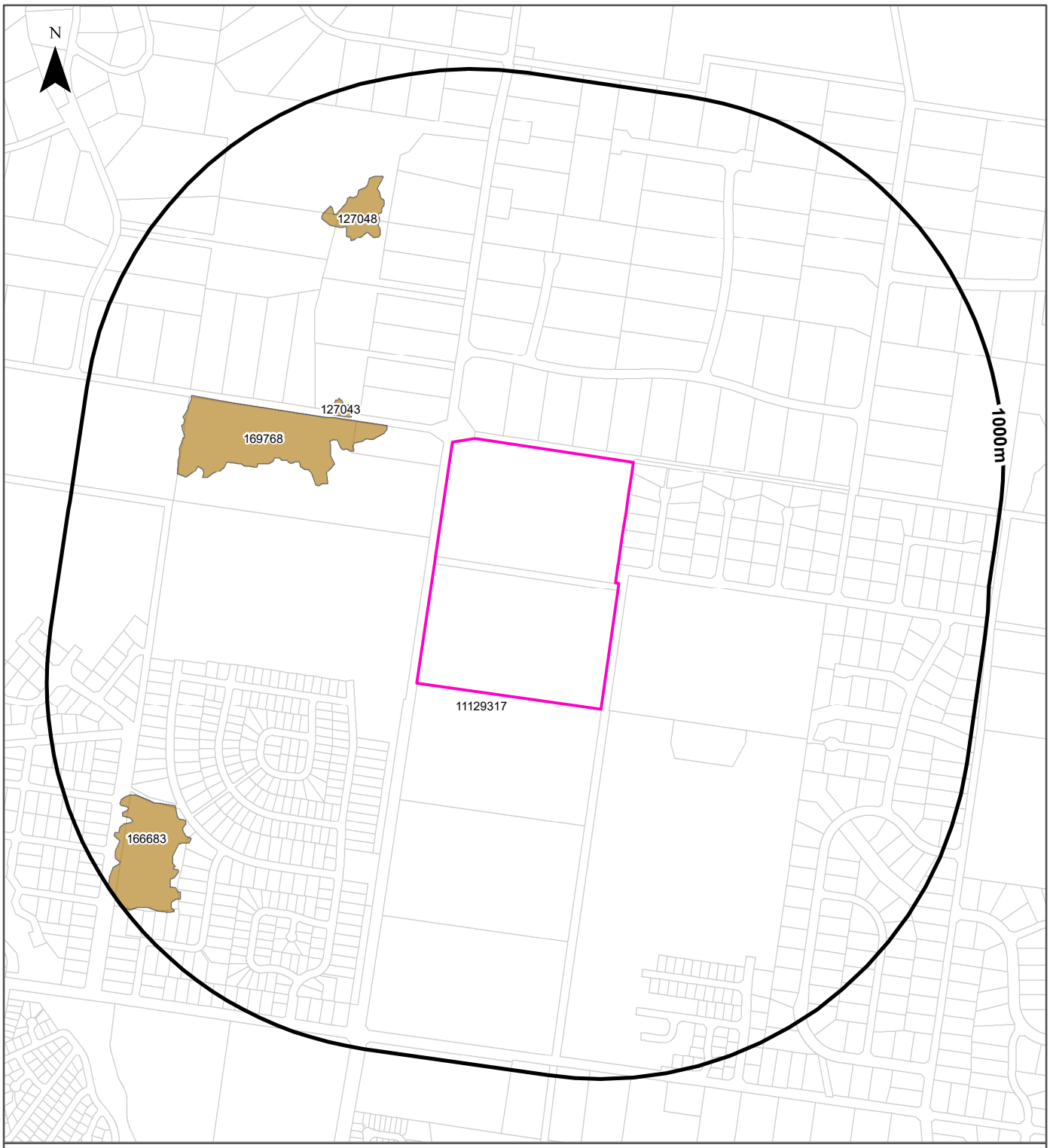
Bush Fire Prone Land

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

Bush Fire Prone Land Category	Distance	Direction
Vegetation Buffer	0m	On-site
Vegetation Category 3	1m	North
Vegetation Category 1	496m	North West
Vegetation Category 2	712m	North West

Ecological Constraints - Vegetation & Ramsar Wetlands

Moore Creek Road, Moore Creek, NSW 2340



- Site Boundary
- ReportBuffer
- Property Boundary
- Ramsar Wetland

Native Vegetation

- Alpine Complex
- Arid Shrublands (Acacia sub-formation)
- Arid Shrublands (Chenopod sub-formation)
- Dry Sclerophyll Forests (Shrub/grass sub-formation)
- Dry Sclerophyll Forests (Shrubby sub-formation)
- Forested Wetlands
- Freshwater Wetlands
- Grasslands
- Grassy Woodlands
- Heathlands
- Rainforests
- Saline Wetlands
- Semi-arid Woodlands (Grassy sub-formation)
- Semi-arid Woodlands (Shrubby sub-formation)
- Wet Sclerophyll Forests (Grassy sub-formation)
- Wet Sclerophyll Forests (Shrubby sub-formation)
- Non vegetated
- Unattributed
- Not classified
- Other

Scale: 0 100 200 400 600 800 Meters

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

Coordinate System: GDA 1994 MGA Zone 56

Date: 25 September 2024

Ecological Constraints

Moore Creek Road, Moore Creek, NSW 2340

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
11129317	Not classified	(Not classified) Not classified	Not classified	0m	On-site
169768	Grassy Woodlands	(Grassy Woodlands) White Box grassy woodland to open woodland on basalt flats and rises in the Liverpool Plains sub-region, BBS Bioregion	Western Slopes Grassy Woodlands	181m	North West
127043	Grassy Woodlands	(Grassy Woodlands) Blakelys Red Gum - Yellow Box grassy tall woodland on flats and hills in the Brigalow Belt South Bioregion and Nandewar Bioregion	Western Slopes Grassy Woodlands	283m	North West
127048	Grassy Woodlands	(Grassy Woodlands) Blakelys Red Gum - Yellow Box grassy tall woodland on flats and hills in the Brigalow Belt South Bioregion and Nandewar Bioregion	Western Slopes Grassy Woodlands	592m	North West
166683	Grassy Woodlands	(Grassy Woodlands) White Box - White Cypress Pine - Silver-leaved Ironbark grassy woodland on mainly clay loam soils on hills mainly in the Nandewar Bioregion	Western Slopes Grassy Woodlands	728m	South West

Ecological Constraints

Moore Creek Road, Moore Creek, NSW 2340

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

Moore Creek Road, Moore Creek, NSW 2340

Collaborative Australian Protected Areas Database - Terrestrial

Protected areas in terrestrial environments identified by the CAPAD within the dataset buffer:

Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
N/A	No records in buffer						

Collaborative Australian Protected Areas Database - Marine

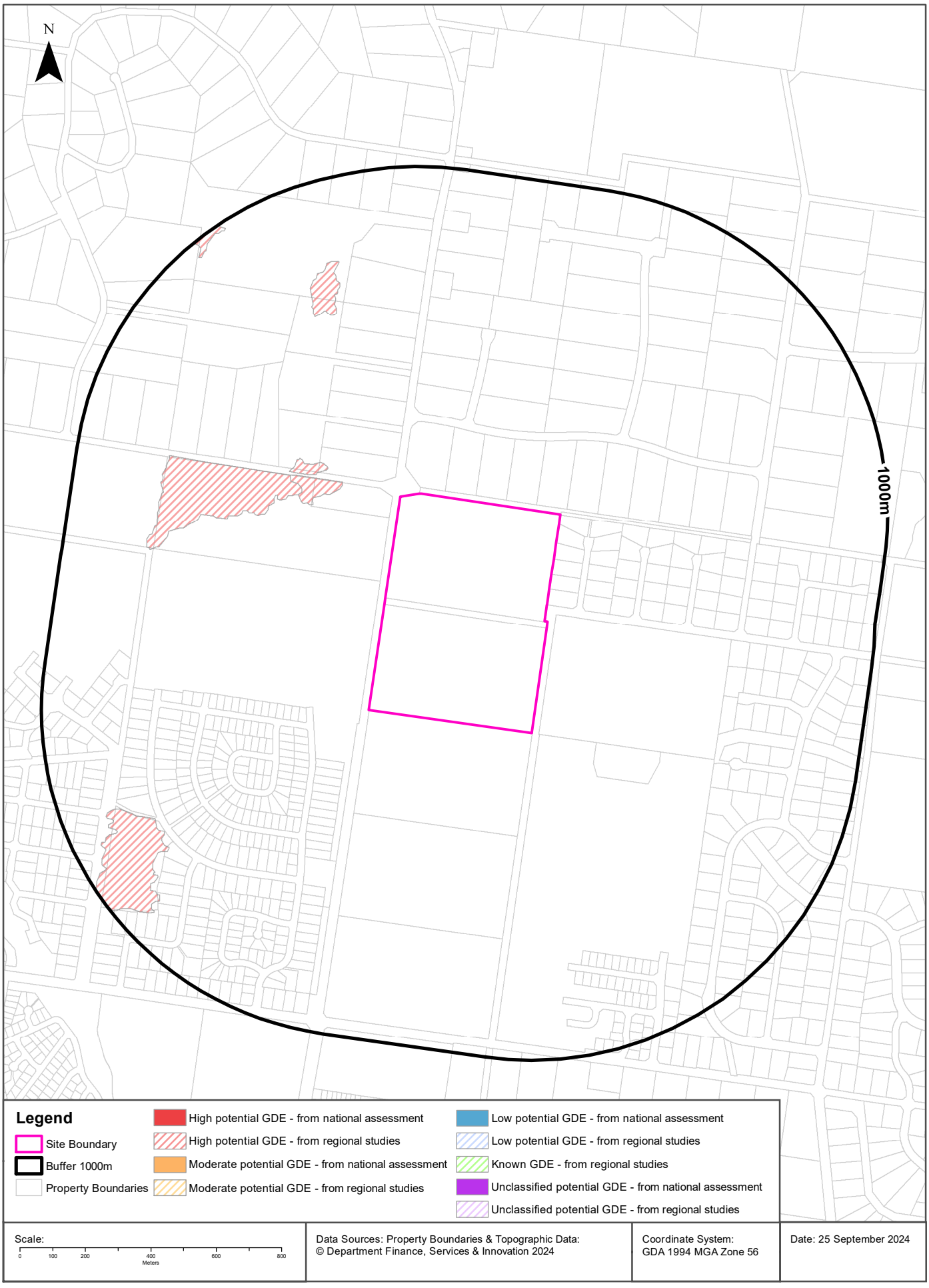
Protected areas in marine environments identified by the CAPAD within the dataset buffer:

Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
N/A	No records in buffer						

Source: Collaborative Australian Protected Areas Database (CAPAD) 2022

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

Moore Creek Road, Moore Creek, NSW 2340



Ecological Constraints

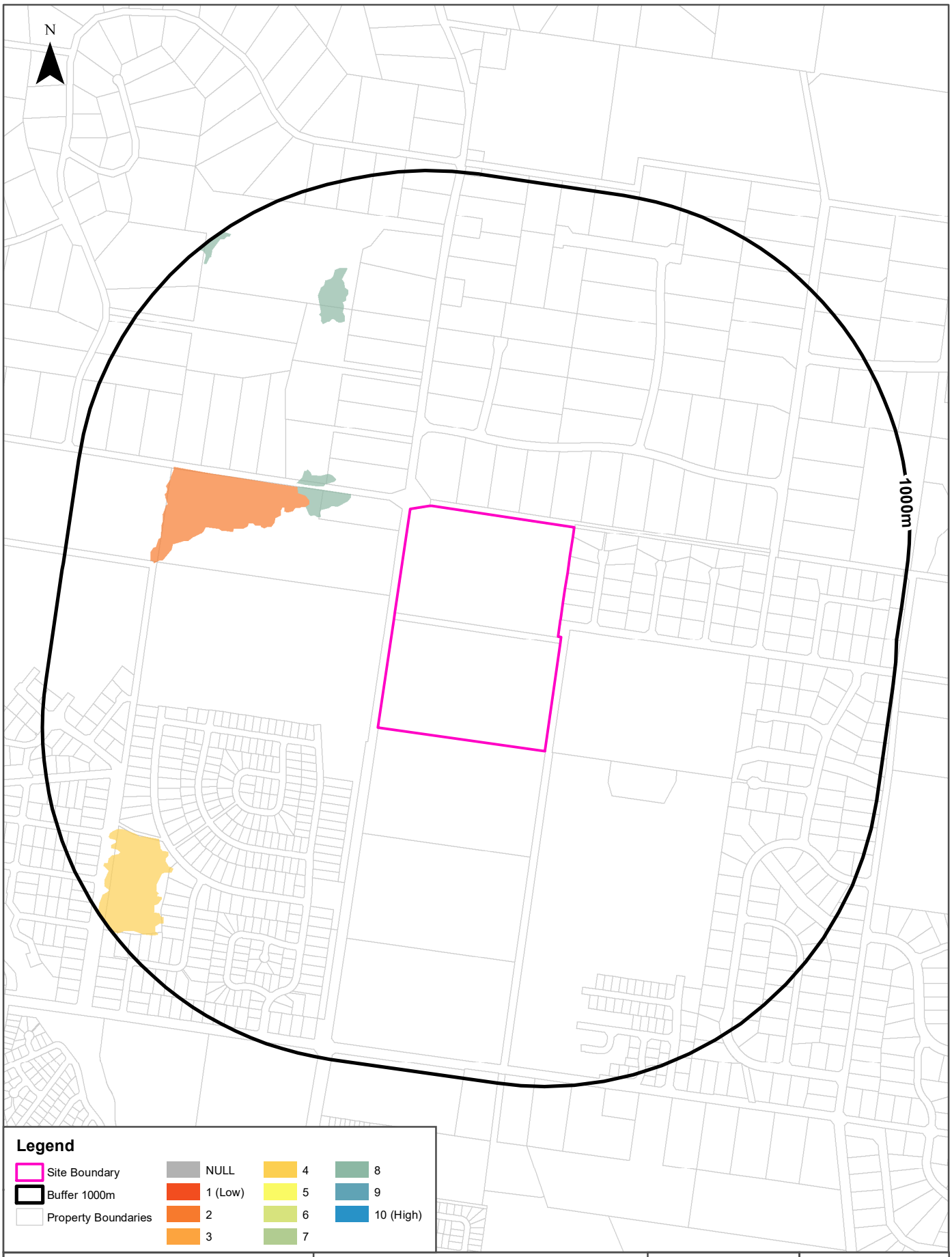
Moore Creek Road, Moore Creek, NSW 2340

Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	High potential GDE - from regional studies	Ridges and valleys in metamorphic rocks.	Vegetation		181m	North West

Ecological Constraints - Inflow Dependent Ecosystems Likelihood

Moore Creek Road, Moore Creek, NSW 2340



Ecological Constraints

Moore Creek Road, Moore Creek, NSW 2340

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	8	Ridges and valleys in metamorphic rocks.	Vegetation		181m	North West
Terrestrial	2	Ridges and valleys in metamorphic rocks.	Vegetation		300m	North West
Terrestrial	4	Ridges and valleys in metamorphic rocks.	Vegetation		728m	South West

Ecological Constraints

Moore Creek Road, Moore Creek, NSW 2340

NSW BioNet Species Sightings

Species sightings from the NSW BioNet Repository that have either a state or federal conservation status, or a sensitivity status, and are within 10 km of the site:
Note: This data does not include NSW Category 1 sensitive species.

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Alectura lathami	Australian Brush-turkey	Not Sensitive	Endangered Population	Not Listed	
Animalia	Aves	Anthochaera phrygia	Regent Honeyeater	Category 2	Critically Endangered	Critically Endangered	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Calyptorhynchus banksii samueli	Red-tailed Black-Cockatoo (inland subspecies)	Category 2	Vulnerable	Not Listed	
Animalia	Aves	Chthonicola sagittata	Speckled Warbler	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Circus assimilis	Spotted Harrier	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Coracina lineata	Barred Cuckoo-shrike	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Falco subniger	Black Falcon	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;JAMBA
Animalia	Aves	Glossopsitta porphyrocephala	Purple-crowned Lorikeet	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Grantiella picta	Painted Honeyeater	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lathamus discolor	Swift Parrot	Not Sensitive	Endangered	Critically Endangered	
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Melanodryas cucullata cucullata	South-eastern Hooded Robin	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Melithreptus gularis gularis	Black-chinned Honeyeater (eastern subspecies)	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Pachycephala inornata	Gilbert's Whistler	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Not Sensitive	Vulnerable	Not Listed	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Pomatostomus temporalis temporalis	Grey-crowned Babbler (eastern subspecies)	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Thinornis cucullatus cucullatus	Eastern Hooded Dotterel	Not Sensitive	Critically Endangered	Vulnerable	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Not Sensitive	Vulnerable	Endangered	
Animalia	Mammalia	Dasyurus viverrinus	Eastern Quoll	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Micronomus norfolkensis	Eastern Coastal Free-tailed Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Petrogale penicillata	Brush-tailed Rock-wallaby	Not Sensitive	Endangered	Vulnerable	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheathtail-bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Aprasia parapulchella	Pink-tailed Legless Lizard	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Reptilia	Chelonia mydas	Green Turtle	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Reptilia	Hemiaspis damelii	Grey Snake	Not Sensitive	Endangered	Endangered	
Animalia	Reptilia	Simoselaps fasciolatus	Narrow-banded Snake	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Uvidicolus sphyrurus	Border Thick-tailed Gecko	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Dichanthium setosum	Bluegrass	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Eucalyptus nicholii	Narrow-leaved Black Peppermint	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Euphrasia ruptura		Not Sensitive	Extinct	Extinct	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Not Sensitive	Endangered	Vulnerable	

Source: NSW BioNet Species Sightings

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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12. These Terms are subject to New South Wales law.

APPENDIX D – TAMWORTH REGIONAL COUNCIL, SECTION 10.7 PLANNING CERTIFICATE

Tamworth REGIONAL COUNCIL

PO Box 555
Tamworth NSW 2340
P 02 6767 5555 E trc@tamworth.nsw.gov.au
www.tamworth.nsw.gov.au
ABN: 52 631 074 450

Certificate No: *PC2024-0333*
Date: *14 August 2023*
Applicants Ref: *215223*

PLANNING CERTIFICATE
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

Applicant:

[redacted]

Owner (as recorded by Council):

[redacted]

Land: Moore Creek Road MOORE CREEK NSW 2340
Lot 57 DP 1120933
Lot 56 DP 1120933

This certificate is provided pursuant to Section 10.7(2) of the Act. At the date of this certificate, the subject land is affected by the following matters.

Names of relevant planning instruments and development control plans

Note: Current environmental planning instruments (State environmental planning policies, regional environmental plans and local environmental plans) may be viewed at the NSW Government legislation web-site – www.legislation.nsw.gov.au.

Names of relevant State Environmental Planning Policies

1. State Environmental Planning Policy (Building Sustainability Index BASIX) 2004
2. State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
3. State Environmental Planning Policy (Housing) 2021
4. State Environmental Planning Policy No. 65 – Design Quality of Residential Apartment Development
5. State Environmental Planning Policy (Biodiversity and Conservation) 2021
6. State Environmental Planning Policy (Industry and Employment) 2021
7. State Environmental Planning Policy (Planning Systems) 2021
8. State Environmental Planning Policy (Primary Production) 2021
9. State Environmental Planning Policy (Resilience and Hazards) 2021
10. State Environmental Planning Policy (Resources and Energy) 2021
11. State Environmental Planning Policy (Transport and Infrastructure) 2021
12. State Environmental Planning Policy (Precincts—Central River City) 2021
13. State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021
14. State Environmental Planning Policy (Precincts—Regional) 2021
15. State Environmental Planning Policy (Precincts—Western Parkland City) 2021

Local Environmental Plan

16. Tamworth Regional Local Environmental Plan 2010

Development Control Plans

17. Tamworth Regional Development Control Plan 2010.

Draft Environmental Planning Policies and Draft Development Control Plans

18. The following proposed environmental planning instruments and draft development control plans are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979, may apply to the carrying out of development on the land:

- **Tamworth Flood Risk Management Plan –** The proposed Tamworth Flood Risk Management Plan documents were on public exhibition between Tuesday 04 April - Friday 19 May 2023, and recommends strategies for the mitigation of future flooding in Tamworth. To view the Plan, visit Council's MyTRC Online Community at https://haveyoursay.tamworth.nsw.gov.au/tamworth-flood-risk-management-plan

Detailed information on all Draft Environmental Planning Policies are available at the NSW Department of Planning and Environment website.

Zoning and land use under relevant LEPs

19. The subject land is affected by the Tamworth Regional Local Environmental Plan 2010. Under this plan, the land is zoned –

R2 Low Density Residential

1. Objectives of zone

- To provide for the housing needs of the community within a low density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.

2. Permitted without consent

Home-based child care; Home occupations; Roads

3. Permitted with consent

Bed and breakfast accommodation; Dwelling houses; Group homes; Health consulting rooms; Home industries; Neighbourhood shops; Oyster aquaculture; Pond-based aquaculture; Tank-based aquaculture; Any other development not specified in item 2 or 4

4. Prohibited

Advertising structures; Agriculture; Air transport facilities; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Eco-tourist facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Health services facilities; Heavy industrial storage establishments; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Local distribution premises; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Recreation facilities (indoor); Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sex services premises; Storage premises; Tourist and visitor accommodation; Transport depots; Vehicle body repair workshops; Vehicle repair stations; Waste or resource management facilities; Water recreation structures; Wharf or boating facilities; Wholesale supplies

Additional permitted uses

20. The land is not subject to additional permissible uses under Schedule 1 of the Tamworth Regional Local Environmental Plan 2010.

Development standards for the erection of a dwelling house

21. There are no development standards that apply to the land with fixed minimum land dimensions for the erection of a dwelling house.

Biodiversity Conservation Act 2016

22. The land is not identified in an area of outstanding biodiversity value under the Biodiversity Conservation Act 2016

Conservation Area

23. The land is not identified in the Tamworth Regional Local Environmental Plan 2010 as being located in a conservation area.

Environmental Heritage Item

24. No environmental planning instrument identifies an item of environmental heritage on the land.

Contributions Plan

25. The name of each contributions plan under the Act, Division 7.1 applying to the land, including draft contributions plans.

- Tamworth Regional Council Section 94 (Direct) Development Contributions Plan 2013 applies to the land.
- Tamworth Regional Council Section 94 (Indirect) Development Contributions Plan 2013 applies to the land.

26. The land is not land in a special contributions area under the Act, Division 7.1.

Complying Development

27. Complying Development may be carried out on the land under the following codes contained within the State Environmental Planning Policy (Exempt & Complying Development Codes) 2008:

- Part 3 - General Housing Code
- Part 3B - Low Rise Housing Diversity Code
- Part 3C - Greenfield Housing Code
- Part 3D - Inland Code
- Part 4 - Housing Alterations Code
- Part 4A - General Development Code
- Part 5 –Industrial and Business Alterations Code
- Part 5A - Industrial and Business Buildings Code
- Part 5B - Container Recycling Facilities Code
- Part 6 - Subdivisions Code
- Part 7 - Demolition Code
- Part 8 - Fire Safety Code

If complying development may not be carried on the land under the above codes, it is because of the provisions of Clauses 1.17A(1)(c) to (e), (2), (3), and (4), 1.18(1)(c3) and 1.19 of the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Council does not have sufficient information to ascertain the reason why complying development may not be carried out under the Policy. Contact Councils Development Hub on development@tamworth.nsw.gov.au for any enquiries relating to the reason why complying development may not be carried out on the land.

Exempt development

28. Exempt Development may be carried out on the land under the following codes contained within Part 2 of the State Environmental Planning Policy (Exempt & Complying Development Codes) 2008:

- Division 1 - General Exempt Development Code
- Division 2 - Advertising and Signage Exempt Development Code
- Division 3 - Temporary Uses and Structures Exempt Development Code

Affected building notices and building product rectifications orders

29. Council is not aware of any affected building notice is in force on the land.

30. Council is not aware of any building product rectification order is in force on the land that has not been fully complied with.

31. Council is not aware of any notice of intention to make a building product rectification order on the land which is outstanding.

Note: In this section, affected building notice has the same meaning as in the Building Products (Safety) Act 2017, Part 4. Building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

Land reserved for acquisition

32. The land is not subject to acquisition by a public authority under any environmental planning instrument, deemed environmental planning instrument or draft environmental planning instrument, as referred to in Section 3.15 of the Act.

Road widening and road realignment

33. The subject land is not affected by any road widening or realignment proposal under either Division 2 of Part 3 of the Roads Act 1993, any environmental planning instrument or any resolution of Council.

Flood related development control information

34. Council is unable to confirm whether the land is within the flood planning area and subject to flood related development controls set out in the provisions of the Tamworth Regional Local Environmental Plan 2010 (Clause 5.21) and the Tamworth Regional Development Control Plan 2010 (Development on Flood Affected Land).

Note: The flood planning area of the land is not known to Council. Consequently, you should conduct investigations necessary for determining flood levels in relation to the land. At this time Council adopts 1:100 + 0.5m freeboard as the Flood Planning Level.

Council and other public authority policies on hazard risk restrictions

35. The land is not affected by an adopted policy that restricts the development of the land because of the likelihood of land slip, bush fire, tidal inundation, subsidence, acid sulfate soils, contamination, aircraft noise, salinity, coastal hazards, sea level rise or another risk,(other than flooding).

Note: adopted policy means a policy adopted—
(a) by the council, or
(b) by another public authority, if the public authority has notified the council that the policy will be included in a planning certificate issued by the council.

Note: The land to which this certificate relates is not subject to the matters identified by Section 59(2) of the Contaminated Land Management Act 1997. You should carry out your own investigations to determine if the site forms part of the list of NSW contaminated sites notified to the NSW Environment Protection Agency. Further investigations by others may be required if it is considered the site may be contaminated.

Bushfire Prone Land

36. The land is not identified as "bushfire prone land" on the Bushfire Prone Land Map, certified by the NSW Rural Fire Service on 28 July 2022. Council has not, by resolution, adopted a policy to restrict development on the land in respect to bushfire for that reason.

Information Regarding Loose-Fill Asbestos Insulation

37. Some residential homes located in the Tamworth Regional Council Local Government Area have been identified as containing loose fill asbestos insulation, for example in the roof space.

You should make your own enquiries as to the age of the buildings on the land to which this certificate relates and, if it contains a building constructed prior to 1980, it is strongly recommended that any potential purchaser obtain advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants.

Contact NSW Fair Trading for further information.

Mine subsidence

38. The land has not been proclaimed to be a mine subsidence district within the meaning of Coal Mine Subsidence Compensation Act 2017.

Paper subdivision information

39. a) There is no adopted development plan that applies to this land or that is proposed to be subject to a consent ballot.
b) There is no subdivision order that applies to the land.

Property vegetation plans

40. Council has not been advised that a Property Vegetation Plan under the Native Vegetation Act 2003 applies to the subject land.

Biodiversity stewardship sites

41. Council has not been advised by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act, 2016. Note. Biodiversity stewardship agreements include biobanking agreements under Part 7A of the Threatened Species Conservation Act, 1995 that are taken to be biodiversity stewardship agreements under Part 5 of the Biodiversity Conservation Act, 2016.

Biodiversity certified land

42. Council has not been advised that the land is biodiversity certified land within the meaning of Part 8 of the Biodiversity Conservation Act, 2016. Note. Biodiversity certified land includes land certified under Part 7AA of the Threatened Species Conservation Act 1995, that is taken to be certified under Part 8 of the Biodiversity Conservation Act 2016.

Orders under trees (disputes between neighbours) act 2006

43. No order has been made under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

Annual charges under local government act 1993 for coastal protection services that relate to existing coastal protection works

44. Not applicable to the subject land.

Western Sydney aerotropolis

45. Not applicable to the subject land.

Development consent conditions for seniors housing

46. Council is not aware of any current site compatibility certificate that has been issued under Clause 79 of State Environmental Planning Policy (Housing) 2021 in respect of proposed development on the land.

Site Compatibility Certificates and Conditions for Affordable Rental Housing

47. Council is not aware of any valid site compatibility certificate being issued under Part 2 of State Environmental Planning Policy (Housing) 2021 or any former site compatibility certificate being issued under Clause 37 of State Environmental Planning Policy (Affordable Rental Housing) 2009, in respect of development on the land

Development Division
Liveable Communities Directorate
14 August 2023

Tamworth REGIONAL COUNCIL

PO Box 555
Tamworth NSW 2340
P 02 6767 5555 E trc@tamworth.nsw.gov.au
www.tamworth.nsw.gov.au
ABN: 52 631 074 450

Certificate No: *PC2023-2073*
Date: *28 February 2023*
Applicants Ref: *215221*

PLANNING CERTIFICATE
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

Applicant:

[redacted]

Owner (as recorded by Council):

[redacted]

Land: Moore Creek Road MOORE CREEK NSW 2340
Lot 58 DP 1120933

This certificate is provided pursuant to Section 10.7(2) of the Act. At the date of this certificate, the subject land is affected by the following matters.

Names of relevant planning instruments and development control plans

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14. State Environmental Planning Policy (Precincts—Regional) 2021
15. State Environmental Planning Policy (Precincts—Western Parkland City) 2021

Local Environmental Plan

16. Tamworth Regional Local Environmental Plan 2010

Development Control Plans

17. Tamworth Regional Development Control Plan 2010.

Draft Environmental Planning Policies and Draft Development Control Plans

18. The following proposed environmental planning instruments and draft development control plans are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979, may apply to the carrying out of development on the land:

- Department of Planning and Environment Employment Zones Reform –- On 26 April 2023, Business and Industrial zones will be replaced by Employment zones within standard instrument local environmental plans. The Department of Planning and Environment exhibited in May 2022 details of how each Local Environmental Plan that includes a Business or Industrial zone will be amended to include Employment zones. The exhibition details can be viewed on the NSW Planning Portal.

Detailed information on all Draft Environmental Planning Policies are available at the NSW Department of Planning and Environment website.

Zoning and land use under relevant LEPs

19. The subject land is affected by the Tamworth Regional Local Environmental Plan 2010. Under this plan, the land is zoned –

R2 Low Density Residential

1. Objectives of zone

- To provide for the housing needs of the community within a low density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.

2. Permitted without consent

Home-based child care; Home occupations; Roads

3. Permitted with consent

Bed and breakfast accommodation; Boarding houses; Dwelling houses; Group homes; Health consulting rooms; Home industries; Neighbourhood shops; Any other development not specified in item 2 or 4

4. Prohibited

Advertising structures; Agriculture; Air transport facilities; Amusement centres; Animal boarding or training establishments; Boat building and repair facilities; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Eco-tourist facilities; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Health services facilities; Heavy industrial storage establishments; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Recreation facilities (indoor); Recreation facilities (major); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sex services premises; Storage premises; Tourist and visitor accommodation; Transport depots; Vehicle body repair workshops; Vehicle repair stations; Waste or resource management facilities; Water recreation structures; Wharf or boating supplies; Wholesale supplies.

Additional permitted uses

20. The land is not subject to additional permissible uses under Schedule 1 of the Tamworth Regional Local Environmental Plan 2010.

Development standards for the erection of a dwelling house

21. There are no development standards that apply to the land with fixed minimum land dimensions for the erection of a dwelling house.

Biodiversity Conservation Act 2016

22. The land is not identified in an area of outstanding biodiversity value under the Biodiversity Conservation Act 2016

Conservation Area

23. The land is not identified in the Tamworth Regional Local Environmental Plan 2010 as being located in a conservation area.

Environmental Heritage Item

24. No environmental planning instrument identifies an item of environmental heritage on the land.

Contributions Plan

25. The name of each contributions plan under the Act, Division 7.1 applying to the land, including draft contributions plans.

- Tamworth Regional Council Section 94 (Direct) Development Contributions Plan 2013 applies to the land.
- Tamworth Regional Council Section 94 (Indirect) Development Contributions Plan 2013 applies to the land.

26. The land is not land in a special contributions area under the Act, Division 7.1.

Complying Development

27. Complying Development may be carried out on the land under the following codes contained within the State Environmental Planning Policy (Exempt & Complying Development Codes) 2008:

- Part 3 - General Housing Code
- Part 3B - Low Rise Housing Diversity Code
- Part 3C - Greenfield Housing Code
- Part 3D - Inland Code
- Part 4 - Housing Alterations Code
- Part 4A - General Development Code
- Part 5 –Industrial and Business Alterations Code
- Part 5A - Industrial and Business Buildings Code
- Part 5B - Container Recycling Facilities Code
- Part 6 - Subdivisions Code
- Part 7 - Demolition Code
- Part 8 - Fire Safety Code

If complying development may not be carried on the land under the above codes, it is because of the provisions of Clauses 1.17A(1)(c) to (e), (2), (3), and (4), 1.18(1)(c3) and 1.19 of the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Council does not have sufficient information to ascertain the reason why complying development may not be carried out under the Policy. Contact Councils Development Hub on development@tamworth.nsw.gov.au for any enquiries relating to the reason why complying development may not be carried out on the land.

Exempt development

28. Exempt Development may be carried out on the land under the following codes contained within Part 2 of the State Environmental Planning Policy (Exempt & Complying Development Codes) 2008:

- Division 1 - General Exempt Development Code
- Division 2 - Advertising and Signage Exempt Development Code
- Division 3 - Temporary Uses and Structures Exempt Development Code

Affected building notices and building product rectifications orders

29. Council is not aware of any affected building notice is in force on the land.

30. Council is not aware of any building product rectification order is in force on the land that has not been fully complied with.

31. Council is not aware of any notice of intention to make a building product rectification order on the land which is outstanding.

Note: In this section, affected building notice has the same meaning as in the Building Products (Safety) Act 2017, Part 4. Building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

Land reserved for acquisition

32. The land is not subject to acquisition by a public authority under any environmental planning instrument, deemed environmental planning instrument or draft environmental planning instrument, as referred to in Section 3.15 of the Act.

Road widening and road realignment

33. The subject land is not affected by any road widening or realignment proposal under either Division 2 of Part 3 of the Roads Act 1993, any environmental planning instrument or any resolution of Council.

Flood related development control information

34. Council is unable to confirm whether the land is within the flood planning area and subject to flood related development controls set out in the provisions of the Tamworth Regional Local Environmental Plan 2010 (Clause 5.21) and the Tamworth Regional Development Control Plan 2010 (Development on Flood Affected Land).

Note: The flood planning area of the land is not known to Council. Consequently, you should conduct investigations necessary for determining flood levels in relation to the land. At this time Council adopts 1:100 + 0.5m freeboard as the Flood Planning Level.

Council and other public authority policies on hazard risk restrictions

35. The land is not affected by an adopted policy that restricts the development of the land because of the likelihood of land slip, bush fire, tidal inundation, subsidence, acid sulfate soils, contamination, aircraft noise, salinity, coastal hazards, sea level rise or another risk,(other than flooding).

Note: adopted policy means a policy adopted—
(a) by the council, or
(b) by another public authority, if the public authority has notified the council that the policy will be included in a planning certificate issued by the council.

Note: The land to which this certificate relates is not subject to the matters identified by Section 59(2) of the Contaminated Land Management Act 1997. You should carry out your own investigations to determine if the site forms part of the list of NSW contaminated sites notified to the NSW Environment Protection Agency. Further investigations by others may be required if it is considered the site may be contaminated.

Bushfire Prone Land

The land is identified as "bushfire prone land" (either whole or part) on the Bushfire Prone Land Map, certified by the NSW Rural Fire Service on 28 July 2022. Council has not, by resolution, adopted a policy to restrict development on the land in respect to bushfire for that reason.

Information Regarding Loose-Fill Asbestos Insulation

36. Some residential homes located in the Tamworth Regional Council Local Government Area have been identified as containing loose fill asbestos insulation, for example in the roof space.

You should make your own enquiries as to the age of the buildings on the land to which this certificate relates and, if it contains a building constructed prior to 1980, it is strongly recommended that any potential purchaser obtain advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants.

Contact NSW Fair Trading for further information.

Mine subsidence

37. The land has not been proclaimed to be a mine subsidence district within the meaning of Coal Mine Subsidence Compensation Act 2017.

Paper subdivision information

38. a) There is no adopted development plan that applies to this land or that is proposed to be subject to a consent ballot.
b) There is no subdivision order that applies to the land.

Property vegetation plans

39. Council has not been advised that a Property Vegetation Plan under the Native Vegetation Act 2003 applies to the subject land.

Biodiversity stewardship sites

40. Council has not been advised by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act, 2016. Note. Biodiversity stewardship agreements include biobanking agreements under Part 7A of the Threatened Species Conservation Act, 1995 that are taken to be biodiversity stewardship agreements under Part 5 of the Biodiversity Conservation Act, 2016.

Biodiversity certified land

41. Council has not been advised that the land is biodiversity certified land within the meaning of Part 8 of the Biodiversity Conservation Act, 2016. Note. Biodiversity certified land includes land certified under Part 7AA of the Threatened Species Conservation Act 1995, that is taken to be certified under Part 8 of the Biodiversity Conservation Act 2016.

Orders under trees (disputes between neighbours) act 2006

42. No order has been made under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

Annual charges under local government act 1993 for coastal protection services that relate to existing coastal protection works

43. Not applicable to the subject land.

Western Sydney aerotropolis

44. Not applicable to the subject land.

Development consent conditions for seniors housing

45. Council is not aware of any current site compatibility certificate that has been issued under Clause 79 of State Environmental Planning Policy (Housing) 2021 in respect of proposed development on the land.

Site Compatibility Certificates and Conditions for Affordable Rental Housing

46. Council is not aware of any valid site compatibility certificate being issued under Part 2 of State Environmental Planning Policy (Housing) 2021 or any former site compatibility certificate being issued under Clause 37 of State Environmental Planning Policy (Affordable Rental Housing) 2009, in respect of development on the land

Development Division
Liveable Communities Directorate
28 February 2023

APPENDIX E – LABORATORY CERTIFICATES OF ANALYSIS

EnviroScience SOLUTIONS

Protecting Health and the Environment Through Science

LABORATORY ANALYSIS REPORT
Asbestos Identification Report

Report No: B40579-R1
Client: [redacted]
Client Address: 162 Marius Street, Tamworth,NSW, 2340

Report Date: Monday, 14 October 2024
Analysed Date: Monday, 14 October 2024
Laboratory Receival Date: Friday, 11 October 2024
Sampled Date: Thursday, 10 October 2024
Sampled by : [redacted]

Attention: [redacted]
Approved Identifier and Signatory: [redacted]

Sampled From: Moore Creek Road, Moore Creek, NSW 2340

Test Method: Polarised Light Microscopy (PLM) including Dispersion Staining (DS), EnviroScience Solutions Pty Ltd in-house laboratory method, in accordance with Australian Standard AS4964-2004 'Method for the qualitative identification of asbestos in bulk samples'. Accredited for compliance with ISO/IEC:17025-Testing.
Please note that EnviroScience Solutions does not accept responsibility for the sample submitted in relation to its source.

Sample Number	Sample Location	Sample Description	Sample Size	Asbestos Detected	Fibres Detected
B40579-S1	Debris Stockpile, South Fence Old House	Vinyl Tile	9.0 gm	No	Synthetic Mineral
B40579-S2	Debris Stockpile, South Fence Old House	Insulation	1.4 gm	No	Synthetic Mineral, Organic
B40579-S3	Debris Stockpile, South Fence Old House	Fibre cement	3.0 gm	Yes	Chrysotile, Organic
B40579-S4	pipe	Fibre cement	15.9 gm	Yes	Chrysotile, Amosite
B40579-S5	Bathroom Walls	Fibre cement	6.2 gm	Yes	Chrysotile
B40579-S6	Debris East Old House	Fibre Roof	1.8 gm	No	Synthetic Mineral
B40579-S7	Kitchen	Fibre cement	21.5 gm	Yes	Chrysotile

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NATA Accreditation No. 19366
ACN 157 918 262
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NATA WORLD RECOGNISED ACCREDITATION