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URBAN PROPERTY GROUP PTY LTD



Preliminary Site Investigation

4-5, 6-7 and 8 Buchan Avenue, Edmondson Park NSW

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Executive Summary

EI Australia (EI) was engaged by Urban Property Group Pty Ltd ('the client') to conduct a Preliminary Site Investigation of the properties located at 4-5, 6-7 and 8 Buchan Avenue, Edmondson Park NSW (known as Sites 3, 4 and 5).

The site is located within the local government area (LGA) of Liverpool City Council (**Figure A1**, **Appendix A**) and covers a combined area of approximately 32,310 m^2 and comprises cadastral allotments Lot 4-8 in Deposited Plan (DP) 1275478 (**Figure A2**). At the time of this investigation, the sites were vacant and/or used as a site office and storage area for adjacent construction sites.

This PSI is submitted to the Department of Planning, Housing and Infrastructure (DPHI) on behalf UPG Edmondson Parkland Pty Ltd (UPG) (the Applicant), to support a State Significant Development Application (SSDA, ref. SSD-88953706) and Concurrent Rezoning Report for the construction of a new multi stage residential project. This PSI has been prepared in response to the Secretary's Environmental Assessment Requirements (SEARs, C.13, ref. SSD-88953706, dated 25 August 2025) for the proposed development.

The proposed development comprises a mix of shop-top housing, residential flat buildings (RFB) and co-living housing, affordable housing, together with public domain improvements including a new publicly accessible plaza, a public library, through-site pedestrian links, and varying levels of basement car parking facilities. The scope of works included a desktop study to evaluate the potential for site contamination on the basis of historical land uses and documentary evidence of possible pollutant sources.

The aim of this investigation was to appraise the environmental condition (potential contamination) and determine the contamination status of the land. This investigation enables the future developer to meet obligations under the *Contaminated Land Management Act 1997* and *State Environmental Planning Policy (Resilience and Hazards) 2021*, in particular the requirements for the assessment and management of contaminated soil and groundwater in a mixed-use land use scenario.

Key Findings

- Based on the available historical information, the sites were vacant, agricultural (potentially) land with no evidence of human activity up until 2019 when the construction of the new residential estate began development.
- The surrounding areas were predominately vacant up until 2014 when residential development within Edmondson Park increased. No historical or existing potentially contaminating activities were identified close proximity (≤500 m) to the site.
- Aerial imagery showed that stockpiles were present within Sites 3 and 4 (Lots 4-7) from 2019 to 2023. Stockpiles were observed at Site 4 (Lots 6-7) during the site walkover inspection and were described as a combination of silty sand topsoil (with grass and rootlets), gravelly clay (with shale cobbles and gravels) and shale gravels, cobbles and boulders.
    - It is understood that this is excavated material from neighbouring developments. No visual indicators of contamination were observed.
- During the site walkover inspection, it was evident that a filling operation had taken place on the eastern portion of Site 4. Based on an available Earthworks Report (ASCT, 2023) it is understood that this is also site won material from neighbouring developments; and was imported for site levelling purposes.
    - The site won material was described as silty gravelly clay with low to medium plasticity.

  - Minor anthropogenic material (e.g. plastic, concrete) were observed on the ground surfaces however there were no other visual indicators of contamination.
- Searches of the publicly available NSW EPA records indicated that:
  - The site (or for any properties within a 500m radius of the site) was free of statutory notices and licencing agreements issued under the *Contaminated Land Management Act 1997* and *Protection of the Environment Operations Act 1997*. No part of the property was included on the *List of NSW Contaminated Sites Notified to the EPA*.
  - There were no entries for the site (or for any properties within a 500m radius of the site) on the Protection of the Environment Operations (POEO) public register.
  - There was one current and nine former organisations with licensed activities under the Protection of the Environment Operations (POEO) Act 1997 recorded within a 500m radius of the site, including:
    - Sydney Trains (current, railway systems activities) – 12 m south;
    - John Holland Pty Ltd (former, railway systems activities) – 12 m south;
    - Luhrmann Environment Management Pty Ltd, Robert Orchard, Liverpool City Council, Sydney Weed & Pest Management Pty Ltd (former, application of herbicides in waterways) – onsite.
  - These activities are considered to be low risk of potential contamination migrating to the site.
- Based on regional soil landscape information and previous EI investigations of the area, the sub-surface conditions are expected to comprise a layer of silty sand filling (≤1m thickness); overlying natural, residual soils dominated by clay and then weathered shale bedrock.
- Based on local hydrographic features, groundwater flow direction is inferred to be to the east, towards the adjacent creek system.
- The CSM established that the site posed a low risk with respect to land contamination, derived from the following sources:
  - Imported site won fill materials from neighbouring sites (used to grade building areas);
  - Stockpiles of material from neighbouring sites;
  - Former on-site agricultural activities, including the application of fertilisers and/or pesticides;
  - Potential groundwater migration of contaminants from off-site sources and deposition in creek sediments; and
  - Leakage from vehicles.

Conclusion

Based on the findings of this PSI, and with consideration of EI's *Statement of Limitations* (**Section 7**), it was concluded that there is a low potential for contamination to be present at the site. EI considers the site is suitable for its proposed redevelopment, subject to the implementation of the recommendations outlined below:

- In the absence of chemical data for imported material currently placed on the site (specifically the imported site won material and stockpiled material in Site 4), additional characterisation sampling should be completed to determine the site suitability of such materials (including stockpiles). Should such material be designated for off-site disposal

(i.e. for basement construction), sampling and analysis should be completed in accordance with the NSW EPA Waste Classification Guidelines (NSW EPA, 2014). These works should be completed prior to construction commencing.

- A Construction Environmental Management Plan (CEMP) for the excavation, waste classification, and handling of all soils from the site should be developed. The CEMP should be prepared prior to the commencement of construction works, and in accordance with relevant Liverpool City Council DCPs and development consent conditions. The CEMP should include provisions for the management of waste soils including, but not limited to:
  - Typical concerns to take into consideration during development, such as, but not limited to, dust, noise, odour, vibration, safety and traffic;
  - Waste management of soils (including fill) to ensure that these are appropriately classified for disposal in accordance with NSW EPA (2014);
  - Unexpected Finds Protocols (UFP), should any unexpected contamination or hazardous materials are identified during the site earthworks.
- All soils designated for off-site disposal, including any *virgin excavated natural material* (VENM), should be managed in accordance with an appropriate waste management plan, ensuring that soils are appropriately classified for disposal in accordance with NSW EPA (2014).
- An UFP should be implemented in case any unexpected contamination or hazardous materials are identified during the site earthworks (an example is provided in **Appendix F**).

Note: The above recommendations can be managed through the development consent process, in accordance with *State Environmental Planning Policy (Resilience and Hazards) 2021*.

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1. Introduction

1.1. Background and Purpose

EI Australia (EI) was engaged by Urban Property Group Pty Ltd ('the client') to conduct a Preliminary Site Investigation of the properties located at 4-5, 6-7 and 8 Buchan Avenue, Edmondson Park NSW (known as Sites 3, 4 and 5).

The sites are located within the local government area (LGA) of Liverpool City Council (**Figure A1**, **Appendix A**) and cover a combined area of approximately 3.1 hectares (ha), comprising cadastral allotments Lots 4-8 in Deposited Plan (DP) 1275478 (**Figure A2**). At the time of this investigation, the sites were vacant and/or used as a site office and storage area for adjacent construction sites.

This PSI is submitted to the Department of Planning, Housing and Infrastructure (DPHI) on behalf UPG Edmondson Parkland Pty Ltd (UPG) (the Applicant), to support a State Significant Development Application (SSDA, ref. SSD-88953706) and Concurrent Rezoning Report for the construction of a new multi stage residential project.

The project has been identified by the NSW Housing Delivery Authority (HDA) as a key development to accelerate the delivery of well-located, diverse and affordable housing across Greater Sydney, with the HDA playing a coordinating role across government agencies to unlock complex sites through strategic planning, infrastructure coordination and streamlined assessment pathways. On 19 February 2025, the HDA recommended that the proposed development on Sites 4 and 5 (6–7 and 8 Buchan Avenue, Edmondson Park), as outlined in EOI application (Ref. 232588, dated 17 January 2025), be declared State Significant Development (SSD) under section 4.36(3) of the *Environmental Planning and Assessment Act 1979*, followed by a similar recommendation on 2 June 2025 for Site 3 (4–5 Buchan Avenue, Edmondson Park) as described in EOI application (Ref. 246574, dated 14 March 2025). These recommendations were formalised through the Minister's issuance of State Significant Development Declaration Order (No. 9) 2025 on 12 June 2025, with the proposals to be facilitated by a concurrent amendment to the *State Environmental Planning Policy (Precincts – Western Parkland City) 2021*.

The aim of this investigation was to appraise the environmental condition (potential contamination) and determine the contamination status of the land. This investigation also enables the future developer (if any) to meet obligations under the *Contaminated Land Management Act 1997* and *State Environmental Planning Policy (Resilience and Hazards) 2021*, in particular the requirements for the assessment and management of contaminated soil and groundwater in a mixed land use scenario.

1.2. Proposed Development

1.2.1 Rezoning Proposal

To facilitate the proposed development described in **Section 1.2.2**, a Rezoning Proposal is sought to seek the following amendments to the *State Environmental Planning Policy (Precincts – Western Parkland City) 2021* (Precincts SEPP):

- Amend the Height of Buildings Map to apply a suite of maximum building heights across the site, ranging from 52m – 135m;
- Amend the Floor Space Ratio (FSR) Map to apply maximum FSRs of 3.7:1 - 5.4:1 across the site;
- Remove the requirement for a Development Control Plan for the site;

- Permit development for the purposes of 'commercial premises' on Site 5.

1.2.2 State Significant Development Application

Based on the provided plans (**Appendix B**), the proposed development comprises a mix of shop-top housing, residential flat buildings (RFB) and co-living housing, affordable housing, together with public domain improvements including a new publicly accessible plaza, a public library and through-site pedestrian links and varying levels of basement car parking facilities. Specifically, the proposed development will comprise the following:

- Construction of fourteen residential towers (ranging in height between 6-40 storeys) over five podiums (ranging in height between 2-5 storeys), comprising:
  - Mixed use podiums in Site 5.
  - Public library in Site 3.
  - A total of 1,805 residential apartments located above in a combination of build to sell, affordable, and co-living formats.
- Basement car parking.
- Associated landscaping and public domain improvements, including a new publicly accessible plaza, public library and through site links.

1.3. Relevant SEAR for this Report

This PSI has been prepared in response to the Secretary's Environmental Assessment Requirements (SEARs, ref. SSD-88953706, dated 25 August 2025) for the proposed development. Specifically, this report has been prepared to respond to the SEAR outlined in **Table 1-1** below.

Table 1-1 Secretary's Environmental Assessment Requirements

SEAR	SEAR description	Report name
13. Contamination and Remediation	*'In accordance with Chapter 4 of the State Environmental Planning Policy (Resilience and Hazards) 2021, asses and quantify any soil and groundwater contamination and demonstrate that the site is suitable (or will be suitable, after remediation) for the development'.*	Preliminary Site Investigation

1.4. Project Objective

The objectives of this PSI were to:

- Provide a qualitative assessment of the environmental condition of the site, by appraising the potential for contamination on the basis of historical land uses and other anecdotal and documentary evidence;
- Provide a conclusion about the suitability of the site for its proposed use; and
- Provide recommendations for further investigation of the site (if required).

1.5. Scope of Works

In order to achieve the above objective, the following scope of works was completed:

- A review of relevant geological and soil landscape maps for the site area;
- A search for groundwater bore records within close vicinity (500m radius) of the site;
- A site walkover inspection;

- A review of site history, based on a historical database search (by Lotsearch Pty Ltd), a set of aerial photographs (dating back to 1950) and property files archived by Liverpool City Council;
- Searches of public registers maintained by the NSW Environment Protection Authority (NSW EPA) for statutory notices and licensing agreements issued under the *Contaminated Land Management Act 1997* and *Protection of the Environment Operations Act 1997*;
- A search of the *List of NSW Contaminated Sites Notified to the EPA;*
- Presentation of a conceptual site model (CSM); and
- Data interpretation and reporting.

This PSI report was completed with reference to the NSW EPA (2020). It documents the investigation works, with discussion of the findings in regards to potential exposure pathways to human health and the environment. It concludes with a statement concerning the potential for contamination to exist on the land.

1.6. Regulatory Framework

The following regulatory framework and guidelines were considered for this PSI:

- *Contaminated Land Management Act 1997* (the CLM Act 1997);
- *Edmondson Park South Development Control Plan 2012*;
- *Environmental Planning and Assessment Act 1979* (the EP&A Act 1979);
- *State Environmental Planning Policy (Resilience and Hazards)* (2021);
- *Liverpool Local Environmental Plan 2008;*
- NEPC (2013) *National Environment Protection (Assessment of Site Contamination) Amendment Measure;*
- NSW EPA (2014) *Waste Classification Guidelines;*
- NSW EPA (2017) *Guidelines for the NSW Site Auditor Scheme;*
- NSW EPA (2020) *Consultants Reporting on Contaminated Land*; and
- *Protection of the Environment Operations Act 1997* (the POEO Act 1997).

2. Site Description

2.1. Property Identification, Location and Physical Setting

The site identification details and associated information are presented in **Table 2-1**. The site locality and area are shown in **Figures A1** and **A2**.

Table 2-1 Site Identification

Attribute	Description
Street Address	4-5, 6-7 and 8 Buchan Avenue, Edmondson Park NSW
Location	Located approximately 320 metres north-west from the Edmondson Park train station, the site is bound by: ▪ Jericho Road, followed by construction sites to the north; ▪ Maxwells Creek, followed by vacant land, Buchan Avenue and Edmondson Park train station to the east; ▪ Railway line, followed by vacant woodland to the south; and ▪ Edmondson High School construction site and Bezentin Ridge Road, followed by Clermont Park and low-density residential properties to the west.
Geographical Coordinates	North-eastern corner of site (GDA2020-MGA56): ▪ Easting: 301944.198 ▪ Northing: 6239506.836 (Source: https://portal.spatial.nsw.gov.au/explorer/index.html)
Site Area	Site 3 (Lot 4-5 in DP 1275478): 11,641 m^2 Site 4 (Lot 6-7 in DP 1275478): 8,219 m^2 Site 5 (Lot 8 in DP 1275478): 12,450 m^2 (Source: Plus Studio (2026a))
Lot and DP	Lots 4-8 in DP 1275487
State Survey Marks	Fourteen state survey marks are situated within close proximity (<250m) to the site. The closest five are listed below: ▪ SS212123: on Buchan Avenue (approximately 5m south of Lot 4); ▪ SS191920F: on Faulkner Way (approximately 95m west of Lot 4); ▪ SS212124: on Buchan Avenue (approximately 100m east of Lot 8); ▪ SS191915F: on Faulkner Way (approximately 120m south-west of Lot 4); ▪ SS191921: on Guillemont Road (approximately 130m north-west of Lot 4); (Source: https://portal.spatial.nsw.gov.au/explorer/index.html)
LGA	Liverpool City Council
Current Zoning	R1: General Residential (*State Environmental Planning Policy (Precincts – Western Parkland City) 2021*

2.2. Local Land Use

The site is situated within a general commercial and residential area. The sensitive receptors within close proximity (<500 m) to the site are identified in **Table 2-2**.

Table 2-2 Local Land Use

Direction	Land Use Description	Sensitive Receptor (distance from site)
North	St Francis Catholic College Residential properties	Children (125 m north) Residents/visitors (185 m north-east)
South	Edmondson Regional Park Riparian creek	Recreation users and ecological habitat (45m south) Ecological habitat (185 m south)
East	Riparian creek corridor Residential properties	Recreation users and ecological habitat (immediately adjacent) Residents/visitors (185 m north-east)
West	Edmondson Park Pre School Clermont Park Residential properties	Children (30 m south-west) Recreation users and ecological habitat (23 m west) Residents/visitors (90 m west)

2.3. Regional Setting

Regional topography, geological and soil landscape information is given in **Table 2-3**.

Table 2-3 Regional Setting

Attribute	Description
Topography	Site 3 is sloping to the south-east from an elevation of approximately 65 mAHD on the north-west boundary to 57 mAHD on the south-east boundary. Site 4 is sloping to the east from an elevation of approximately 58 mAHD on the north-west boundary to 54 mAHD on the east boundary. Site 5 is sloping to the north-east from an elevation of approximately 59 mAHD on the south-west boundary to 56 mAHD on the north boundary.
Drainage	Site drainage is likely to consist of mostly surface infiltration. Any run off would flow in an easterly direction, following topography, into the creek system adjacent (east) to the site.
Geology	The Geological Survey of NSW Penrith1:100,000 Geological Series Sheet 9030 (DMR, 1991) indicates the sites are underlain by Wianamatta Group shale, carbonaceous claystone, claystone, laminate, lithic sandstone, rare coal and tuff. Similarly, the seamless geological map (DPIRD, 2025) indicates that all three sites overlies Bringelly Shale (Twib) described by fine to medium-grained quartz-lithic sandstone (see **Figure 2-1** below).
Soil Landscape	The New South Wales Department of Climate Change, Energy, the Environment and Water *eSPADE v2.2 Portal* (DCCEEW, 2026) indicates that all three sites overly the *Blacktown – Residual Landscape (bt).* This landscape is characterised by gently undulating rises on Wianamatta Group shales, including local relief to 30m, slopes >5%, broad rounded crests and ridges with gently inclined slopes. Soils are described as shallow to moderately deep hard setting mottled texture contrast soils, red and brown podzolic soils on crests grading to yellow podzolic soils on lower slopes and in drainage lines.
Acid Sulfate Soil (ASS) Risk	The sites are not classified within the *Liverpool Local Environmental Plan 2008* - Acid Sulfate Soil Planning Map. With reference to the Liverpool Acid Sulfate Soil Risk Map (1:25,000 scale; Murphy, 1997), the subject land lies within the map class description of 'no known occurrences'. The New South Wales Department of Climate Change, Energy, the Environment and

Attribute	Description
	Water *eSPADE v2.2 Portal* (DCCEEW, 2026) website indicates that the sites lie within an area of *No Known Occurrence.* Given the information above and the high elevation of the site, the potential presence of ASS is considered to be low. Note: A separate desktop Acid Sulfate Soil Assessment (ASSA) is being completed by EI concurrently to this assessment.
Nearest Surface Water Feature	Maxwells Creek within the riparian zone adjacent east of the site.
Groundwater Flow Direction	Groundwater was inferred to follow local topography in an easterly direction, towards the Bunbury Curran Creek and eventually discharging into Georges River (approximately 5.2 km east of the site).

Figure 2-1 Geological Setting (DPIRD, 2026)



2.4. Groundwater Bore Records and Local Groundwater Use

An online search for groundwater bores registered with WaterNSW was conducted on 28 October 2025 (Ref. https://realtimedata.waternsw.com.au/water.stm). There were no registered bores within a 500m radius of the site.

No beneficial use of groundwater was identified for the area; however, groundwater migrating from site is predicted to discharge into the adjacent creek system to the east and then ultimately into Georges River, which would then be exposed to recreational users of the water body.

2.5. Site Walkover Inspection

Observations were recorded during a site walkover on the 6 November 2025. These observations are summarised below and photographs taken during the inspection are presented in **Appendix C**. Site features are presented in **Figure A3**.

Site 3 – Lot 4-5 in DP 1275478

- The site was observed to slope to the east.
- The site was in use as a construction site office and equipment storage area for the adjacent construction site to the north at Lots 1-2 in DP 1275478 (**Photograph 1**, **2**).
- Grass and exposed soils (comprised of silty sand with shale fragments) covered the ground surfaces across the majority of the site. Some imported fill comprising concrete, aggregate and road base material was observed throughout the site (**Photograph 5**, **6**).
- Minor anthropogenic material (e.g. concrete, tile, plastic) was observed on ground surfaces throughout the site.
- Small stockpiles were observed within the central portion of the site which comprised of grass and silty sand topsoil (**Photograph 3**).
- Equipment was being stored on the north-western portion of the site (Lot 4) which included timber, metal scaffolding and shipping containers (**Photograph 4**).
- The sites immediately to the north were undergoing redevelopment into a multi-storey residential building and a cut-and-fill operation was occurring (**Photograph 7**).
- No evidence of an underground storage tank (UST) was observed on site.

Site 4 – Lot 6-7 in DP 1275478

- The site was observed to slope to the east.
- The site was vacant land with no structures evident. Temporary fencing surrounded the entire site (**Photograph 9**, **10**, **12**).
- A large stockpile area (approximately 15m x 15m x 1.5m high) comprised of several small stockpiles was observed within the central portion of the site (**Photograph 11**). It is understood that this material was imported from the adjacent site to the north-west (Lot 1-2 in DP 1275478). The stockpiles were segregated respective of their material types, which included:
  - Silty sand topsoil, with grass and roots, angular shale gravels, trace timber, tiles and concrete, no odour;
  - Gravelly clay, with shale cobbles and gravels, no odour; and
  - Shale gravels, cobbles and boulders.
- A large filling area was observed the eastern portion of the site (**Photograph 9**, **12**). The material was comprised of gravelly clay with an estimated depth ranging between 0.2 and 0.5 metres below ground level (mBGL). It is understood that the material is site won from the adjacent site to the north and was imported for site levelling purposes. See **Appendix E** for geotechnical descriptions of the site won material.
  - Minor anthropogenic material (e.g. plastic, concrete) was observed on the ground surfaces; however there were no other visual indicators of contamination.
- Concrete cobbles were observed on the southern and northern entrances to the site which were used as road base for vehicles (**Photograph 10**).
- A creek drainage line was observed adjacent to the southern boundary of the site. No water was observed (**Photograph 13**).
- A creek was observed within the riparian zone to the east of the site. Water was observed within the creek which was not flowing (**Photograph 14**, **15**).
- No evidence of an UST was observed on site.

Site 5 – Lot 8 in DP 1275478

- The site was observed to have no discernible slope.
- The site was vacant land with no structures evident (**Photograph 16**). Temporary fencing surrounded the northern and western boundaries of the site, while permanent fencing surrounded the southern and eastern boundaries.
- A sandstone block retaining wall was observed adjacent to the southern and eastern boundaries (**Photograph 17**, **18**). The height of the wall ranged between 0.5 and 2.5 m above ground level (AGL).
- Grass and exposed soils (comprised of silty sand with shale gravels) covered the ground surfaces across the majority of the site (**Photograph 16**, **17**, **20**).
    - Minor anthropogenic material (e.g. plastic, concrete) were observed on the ground surfaces however there were no other visual indicators of contamination.
- A creek was observed within the riparian zone to the east of the site (**Photograph 17**).
- Two sewer pits were observed in the northern portion of the site.
- No evidence of an UST was observed on site.

3. Site History and Searches

3.1. Lot Search

An environmental risk and planning report completed by Lotsearch (2025) was reviewed as part of this investigation, which included historical business directories, as well as searches of various environmental resources and plans archived by statutory authorities (**Appendix D**). A summary of the findings is detailed in **Table 3-1**.

Table 3-1 Lot Search Information Summary

Aspect	Details
Former Gasworks	There was no record of (former) gasworks within a 1 km radius of the site.
Waste Management	There was no record of National Waste Management facilities within a 1 km radius of the site.
National Liquid Fuel Facilities	No liquid fuel facilities were identified within a 1 km radius of the site.
PFAS Investigation and Management Programs	The site was not recognised as a PFAS assessment area. There were no records of PFAS Investigation programs within a 1 km radius of the site.
Defence Sites and Unexploded Ordnance	No Australian Department of Defence or Unexploded Ordnance Sites were within a 1 km radius of the site.
Contaminated Land	There were no sites identified in the List of NSW contaminated sites notified to EPA within a 1 km radius of the site.
Licenced Activities	There was one current organisation with licensed activities under the POEO Act 1997 recorded within 1 km radius of the site: ▪ Sydney Trains (railway systems activities) – 12 m south. There were 9 organisations with former licensed activities under the POEO Act 1997 recorded within 1 km radius of the site: ▪ Luhrmann Environment Management Pty Ltd (application of herbicides in waterways) – onsite. ▪ Robert Orchard (application of herbicides in waterways) – onsite. ▪ Liverpool City Council (application of herbicides in waterways) – onsite. ▪ Sydney Weed & Pest Management Pty Ltd (application of herbicides in waterways) – onsite. ▪ John Holland Pty Ltd (railway systems activities) – 12 m south. ▪ Burton Contractors Pty Ltd (crushing, grinding or separating) – 672 m south-east. ▪ Burton Contractors Pty Ltd (extractive activities) – 672 m south-east. ▪ Burton Contractors Pty Ltd (road construction) – 672 m south-east. ▪ Campbelltown City Council (application of herbicides in waterways) – 805 m south-east. Note: former application of herbicides within waterways noted as ‘onsite’, due to the presence of former creek/waterway lines in the greater area which intersected site boundaries.
NSP EPA Notices	There were no organisations with records of NSW EPA notices within a 1 km radius of the site.
Potentially Contaminating	No potentially contaminating activities or businesses were listed for the site or any site operating within a 1 km radius.

Aspect	Details
Businesses	
Mining	There was no current mining subsidence districts listed within a 1 km radius of the site, however there were 9 historical mining and exploration titles listed for the site: ▪ Australian Oil and Gas Corporation Ltd (petroleum) – onsite. ▪ The Australian Gas Light Company (AGL), North Bulli Collieries Pty Ltd (petroleum) – onsite. ▪ AGL Upstream Investments Pty Ltd (petroleum) – onsite. ▪ John Strevans NL (petroleum) – onsite. ▪ AGL Upstream Investments Pty Ltd (minerals) – onsite. ▪ Continental Oil Co of Australia Limited (minerals) – onsite. ▪ Gradient Energy Limited (minerals/geothermal) – onsite. ▪ Hot Rock Energy Pty Ltd, Longreach Oil Limited (minerals/geothermal) – onsite.
Other Datasets	▪ No tanks were within a 1 km radius of the site. ▪ The site is located within a porous, extensive aquifer of low to moderate productivity. ▪ Two water supply groundwater wells were identified within a 1 km radius of the site: ‣ GW115531 - functioning (901 m south-west). ‣ GW105200 – abandoned (1,273 m west). ▪ The site is located within an area of extremely low probability of acid sulfate soils. ▪ The site is located within an area of moderate to high potential of dryland salinity. ▪ The site is located within a State Significant Precinct in the *State Environmental Planning Policy (Precincts – Western Parkland City) 2021*. ▪ The southern portion of Lot 8 in DP 1275478 is situated within 'Vegetation Buffer' bush fire prone area and within a 40m distance from 'Vegetation Category 1'.

3.2. Historical Aerial Photograph Review

The historical aerial photographs reviewed as part of this PSI were obtained from on-line resources and included:

- 1950, 1961, 1970, 1978, 1986, 1998, 2002 and 2005: via Spatial Service NSW (https://portal.spatial.nsw.gov.au/portal/apps/sites/#/homepage/pages/map-viewers);
- 2005 to 2025: via Metromap.

A summary of the findings is given in **Table 3-2**.

Table 3-2 Summary of Aerial Photograph Observations

Year	Onsite Land Use	Adjacent Land Use
1950	The site was vacant with dirt roads/pathways and minor vegetation.	**North** – Vacant and agricultural land; **East** – Creek system, followed by vacant land; **South** – Vacant land, followed by woodland area and Ingleburn Army Camp; **West** – Vacant land.
1961	No significant change in imagery.	**North** – No significant change in imagery; **East** – No significant change in imagery; **South** – No significant change in imagery; **West** – No significant change in imagery.

Year	Onsite Land Use	Adjacent Land Use
1970	No significant change in imagery.	**North** – No significant change in imagery; **East** – No significant change in imagery; **South** – No significant change in imagery; **West** – Significant earthworks is observed.
1978	No significant change in imagery.	**North** – No significant change in imagery; **East** – No significant change in imagery; **South** – No significant change in imagery; **West** – Earthworks covers a larger area.
1986	Two dirt roads were more clearly visible connecting to the earthworks to the north.	**North** – Earthworks and dirt roads; **East** – No significant change in imagery; **South** – No significant change in imagery; **West** – No significant change in imagery;
1998	No significant change in imagery.	**North** – Earthworks is less apparent and dirt roads remain. **East** – No significant change in imagery; **South** – No significant change in imagery; **West** – Earthworks is less apparent and dirt roads remain. Residential buildings on the west side of Zouch Road have been constructed.
2005	No significant change in imagery.	**North** – No significant change in imagery; **East** – No significant change in imagery; **South** – Some Ingleburn Army Camp buildings have been removed; **West** – No significant change in imagery.
2011	No significant change in imagery.	**North** – No significant change in imagery; **East** – No significant change in imagery; **South** – No significant change in imagery; **West** – No significant change in imagery.
2014	No significant change in imagery.	**North** – Further tree clearing. **East** – The Edmondson Park Train Station and roadways are undergoing development. **South** – Railway tracks are constructed adjacent to the southern boundary. **West** – Further tree clearing.
2016	No significant change in imagery.	**North** – Increased residential development. **East** – Edmondson Park Train Station is constructed. **South** – Railway tracks are constructed adjacent to the southern boundary. **West** – Increased residential development.
2019	Land development with stockpiles present on Lots 4-7 in DP 1275478.	**North** – Increased residential development. St Francis Catholic College is constructed. **East** – No significant change in imagery; **South** – No significant change in imagery; **West** – Stockpiles are presented adjacent to the western boundary. Increased residential development.

Year	Onsite Land Use	Adjacent Land Use
2021	Additional stockpiles are present on Lots 4-8 in DP 1275487.	**North** – Stockpiles are presented adjacent to the northern boundary. **East** – Buchan Avenue and additional train station car parking is constructed. **South** – No significant change in imagery; **West** – No significant change in imagery.
2023	No significant change in imagery.	**North** – Filling is observed to the area north of the site; **East** – No significant change in imagery; **South** – No significant change in imagery; **West** – Edmondson Park Pre School is constructed.
2024	The site is completely levelled with fill material in preparation for new site development.	**North** – Site levelling for new site development; **East** – Land development activity to the east of the creek; **South** – No significant change in imagery; **West** – No significant change in imagery.
2025	New road is constructed in between Lots 4-5 and Lots 6-7.	**North** – New roads and lots are constructed; **East** – No significant change in imagery; **South** – No significant change in imagery; **West** – Edmondson Park Primary School is undergoing construction.

3.3. Council Information

A request to access property files archived by Liverpool City Council was submitted on 28 October 2025. At the time of writing this report, a response from council was yet to be received. When records become available to EI, and if any potential contaminating sources are identified, an addendum to this report will be prepared. Based on the information obtained during this investigation, it is not expected that the lack of data would impact the assessment.

3.4. NSW EPA Online Records

Searches of public registers maintained by the NSW EPA for statutory notices and licensing agreements issued under the *Contaminated Land Management Act 1997* (CLM Act 1997) and *Protection of the Environment Operations Act 1997* (POEO Act 1997) were conducted by EI for this PSI.

Record of Notices Under Section 58 of CLM Act 1997

An on-line search of the contaminated land public record was conducted on 31 October 2025. The contaminated land public record is a searchable database of:

- Orders made under Part 3 of the CLM Act 1997;
- Notices available to the public under Section 58 of the CLM Act 1997;
- Approved voluntary management proposals under the CLM Act 1997 that have not been fully carried out and where the approval of the EPA has not been revoked;
- Site audit statements provided to the EPA under Section 53B of the CLM Act 1997 that relate to significantly contaminated land;
- Where practicable, copies of anything formerly required to be part of the public record; and
- Actions taken by the EPA under Section 35 or 36 of the *Environmentally Hazardous Chemicals Act 1985* (EHC Act 1985).

The search confirmed that neither the site nor the surrounding lands within close proximity (≤500 m) were subject to any regulatory notices relevant to the above legislations.

List of NSW Contaminated Sites Notified to EPA

A search through the *List of NSW Contaminated Sites Notified to the EPA* under Section 60 of the CLM Act 1997 was conducted on 31 October 2025. This list is maintained by the NSW EPA and includes properties on which contamination has been identified, but not deemed to be impacted significantly enough to warrant regulation.

The search confirmed that the site or surrounding sites within close proximity (≤500 m) had not been notified as contaminated to the NSW EPA.

POEO Public Register

A search of the *Protection of the Environment Operations Act 1997* public register was conducted on 31 October 2025. This register contains records relating to environmental protection licences, applications, notices, audits, pollution studies and reduction programs.

The search confirmed that neither the site nor the surrounding lands within close proximity (≤500 m) were subject to any licensing agreements / notices / programs relevant to the above legislation.

4. Conceptual Site Model

In accordance with the NEPC (2013) *Schedule B2 - Guideline on Site Characterisation*, a CSM was developed as part of the contamination appraisal, which assessed plausible linkages between potential contamination sources, migration pathways and receptors. It is hereby presented, taking into account the findings from the historical search information.

4.1. Summary of Site History

Based on the available historical information (**Sections 2** and **3**), the site has been vacant, agricultural (potentially) land with no evidence of human activity up until 2019 when the construction of the new residential estate began development.

Aerial imagery showed that stockpiles were present within Lots 4-7 from 2019 to 2023, which were understood to be materials sourced from adjacent lots. Roads were also constructed adjacent to the site during this period. The sites are currently used as site offices, stockpiles storage areas for nearby construction sites. Filling was observed within the eastern portion of Site 4; which is understood to be site won material from the adjacent lot to the north and was imported for site levelling purposes.

Where application of herbicides within waterways was noted as ‘onsite’ as part of the Lotsearch report, it is due to the presence of former creek/waterway lines in the greater area, which intersected site boundaries. The risk of contaminating activities from herbicides is considered low.

The surrounding areas were predominately vacant up until 2014 when residential redevelopment within Edmondson Park increased. No historical or existing potentially contaminating activities were identified close proximity (≤500 m) to the site.

4.2. Predicted Subsurface Conditions

Based on relevant soil landscape information (**Section 2.3**) and previous investigations completed by EI within close proximity to the site, the inferred subsurface profile expected at the site is shown in **Table 4-1**.

Table 4-1 Subsurface Conditions

Unit	Material	Comment
1	Fill	Silty SAND; topsoil soils.
		Gravelly CLAY; imported soils from neighbouring sites.
2	Residual Soils	Silty CLAY; with shale gravels.
3	Shale	Bringelly Shale is expected to be initially of very low strength and distinctly weathered, with the strength generally increasing and weathering generally decreasing with depth.
4	Groundwater	The depth to groundwater is inferred to be between 3.0 – 6.0 mBGL, based on previous investigations within the vicinity of the site. Groundwater is inferred to flow east towards the adjacent tributary creek system.

4.3. Potential Contamination Sources

Historical / Current Land Use

Initial assessment indicated that there was potential for contamination to exist on the site, derived from the following sources:

- Imported site won fill materials from neighbouring sites (used to grade building areas);
- Stockpiles of material from neighbouring sites;
- Former on-site agricultural activities, including the application of fertilisers and/or pesticides;
- Potential groundwater migration of contaminants from off-site sources and deposition in creek sediments; and
- Leakage from vehicles.

Emerging Chemicals

The NSW EPA uses Chemical Control Orders (CCOs) as a primary legislative tool under the *Environmentally Hazardous Chemicals Act 1985* to manage chemicals of concern and limit their potential impact on the environment. Considerations for chemicals controlled by CCOs, and other potential emerging chemicals, are outlined in **Table 4-2**. In this instance, the potential for an emerging chemical of concern to be present on-site was deemed low, with the exceptions of PCB and pesticides (in near-surface fill).

Table 4-2 Potential for Contamination by an Emerging or Controlled Chemical

Chemicals of Concern (CCO or emerging)	Decision
Were aluminium smelter wastes used or stored on site (CCO, 1986)?	No
Do dioxin contaminated wastes (CCO, 1986) have the potential to impact the site? [1]	No
Were organotin products (CCO, 1989) used or stored on site? [2]	No
Were polychlorinated biphenyls (PCBs) used or PCB wastes (CCO, 1997) stored on-site? [3]	No
Were scheduled chemical or wastes (CCO, 2004) used or stored? [4]	Possibility for pesticides to have been used during previous agricultural use
Are other emerging chemicals suspected? [5]	No
If Yes to any questions, has site sampling suite been optimised to include sampling for these chemicals of concern?	Yes

Note 1 From burning of certain chemicals, smelting or chemical manufacturing or fire on or near the site.
Note 2 From anti-fouling paints used or removed at boat and ship yards and marinas.
Note 3 From older transformer oils and electrical capacitors
Note 4 Twenty-four mostly organochlorine pesticides and industrial by-products
Note 5 Other chemicals considered as emerging (e.g. 1,4 dioxane; associated with some CVOC).

Per- and Poly- Fluoroalkyl Substances (*PFAS) Assessment*

NSW EPA (2017) requires that PFAS are considered when investigating land contamination. An assessment of the probability for PFAS occurrence is provided in **Table 4-3**. This was based on considerations outlined in the *PFAS National Environmental Management Plan* (HEPA, 2025) and the EnRisk (2016) decision tree. In this instance, the potential for PFAS to be present on-site was considered to be low and PFAS sampling / analysis of soil and water was deemed unwarranted.

Table 4-3 Potential for PFAS Contamination

Preliminary Screening	Probability of Occurrence[1]
Is the past or present site activity listed in HEPA (2025)[2] as being an activity associated with PFAS contamination? If so, list activity.	L
Is the past or present off-site activity up-gradient or adjacent to the site listed in HEPA (2025)[2] as being an activity associated with PFAS contamination? If so, list activity.	L
Did fire training involving the use of suppressants occur on-site between 1970 and 2010?	L
Did fire training occur upgradient of or adjacent to the site between 1970 and 2010?[3]	L
Have "fuel" fires ever occurred on-site between 1970 and 2010? e.g. ignition of fuel (solvent, petrol, diesel, kero) tanks	L
Have PFAS been used in manufacturing or stored on-site?[4]	L
Could PFAS have been imported to the site in fill material from a site with activity listed in HEPA (2025)?	L
Could PFAS-contaminated groundwater or run-off have migrated on to the site?	L
Is the site or adjacent sites listed in the NSW EPA PFAS Investigation Program?[5]	L
If the probability is medium or high in any of the rows, does the site analytical suite need to be optimised to include sampling and testing for PFAS in soil (including ASLP testing) and waters?	No

Note 1 Probability: L – low (documentation has been reviewed and there is no recorded instance or compelling rationale), M – moderate (documentation has been reviewed and there is potential for an instance with compelling rationale); H – high (all documentation has been reviewed and there is strong evidence of a recorded instance)

Note 2 Activities listed in Appendix C of HEPA (2025). Refer also to https://www.oecd.org/env/ehs/risk-management/PFC_FINAL-Web.pdf

Note 3 Runoff from up-gradient PFAS use may impact surface water, soil, sediment and groundwater

Note 4 PFAS used in wide range of industrial processes and consumer products, including the manufacture of non-stick cookware, specialised garments and textiles, Scotchguard™ and similar products (used to protect fabric, furniture, leather and carpets from oils and stains), metal plating and in fire-fighting foams (https://www.nicnas.gov.au/chemical-information/factsheets/chemical-name/perfluorinated-chemicals-pfas)

Note 5 https://www.epa.nsw.gov.au/your-environment/contaminated-land/pfas-investigation-program

4.4. Potential Contaminants

The potential contaminants the site was considered to be:

- Priority Metals (PM) - arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc;
- Total Recoverable Hydrocarbons (TRHs);
- The monocyclic aromatic hydrocarbons benzene, toluene, ethylbenzene, xylenes (BTEX);
- Polycyclic Aromatic Hydrocarbons (PAHs);
- Organochlorine and Organophosphorus Pesticides (OCPs / OPPs); and
- Asbestos.

4.5. Qualitative Risk Assessment

A qualitative assessment of the potential risks for the site relating to the identified sources of contamination is summarised in **Table 4-4**.

Table 4-4 Assessment of Potential Contamination

Potential Source	Impacted Medium	Potential Contaminants	Risk of Contamination
Importation of fill from neighbouring sites	Near-surface soil (≤1 mBGL)	PM, TRH, BTEX, PAH, OCP, OPP, asbestos	**Low** Filling material used for site levelling purposes. The material is understood to be site won from neighbouring sites and described as residual gravelly clay. The risk of contamination is considered to be low.
Stockpiles comprised of materials from neighbouring sites	Near-surface soil (≤1 mBGL)	PM, TRH, BTEX, PAH, OCP, OPP, asbestos	**Low** Stockpiles were observed at Site 4 which was understood to be material originating from the neighbouring site to the north. The risk of contamination is considered to be low.
Application of pesticides	Near surface soil (building footing areas)	PM (arsenic and copper), OCP, OPP	**Low** If present, likely to be limited to shallow soils.
Leakage from vehicles	Near surface soil	PM (lead), TRH, BTEX, PAH	**Low** If present, likely to be limited to shallow soils.
Potential groundwater migration of contaminants from off-site sources and deposition in creek sediments	Soil Groundwater	PM, TRH, BTEX, PAH, OCP, OPP	**Low** No nearby sources of potentially contaminating activities were identified within close proximity to the site.

A summary of the CSM, including complete or potentially complete source-pathway-receptor (SPR) linkages is presented in **Table 4-5**.

4.6. Potential Receptors

The following potential receptors of site contamination were identified:

- Future site users;
- On-site demolition, excavation and construction workers (during future redevelopment);
- Users of the adjacent land (during future redevelopment and future intrusive works);
- Ecological receptors in areas of exposed soil / landscaping;
- Downgradient ecological receptors within adjacent creek system to the east.

4.7. Uncertainties & Data Gaps

The CSM derived for the site was used to qualitatively assess the risks posed to site receptors as a result of complete or potentially complete exposure pathways that may exist within the site. Uncertainties and data gaps remaining for the site were considered to be:

- The chemical condition of surficial soil materials, which are likely sourced from imported site won natural materials and/or cut-and-fill activities of natural materials from nearby developments.
- A search of property files archived by Liverpool City Council has been applied for; however a response has yet to be received.

Based on the information obtained during this investigation, it is not expected that these data gaps would impact the assessment.

Table 4-5 Summary of the CSM

Potential Source	Impacted Media	Contaminants of Potential Concern	Transport mechanism	Exposure pathway	Potential receptor	Source-Pathway-Receptor (SPR) Linkage
Importation of fill of unknown origin and quality Stockpiles comprised of materials from neighbouring sites Application of pesticides Leakage from vehicles Potential groundwater migration of contaminants from off-site sources and deposition in creek sediments	Soil	PM, TRH, BTEX, PAH, OCP, OPP and asbestos	Disturbance of surface and subsurface soils during site redevelopment, future site maintenance and future use of the site post redevelopment	Ingestion Dermal contact Inhalation of particulates	Current and future site users Demolition / construction workers Adjacent site users Future intrusive workers	**Potentially complete.** However, the use of personal protective equipment (PPE) is mandatory for construction workers.
			Atmospheric dispersion from soil to outdoor and indoor air spaces			
			Volatilisation of contamination from soil and diffusion to indoor air spaces.	Inhalation of vapours		
		PM, TRH, BTEX, PAH, OCP and OPP	Roots absorption of bioavailable compounds from impacted soils.	Biota uptake	Ecological receptors in areas of exposed soil/landscaping	**Potentially complete.** Building footprints cover the majority of the site with limited deep soil zones proposed.
	Groundwater	Dissolved PM, TRH, BTEX and PAH, OCP and OPP	Volatilisation of contamination from groundwater to indoor or outdoor air spaces (onsite and offsite)	Inhalation of vapours	Current and future site users Demolition / construction workers Adjacent site users Future intrusive workers	**Potentially complete.** However, the use of personal protective equipment (PPE) is mandatory for construction workers.
			Disturbance of surface soils during site redevelopment, future site maintenance and future use of the site post redevelopment	Ingestion Dermal contact	Demolition / construction workers Future intrusive workers	
			Migration of dissolved phase impacts in groundwater via diffusion and advection	Biota uptake	Tributary creek system	**Potentially complete.** Tributary creek system is located adjacent east to the site.

5. Conclusion

The site identified as 4-5, 6-7 and 8 Buchan Avenue, Edmondson Park NSW 2097 was the subject of a PSI, with the main objective of appraising the potential for contamination. The key findings of this PSI were as follows:

- Based on the available historical information, the sites were vacant, agricultural (potentially) land with no evidence of human activity up until 2019 when the construction of the new residential estate began development.
- The surrounding areas were predominately vacant up until 2014 when residential development within Edmondson Park increased. No historical or existing potentially contaminating activities were identified close proximity (≤500 m) to the site.
- Aerial imagery showed that stockpiles were present within Sites 3 and 4 (Lots 4-7) from 2019 to 2023. Stockpiles were observed at Site 4 (Lots 6-7) during the site walkover inspection and were described as a combination of silty sand topsoil (with grass and rootlets), gravelly clay (with shale cobbles and gravels) and shale gravels, cobbles and boulders.
    - It is understood that this is excavated material from neighbouring developments. No visual indicators of contamination were observed.
- During the site walkover inspection, it was evident that a filling operation had taken place on the eastern portion of Site 4. Based on an available Earthworks Report (ASCT, 2023) it is understood that this is also site won material from neighbouring developments; and was imported for site levelling purposes.
    - The site won material was described as silty gravelly clay with low to medium plasticity.
    - Minor anthropogenic material (e.g. plastic, concrete) were observed on the ground surfaces however there were no other visual indicators of contamination.
- Searches of the publicly available NSW EPA records indicated that:
    - The site (or for any properties within a 500m radius of the site) was free of statutory notices and licencing agreements issued under the *Contaminated Land Management Act 1997* and *Protection of the Environment Operations Act 1997*. No part of the property was included on the *List of NSW Contaminated Sites Notified to the EPA*.
    - There were no entries for the site (or for any properties within a 500m radius of the site) on the Protection of the Environment Operations (POEO) public register.
    - There was one current and nine former organisations with licensed activities under the Protection of the Environment Operations (POEO) Act 1997 recorded within a 500m radius of the site, including:
        - Sydney Trains (current, railway systems activities) – 12 m south;
        - John Holland Pty Ltd (former, railway systems activities) – 12 m south;
        - Luhrmann Environment Management Pty Ltd, Robert Orchard, Liverpool City Council, Sydney Weed & Pest Management Pty Ltd (former, application of herbicides in waterways) – onsite.
    - These activities are considered to be low risk of potential contamination migrating to the site.

- Based on regional soil landscape information and previous EI investigations of the area, the sub-surface conditions are expected to comprise a layer of silty sand filling (≤1m thickness); overlying natural, residual soils dominated by clay and then weathered shale bedrock.
- Based on local hydrographic features, groundwater flow direction is inferred to be to the east, towards the adjacent creek system.
- The CSM established that the site posed a low risk with respect to land contamination, derived from the following sources:
  - Imported site won fill materials from neighbouring sites (used to grade building areas);
  - Stockpiles of material from neighbouring sites;
  - Former on-site agricultural activities, including the application of fertilisers and/or pesticides;
  - Potential groundwater migration of contaminants from off-site sources and deposition in creek sediments; and
  - Leakage from vehicles.

Based on the findings of this PSI, and with consideration of EI's *Statement of Limitations* (**Section 7**), it was concluded that although there is a low potential for contamination to be present at the site. In accordance with *State Environmental Planning Policy (Resilience and Hazards) 2021*, EI considers the site suitable for its proposed redevelopment, subject to the implementation of the recommendations outlined in **Section 6**.

6. Recommendations

Site soils will require excavation and off-site disposal for the proposed basements (where applicable). As such, the following recommendations can be managed through the development consent process, in accordance with *State Environmental Planning Policy (Resilience and Hazards) 2021*. EI provides the following recommendations in relation to the future redevelopment of the site:

- In the absence of chemical data for imported material currently placed on the site (specifically the imported site won material and stockpiled material in Site 4), additional characterisation sampling should be completed to determine the site suitability of such materials (including stockpiles). Should such material be designated for off-site disposal (i.e. for basement construction), sampling and analysis should be completed in accordance with the NSW EPA Waste Classification Guidelines (NSW EPA, 2014). These works should be completed prior to construction commencing.
- A Construction Environmental Management Plan (CEMP) for the excavation, waste classification, and handling of all soils from the site should be developed. The CEMP should be prepared prior to the commencement of construction works, and in accordance with relevant Liverpool City Council DCPs and development consent conditions. The CEMP should include provisions for the management of waste soils including, but not limited to:
  - Typical concerns to take into consideration during development, such as, but not limited to, dust, noise, odour, vibration, safety and traffic;
  - Waste management of soils (including fill) to ensure that these are appropriately classified for disposal in accordance with NSW EPA (2014);
  - Unexpected Finds Protocols (UFP), should any unexpected contamination or hazardous materials are identified during the site earthworks.
- All soils designated for off-site disposal, including any *virgin excavated natural material* (VENM), should be managed in accordance with an appropriate waste management plan, ensuring that soils are appropriately classified for disposal in accordance with NSW EPA (2014).
- An UFP should be implemented in case any unexpected contamination or hazardous materials are identified during the site earthworks (an example is provided in **Appendix F**).

7. Statement of Limitations

This report has been prepared for the exclusive use of Urban Property Group Pty Ltd, whom is the only intended beneficiary of EI's work. The scope of the investigation carried out for the purpose of this report is limited to that agreed with Urban Property Group Pty Ltd.

No other party should rely on this document without the prior written consent of EI, and EI undertakes no duty, or accepts any responsibility or liability, to any third party who purports to rely upon this document without EI's approval.

EI has used a degree of care and skill ordinarily exercised in similar investigations by reputable members of the environmental industry in Australia, as at the date of this document. No other warranty, expressed or implied, is made or intended. Each section of this report must be read in conjunction with the whole of this report, including its appendices.

The conclusion presented in this report is based on a limited assessment of historical and current uses of the site. Due to the preliminary nature of this investigation, findings are not based on actual samples collected or testing conducted. EI has relied upon information provided by the client and other third parties to prepare this document, some of which could not be verified by EI due to the anecdotal or historical nature of the information.

EI's professional opinions are reasonable and based on its professional judgment, experience and training.

EI's professional opinions contained in this document are subject to modification if additional information is obtained through the data searches that have been initiated with government authorities.

Technical opinions may also be amended in the light of further investigation, observations, or validation testing and analysis during remedial activities. In some cases, further testing and analysis may be required, which may result in a further report with different conclusions.

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Appendix A - Figures



Camden Valley Way
Clement Road
Kingsbury Road
Solenso Lane
Peronne Road
Zeppelin Road
Hartlepool Road
Minnamurra Circuit
Bernera Road
Narooma Drive
Primary School
Geraldton Street
Soldiers Creek
Ash Road
Park
Dalmeny Drive
Beech Road
Okinawa Road
Caldwell Avenue
Ardennes Avenue
Normandy Road
Dalmatia Avenue
Muir Road
Diamond Hill Circuit
Tahana Hill Drive
Colenso Circuit
Browning Road
Burrows Avenue
Rynan Avenue
Dardanelles Road
Frontiers Road
Antwerp Avenue
Jardine Drive
SOUTH WEST RAILWAY
Cabramatta Creek
Buchan Avenue
Lacey Road
Sammarah Road
Vinny Road
Torino Road
Tanga Road
Edmondson Park
Wakeling Drive
Holliday Avenue
Gallipoli Drive
Faulkner Way
Learoyd Road
Somme Avenue
Passendale Road
Dunkirk Road
Poziers Road
Manchuria Road
Barbarosa Road
Changsha Road
Croatia Avenue
Arnhem Road
Aachen Road
Primary School
Jericho Road
Buchan Avenue
Horrie Road
Soldiers Parade
Corporal Street
Henderson Road
Sergeant Street
Macdonald Road
Farrell Street
Oxley Street
Campbelltown Road
Sister Haultain Avenue
Eather Avenue
Borneo Street
Infantry Lane
Eora Street
Alamein Street
Malaya Street
Bardia
Bardia Avenue
Bruce Ferguson Avenue
Paul Cullen Drive
Webber Circuit
Governors Way
Macquarie Links Drive
Macquarie Fields House
Bunbury Curran Creek
Roy Watts Road
Hume Motorway
Westlink M7
South Western Motorway
Cassidy Street
Culverston Avenue
Cubitt Drive
Pembury Close
Springmead Drive
Huntingdale Drive
Fox Valley Road
Eyre Avenue
Zouch Road
EDMONDSON RP
Denham Court Road
Kingdom Farm
Arthur Allen Drive
Signals Lane
Tempe Street
Brallos Street
Retimo Street

0 500 1,000 1,500 2,000 m

LEGEND **Note: All locations are approximate**

Site Location

eiaustralia
Practical Solutions for Built Environments
Suite 6.01, 55 Miller Street, PYRMONT 2009
Ph (02) 9516 0722 Fax (02) 9518 5088

Drawn:	S.N.
Approved:	
Date:	09/02/2026

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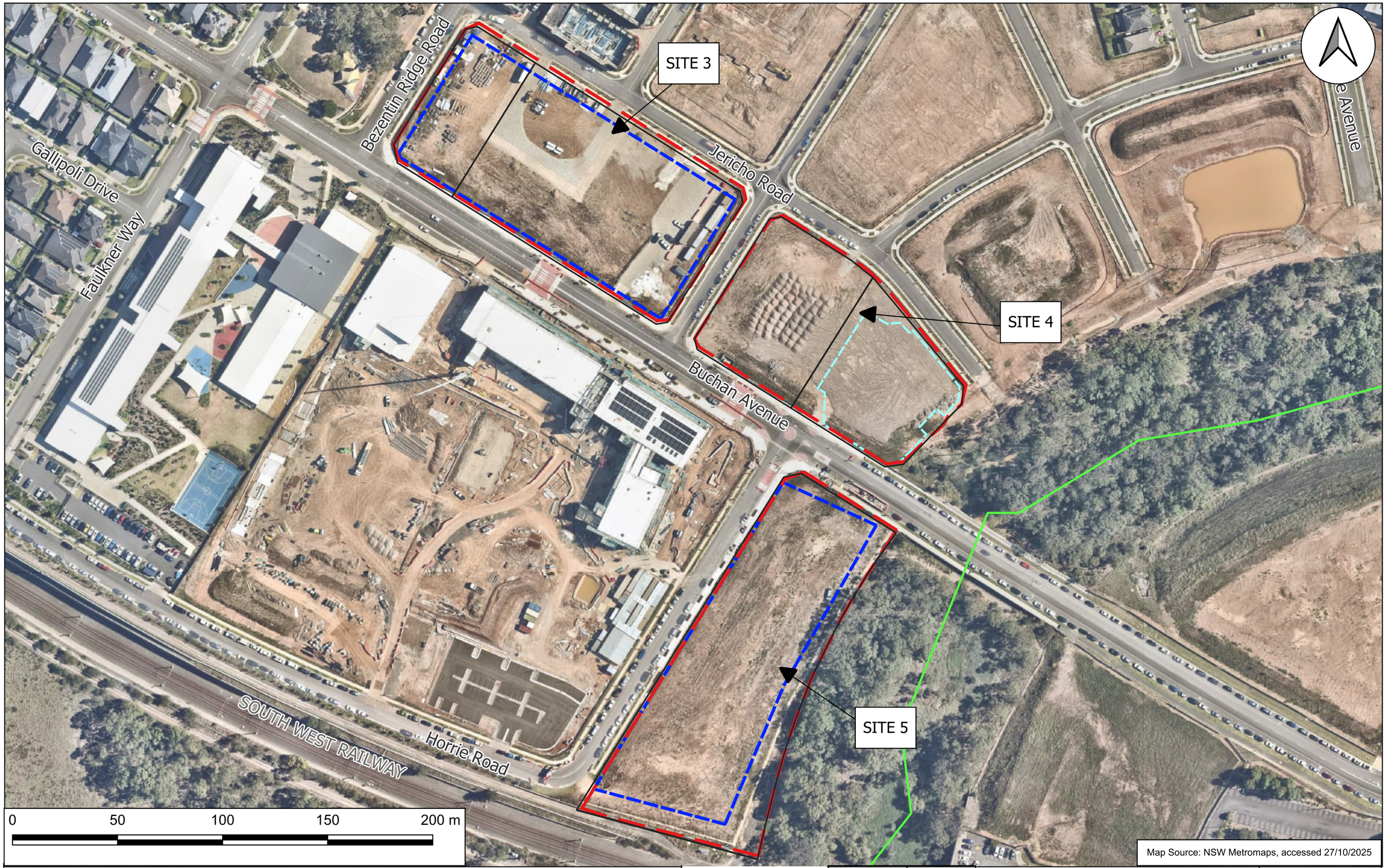
Preliminary Site Investigation

Lot 4-8 in DP 1275487, Edmondson Park NSW

Site Locality Plan

Figure: A1

Project: E26949.E01



Map Source: NSW Metromaps, accessed 27/10/2025

LEGEND Note: Areas are approximate

- Site boundary
- Proposed basement boundary
- Proposed lower ground floor boundary
- Lot boundary
- Creek

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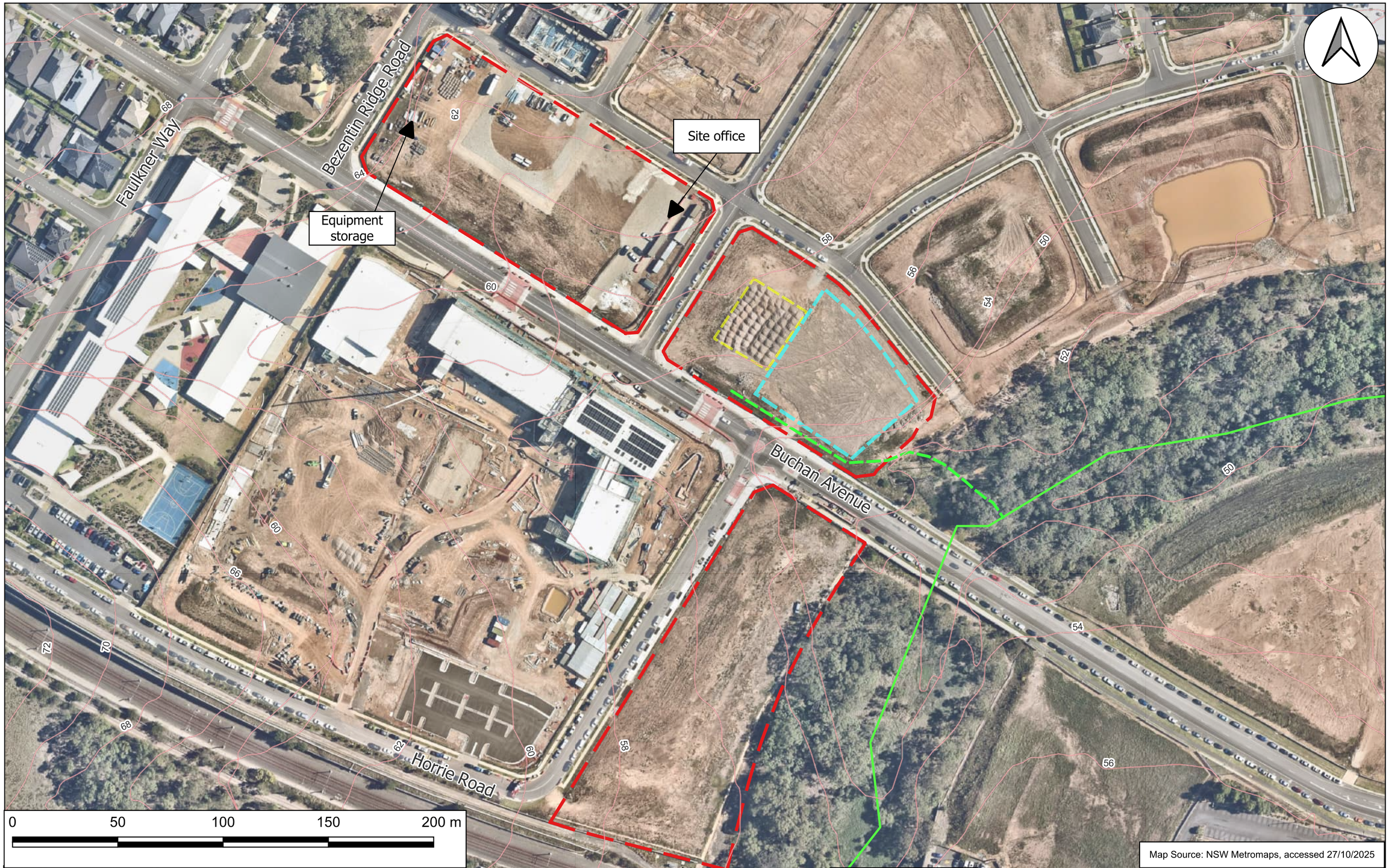
Preliminary Site Investigation

4-5, 6-7 & 8 Buchan Avenue, Edmondson Park NSW

Site, Lot and Basement Plan

Figure: A2

Project: E26949.E01



Map Source: NSW Metromaps, accessed 27/10/2025

LEGEND Note: Areas are approximate

- Site Boundary
- Ground surface elevation contour (mAHD)
- Creek
- Site 4 imported fill area
- Drainage line
- Site 4 stockpile area

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Preliminary Site Investigation

4-5, 6-7 & 8 Buchan Avenue, Edmondson Park NSW

Site Feature Plan

Figure: A3

Project: E26949.E01

Appendix B – Proposed Development Plans

DEVELOPMENT APPLICATION

SITE 03 EDMONDSON PARK
EDMONDSON PARK NSW 2174 AUSTRALIA

DEVELOPMENT SUMMARY

TOTAL SITE AREA: 11,641 sqm

ACHIEVED GFA: 42,928 sqm
NO. OF APARTMENTS: 491
CAR PARKING: 434



LAYOUT NUMBER	DRAWING NAME	REVISION
DA-0000 PRELIMINARIES		
DA-S3-0000	COVER SHEET	B
DA-S3-0001	EXISTING SITE PLAN	B
DA-S3-0002	SITE ANALYSIS	B
DA-S3-0003	PROPOSED SITE PLAN	B
DA-1000 GENERAL FLOOR PLANS		
DA-S3-0098	GENERAL FLOOR PLAN - BASEMENT 01	B
DA-S3-0099	GENERAL FLOOR PLAN - LOWER GROUND	B
DA-S3-1000	GENERAL FLOOR PLAN - UPPER GROUND	B
DA-S3-1001	GENERAL FLOOR PLAN - LEVEL 01	B
DA-S3-1002	GENERAL FLOOR PLAN - LEVEL 02	B
DA-S3-1003	GENERAL FLOOR PLAN - LEVEL 03	B
DA-S3-1004	GENERAL FLOOR PLAN - LEVEL 04-06	B
DA-S3-1007	GENERAL FLOOR PLAN - LEVEL 07	B
DA-S3-1008	GENERAL FLOOR PLAN - LEVEL 08	B
DA-S3-1009	GENERAL FLOOR PLAN - LEVEL 09	B
DA-S3-1010	GENERAL FLOOR PLAN - LEVEL 10	B
DA-S3-1011	GENERAL FLOOR PLAN - LEVEL 11	B
DA-S3-1012	GENERAL FLOOR PLAN - LEVEL 12-13	B
DA-S3-1015	GENERAL FLOOR PLAN - ROOF	B
DA-2000 ELEVATIONS		
DA-S3-2000	EAST ELEVATION	B
DA-S3-2001	WEST ELEVATION	B
DA-S3-2002	NORTH ELEVATION	B
DA-S3-2003	SOUTH ELEVATION	B
DA-S3-2004	INTERNAL NORTH ELEVATION	A
DA-S3-2005	INTERNAL SOUTH ELEVATION	A
DA-3000 SECTIONS		
DA-S3-3000	SECTIONS - SHEET 01	B
DA-S3-3001	SECTIONS - SHEET 02	B
DA-4000 SUN EYE VIEWS		
DA-S3-4000	SUN EYE VIEW - SHEET 01	B
DA-S3-4001	SUN EYE VIEW - SHEET 02	B
DA-4100 SHADOW DIAGRAMS		
DA-S3-4100	SHADOW DIAGRAMS - SHEET 01	B
DA-S3-4101	SHADOW DIAGRAMS - SHEET 02	B
DA-4200 SOLAR AMENITY DIAGRAMS		
DA-S3-4200	SOLAR AMENITY DIAGRAMS - SHEET 01	B
DA-S3-4201	SOLAR AMENITY DIAGRAMS - SHEET 02	B
DA-4300 CROSS VENTILATION DIAGRAM		
DA-S3-4300	CROSS VENTILATION DIAGRAM	B
DA-5000 AREA & AMENITIES DIAGRAM		
DA-S3-5000	GFA DIAGRAM - SHEET 01	B
DA-S3-5001	GFA DIAGRAM - SHEET 02	B
DA-S3-5002	OPEN SPACE CACULATION	B
DA-S3-5003	DEEP SOIL CALCULATION	B
DA-6000 TYPOLOGIES		
DA-S3-6000	TYPOLOGIES DIAGRAM - SHEET 01	B
DA-S3-6001	TYPOLOGIES DIAGRAM - SHEET 02	B
DA-7000 MATERIAL SCHEDULE		
DA-S3-7000	MATERIAL SCHEDULE - SHEET 01	B
DA-S3-7001	MATERIAL SCHEDULE - SHEET 02	B
DA-8000 PERSPECTIVES		
DA-S3-8000	PERSPECTIVE - SHEET 01	B
DA-S3-8001	PERSPECTIVE - SHEET 02	B

BASIX

TO BE UPDATED

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COVER SHEET

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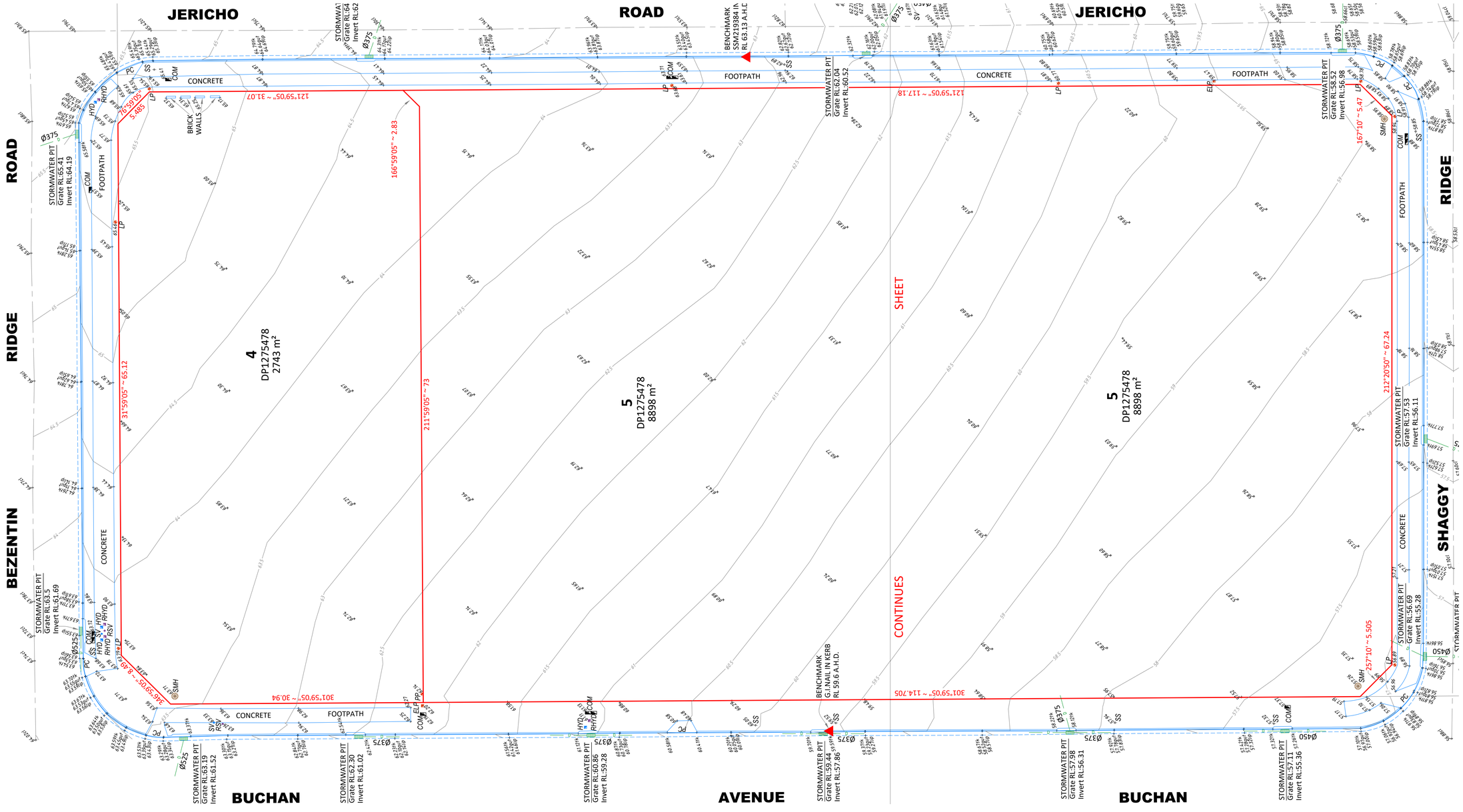
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01 9306 Detail Survey Issue A Lots 3-8 Buchan Ave Edmondson Park
\- SCALE: 1:250@A1

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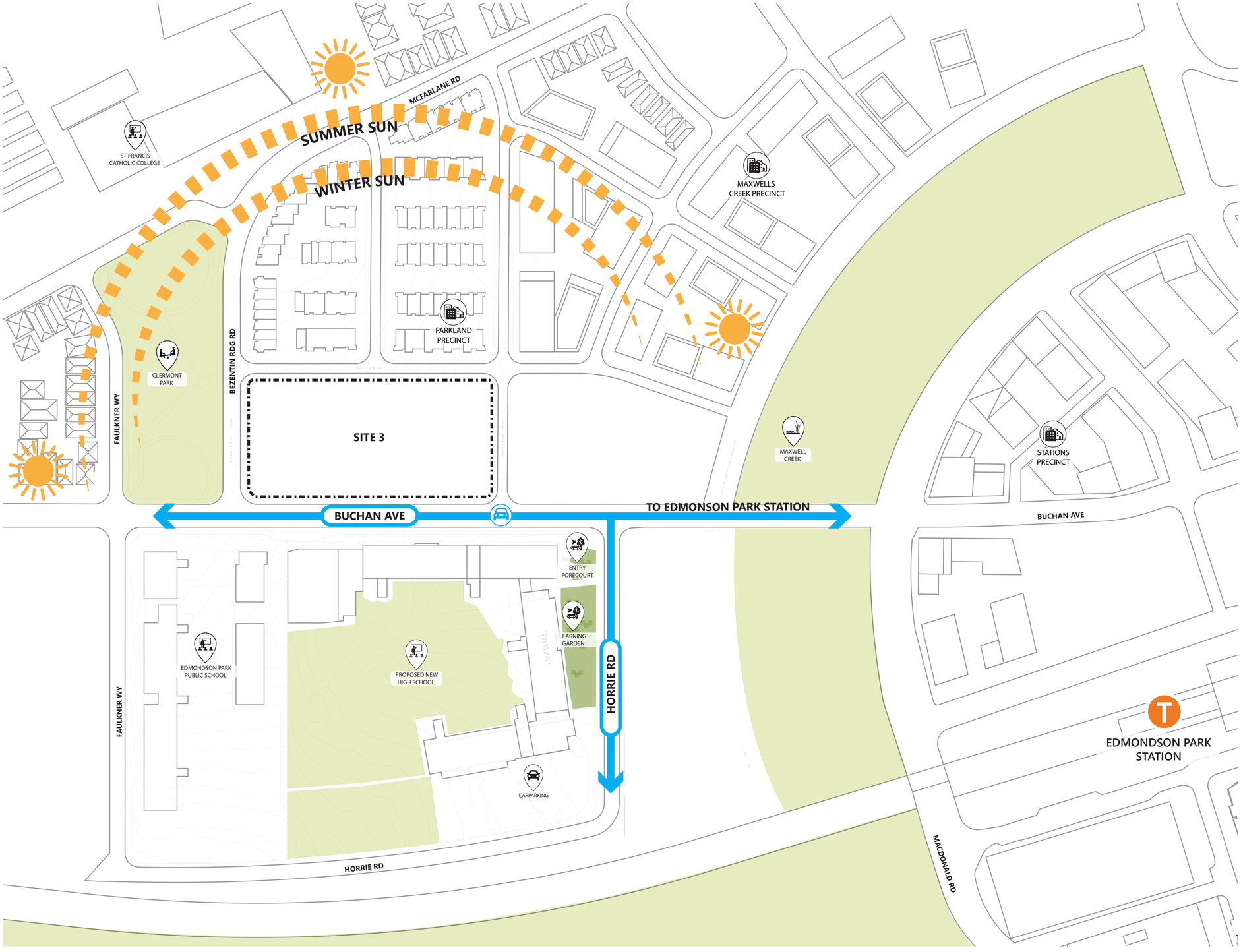
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01 SITE 03 ANALYSIS DIAGRAM
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01 SITE PLAN
- SCALE: 1:1000@A1

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01 BASEMENT 01
SCALE: 1:250@A1

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DRAWING TITLE
GENERAL FLOOR PLAN - BASEMENT 01

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01 - LOWER GROUND
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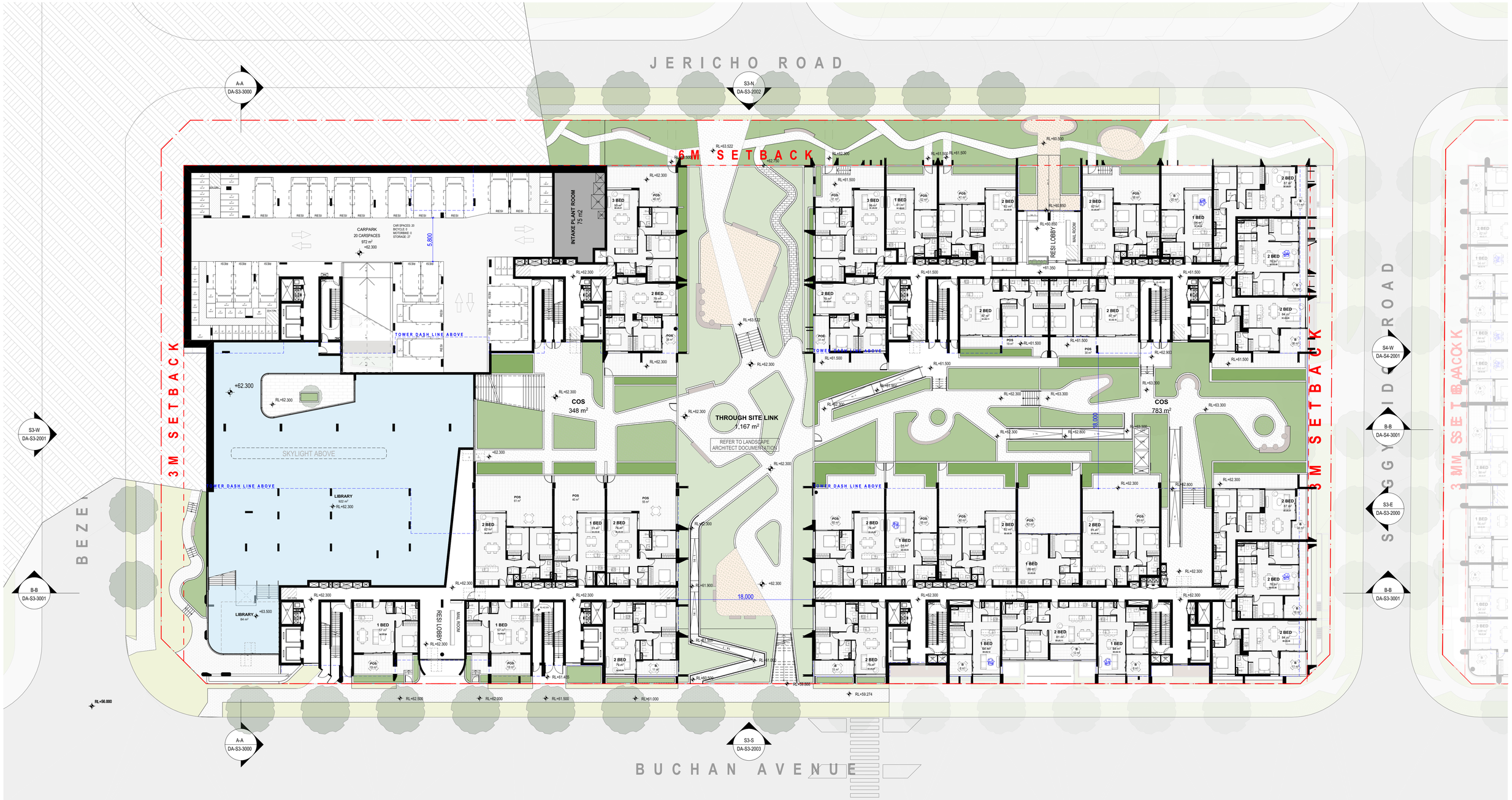
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01 UPPER GROUND
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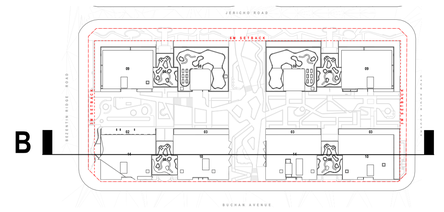
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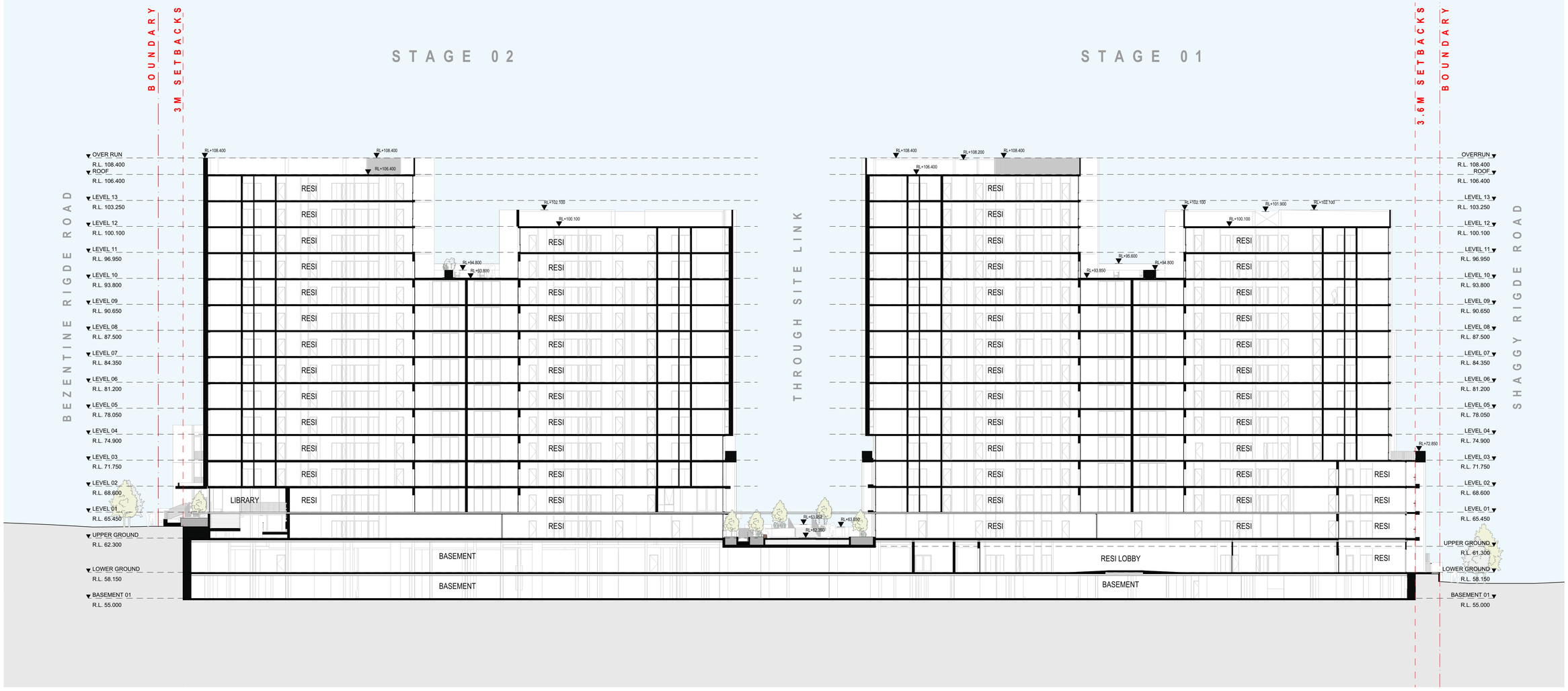
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B-B S3-SECTION B
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PROJECT TITLE
SITE 03,04&05
BUCHAN AVE, EDMONDSON PARK
2174

DRAWING TITLE
SECTIONS - SHEET 02

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MB	DC	

PROJECT NUMBER
20794

STAGE
DA

DRAWING NUMBER
DA-S3-3001

REVISION
B

DEVELOPMENT APPLICATION

SITE 04 EDMONDSON PARK
EDMONDSON PARK NSW 2174 AUSTRALIA

DEVELOPMENT SUMMARY

TOTAL SITE AREA: 8,219 sqm

ACHIEVED GFA: 43,842 sqm
NO.OF APARTMENTS: 447
CAR PARKING: 476



LAYOUT NUMBER	DRAWING NAME	REVISION
DA-0000 PRELIMINARIES		
DA-S4-0000	COVER SHEET	B
DA-S4-0001	SITE SURVEY (EXISTING SITE PLAN)	B
DA-S4-0002	SITE ANALYSIS	B
DA-S4-0003	PROPOSED SITE PLAN	B
DA-1000 GENERAL FLOOR PLANS		
DA-S4-0098	GENERAL FLOOR PLAN - LOWER GROUND	B
DA-S4-0099	GENERAL FLOOR PLAN - UPPER GROUND	B
DA-S4-1000	GENERAL FLOOR PLAN - LEVEL 01	B
DA-S4-1001	GENERAL FLOOR PLAN - LEVEL 02-04	B
DA-S4-1004	GENERAL FLOOR PLAN - LEVEL 05	B
DA-S4-1005	GENERAL FLOOR PLAN - LEVEL 06-14	B
DA-S4-1015	GENERAL FLOOR PLAN - LEVEL 15-25	B
DA-S4-1025	GENERAL FLOOR PLAN - ROOF	B
DA-2000 ELEVATIONS		
DA-S4-2000	EAST ELEVATION	B
DA-S4-2001	WEST ELEVATION	B
DA-S4-2002	NORTH ELEVATION	B
DA-S4-2003	SOUTH ELEVATION	B
DA-3000 SECTIONS		
DA-S4-3000	SECTIONS - SHEET 01	B
DA-S4-3001	SECTIONS - SHEET 02	B
DA-4000 SUN EYE VIEWS		
DA-S4-4000	SUN EYE VIEW - SHEET 01	B
DA-S4-4001	SUN EYE VIEW - SHEET 02	B
DA-4100 SHADOW DIAGRAMS		
DA-S4-4100	SHADOW DIAGRAMS - SHEET 01	B
DA-S4-4101	SHADOW DIAGRAMS - SHEET 02	B
DA-4200 SOLAR AMENITY DIAGRAMS		
DA-S4-4200	SOLAR AMENITY DIAGRAMS	B
DA-4300 CROSS VENTILATION DIAGRAM		
DA-S4-4300	CROSS VENTILATION DIAGRAM	B
DA-5000 AREA & AMENITIES DIAGRAM		
DA-S4-5000	GFA DIAGRAM	B
DA-S4-5001	OPEN SPACE CALCULATION	B
DA-S4-5002	DEEP SOIL CALCULATION	B
DA-6000 TYPOLOGIES		
DA-S4-6000	TYPOLOGIES DIAGRAM - SHEET 01	B
DA-S4-6001	TYPOLOGIES DIAGRAM - SHEET 02	B
DA-7000 MATERIAL SCHEDULE		
DA-S4-7000	MATERIAL SCHEDULE - SHEET 01	B
DA-8000 PERSPECTIVES		
DA-S4-8000	PERSPECTIVE - SHEET 01	B
DA-S4-8001	PERSPECTIVE - SHEET 02	B

BASIX

TO BE UPDATED

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REV	CKD	APP	STATUS	DATE
A	DC	MB	FOR SUBMISSION	19/12/2025
B	DC	MB	FOR SUBMISSION	30/1/2026

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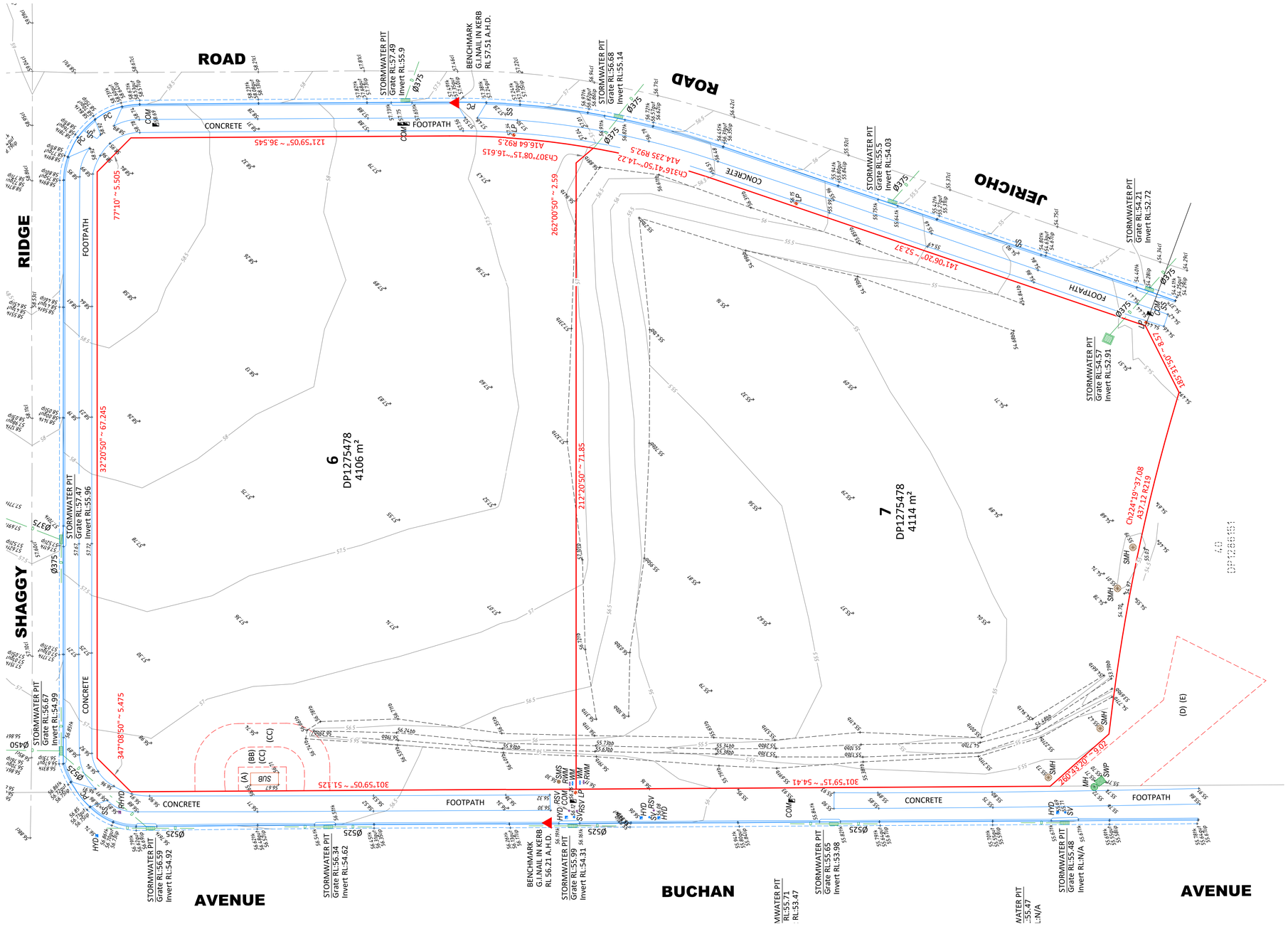
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BUCHAN AVE, EDMONDSON PARK
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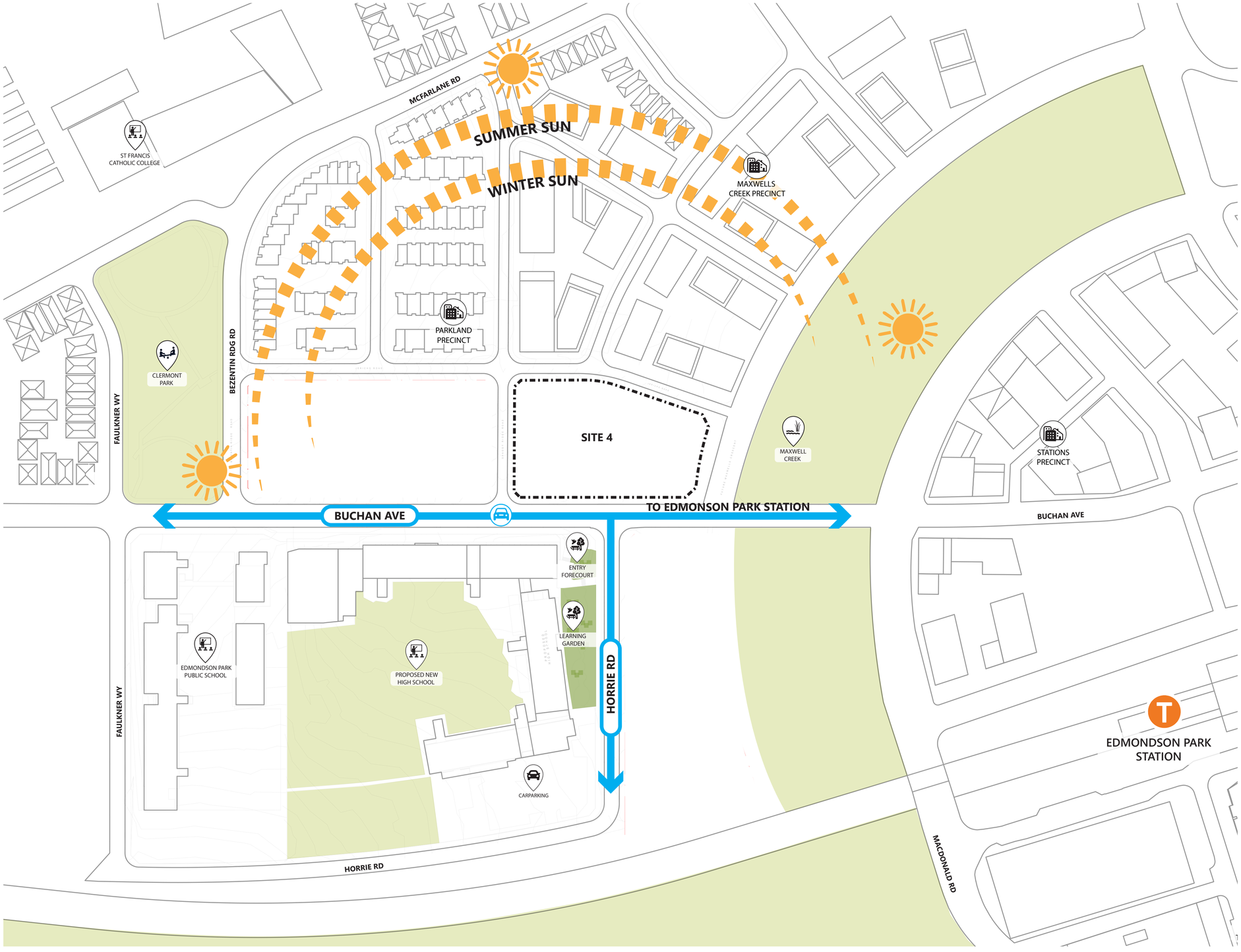
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MB	DC		DA-S4-0000	B	DA

PROJECT NUMBER
20794


ROAD
RIDGE
SHAGGY
JERICHO
BUCHAN
AVENUE
AVENUE
FOOTPATH
CONCRETE
FOOTPATH
CONCRETE
FOOTPATH
CONCRETE
FOOTPATH
CONCRETE
6
DP1275478
4106 m²
7
DP1275478
4114 m²
(D) (E)
BENCHMARK
G.I.NAIL IN KERB
RL 57.51 A.H.D.
BENCHMARK
G.I.NAIL IN KERB
RL 56.21 A.H.D.
STORMWATER PIT
Grate RL:57.49
Invert RL:55.9
STORMWATER PIT
Grate RL:56.68
Invert RL:55.14
STORMWATER PIT
Grate RL:55.5
Invert RL:54.03
STORMWATER PIT
Grate RL:54.21
Invert RL:52.72
STORMWATER PIT
Grate RL:54.57
Invert RL:52.91
STORMWATER PIT
Grate RL:56.67
Invert RL:54.99
STORMWATER PIT
Grate RL:57.27
Invert RL:55.96
STORMWATER PIT
Grate RL:56.59
Invert RL:54.92
STORMWATER PIT
Grate RL:56.34
Invert RL:54.62
STORMWATER PIT
Grate RL:55.99
Invert RL:54.31
STORMWATER PIT
Grate RL:56.65
Invert RL:53.98
STORMWATER PIT
Grate RL:55.48
Invert RL:N/A
121°59'05" ~ 36.545
77°10' ~ 5.505
32°20'50" ~ 67.245
262°00'50" ~ 2.59
212°20'50" ~ 71.85
347°08'50" ~ 5.475
301°59'05" ~ 51.125
301°59'15" ~ 54.41
20.6° ~ 20.607
185°31'50" ~ 8.57
141°06'20" ~ 52.37
A16.64 R92.5
CH307°08'15" ~ 16.615
CH316°41'50" ~ 14.22
A14.235 R92.5
Ch224°19" ~ 37.08
A37.12 R219
SMH
SMH
SMH



01 SITE 04 ANALYSIS DIAGRAM
SCALE: N.T.S.

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REV	CKD	APP	STATUS	DATE
A	DC	MB	FOR SUBMISSION	19/12/2025
B	DC	MB	FOR SUBMISSION	30/1/2026

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PROJECT TITLE
SITE 03,04&05
BUCHAN AVE, EDMONDSON PARK
2174

DRAWING TITLE
SITE ANALYSIS

CLIENT
URBAN PROPERTY GROUP
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APPROVED: MB
CHECKED: DC
DRAWN:

PROJECT NUMBER: 20794
STAGE: DA
DRAWING NUMBER: DA-S4-0002
REVISION: B



01 SITE PLAN
SCALE: 1:1000@A1

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REV	CKD	APP	STATUS	DATE
A	DC	MB	FOR SUBMISSION	19/12/2025
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DRAWING TITLE
PROPOSED SITE PLAN

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PROJECT NUMBER
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01 LOWER GROUND
- SCALE: 1:250@A1

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SITE 03,04&05
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DRAWING TITLE
GENERAL FLOOR PLAN - LOWER GROUI

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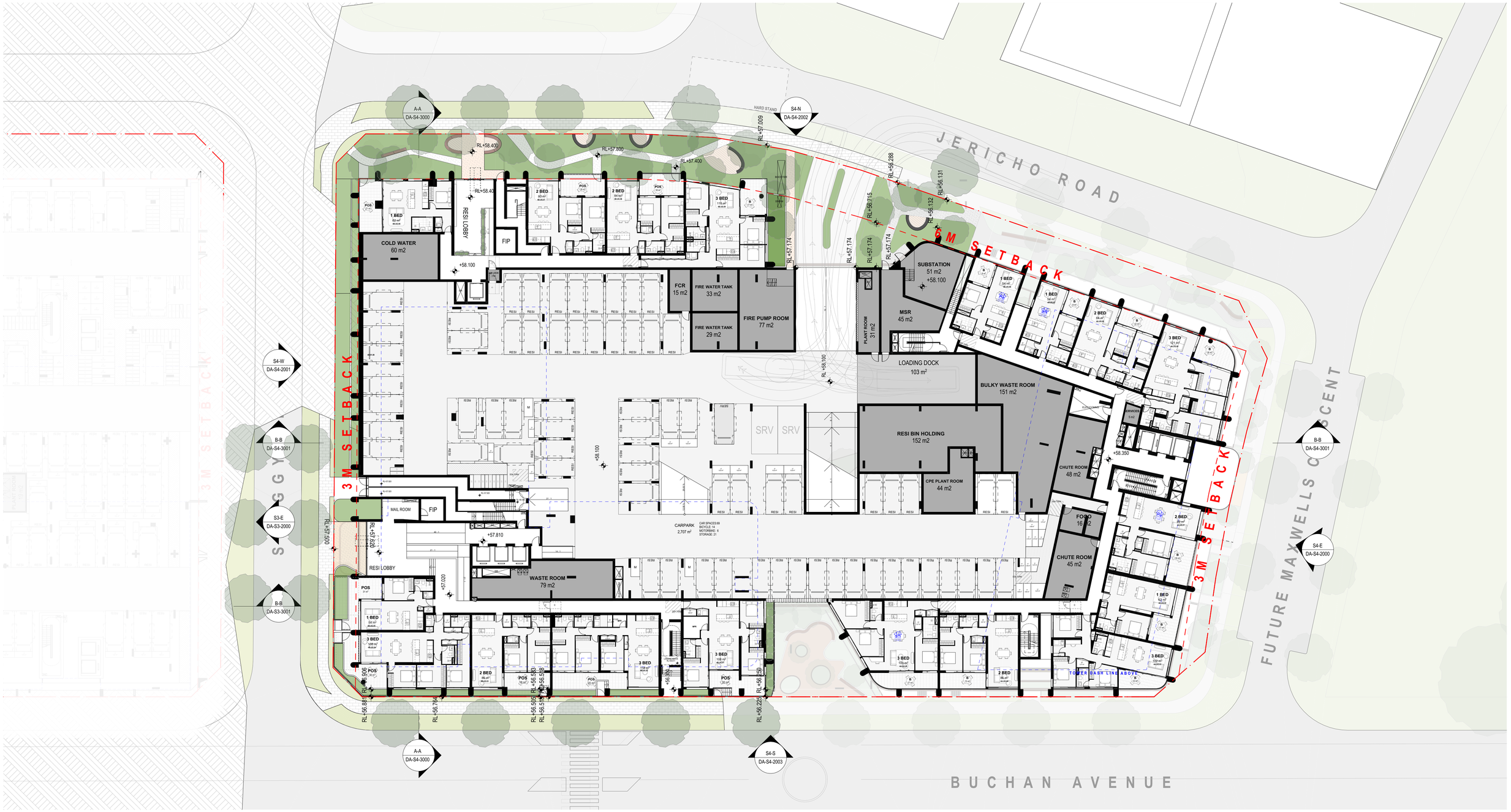
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DA-S4-0099

REVISION
B



01 GROUND
\- SCALE: 1:250@A1

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DRAWING TITLE
GENERAL FLOOR PLAN - UPPER GROUN

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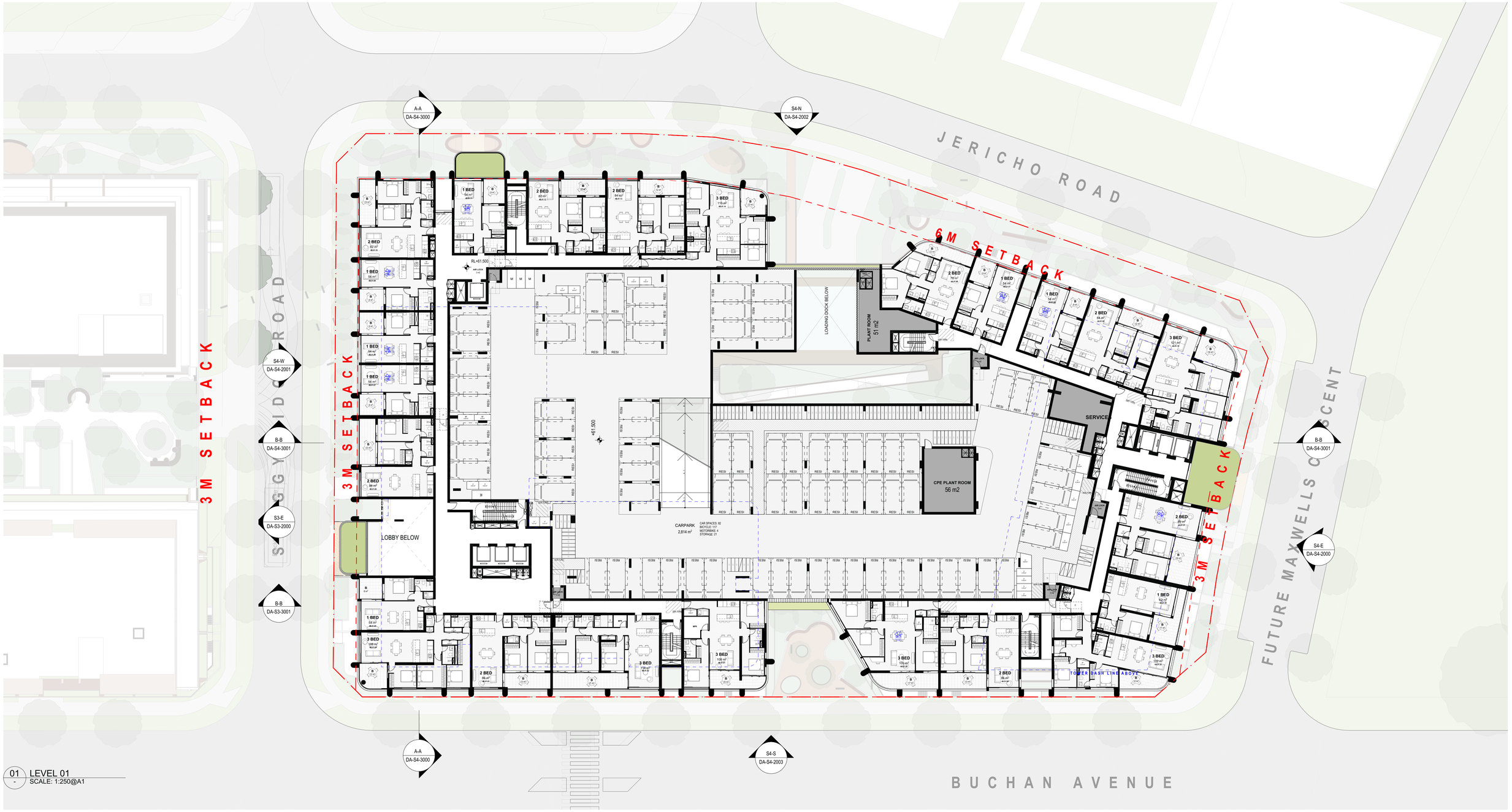
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PROJECT NUMBER
20794

DRAWING NUMBER
DA-S4-1000

STAGE
DA

REVISION
B



01 LEVEL 01
- SCALE: 1:250@A1

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REV	CKD	APP	STATUS	DATE
A	DC	MB	FOR SUBMISSION	19/12/2025
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DRAWING TITLE
GENERAL FLOOR PLAN - LEVEL 01

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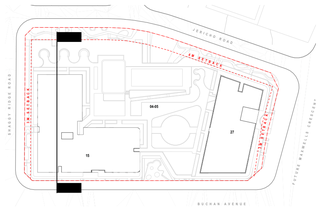
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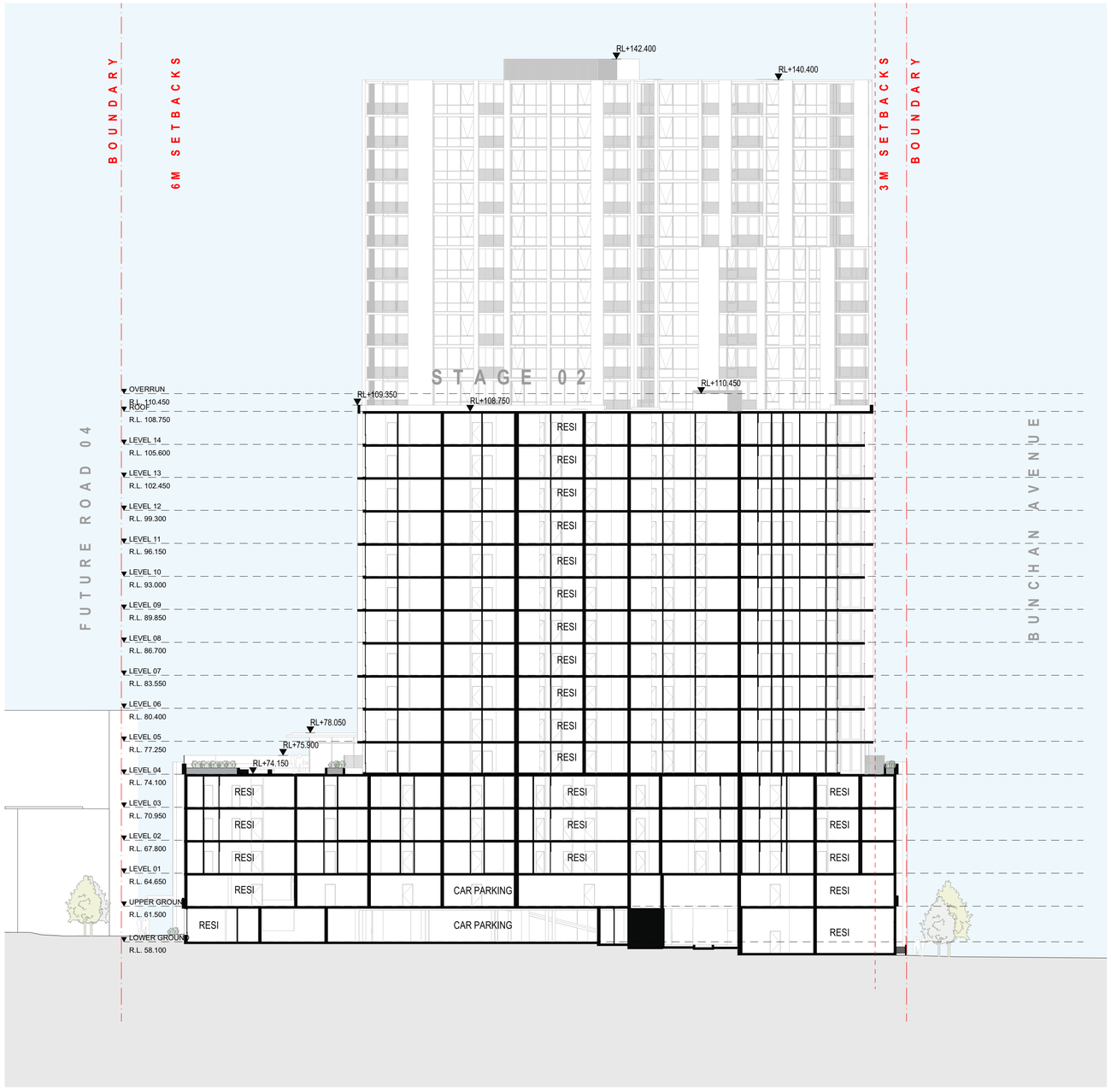
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DRAWING NUMBER
DA-S4-1001

REVISION
B





A-A / - S4-SECTION A
SCALE: 1:250@A1

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REV	CKD	APP	STATUS	DATE
A	DC	MB	FOR SUBMISSION	19/12/2025
B	DC	MB	FOR SUBMISSION	30/1/2026

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PROJECT TITLE
SITE 03,04&05
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DRAWING TITLE
SECTIONS - SHEET 01

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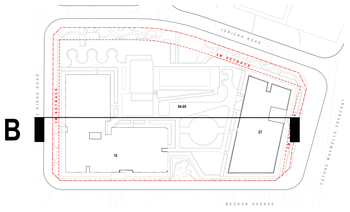
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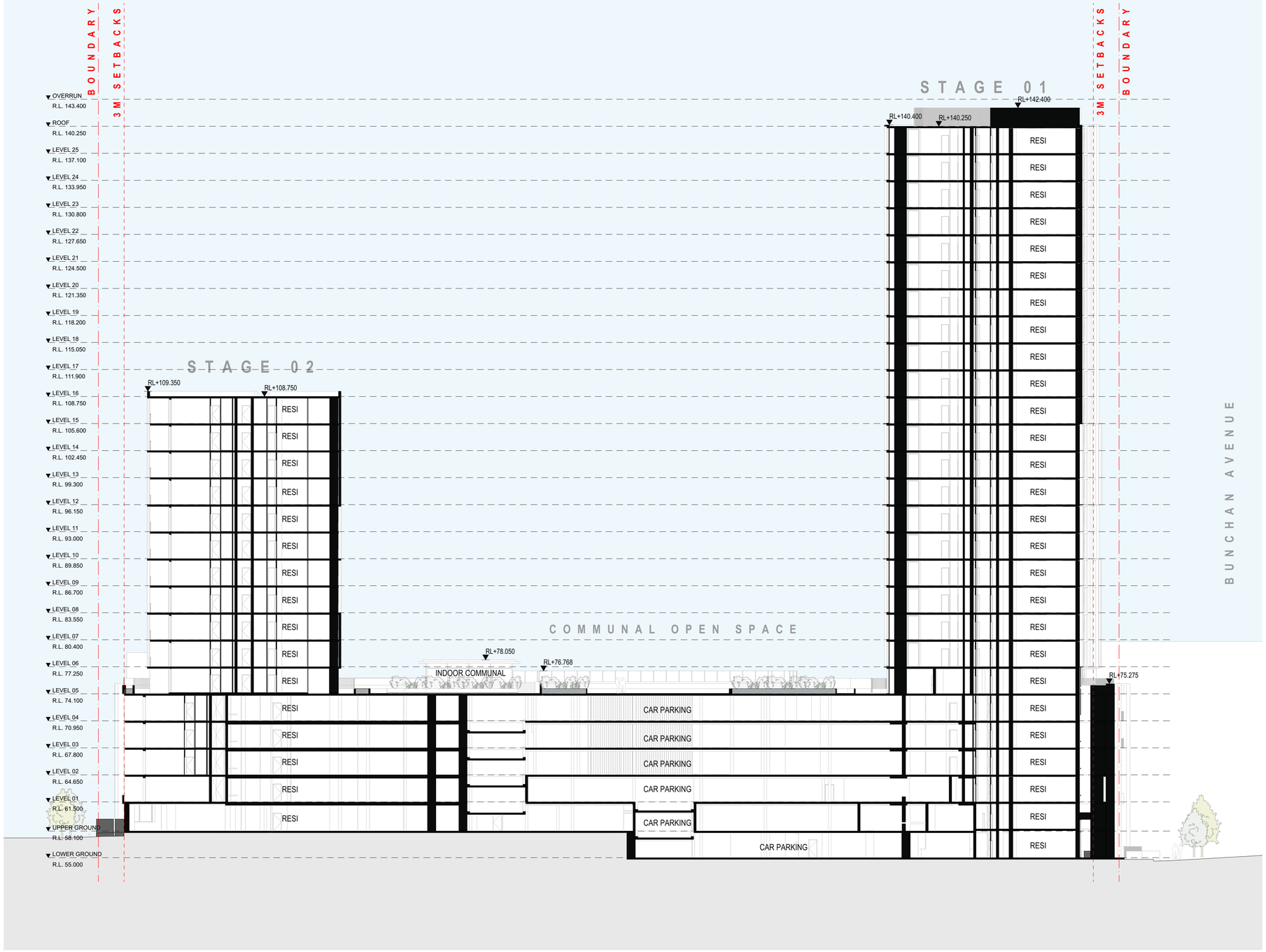
PROJECT NUMBER
20794

STAGE
DA

DRAWING NUMBER
DA-S4-3000

REVISION
B





B-B S4-SECTION B
\- SCALE: 1:250@A1

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REV	CKD	APP	STATUS	DATE
A	DC	MB	FOR SUBMISSION	19/12/2025
B	DC	MB	FOR SUBMISSION	30/1/2026

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SCALE
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PROJECT TITLE
SITE 03,04&05
BUCHAN AVE, EDMONDSON PARK
2174

DRAWING TITLE
SECTIONS - SHEET 02

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APPROVED	CHECKED	DRAWN	DRAWING NUMBER	REVISION
MB	DC		DA-S4-3001	B

PROJECT NUMBER
20794

STAGE
DA

DEVELOPMENT APPLICATION

SITE 05 EDMONDSON PARK
EDMONDSON PARK NSW 2174 AUSTRALIA

DEVELOPMENT SUMMARY

TOTAL SITE AREA: 12,450 sqm

ACHIEVED GFA: 66,316 sqm
NO. OF APARTMENTS: 867
CAR PARKING: 488



LAYOUT NUMBER	DRAWING NAME	REVISION
DA-0000 PRELIMINARIES		
DA-S5-0000	COVER SHEET	B
DA-S5-0001	SITE SURVEY (EXISTING SITE PLAN)	B
DA-S5-0002	SITE ANALYSIS	B
DA-S5-0003	PROPOSED SITE PLAN	B
DA-1000 GENERAL FLOOR PLANS		
DA-S5-0097	GENERAL FLOOR PLAN - BASEMENT 03	B
DA-S5-0098	GENERAL FLOOR PLAN - BASEMENT 02	B
DA-S5-0099	GENERAL FLOOR PLAN - BASEMENT 01	B
DA-S5-1000	GENERAL FLOOR PLAN - GROUND	B
DA-S5-1001	GENERAL FLOOR PLAN - LEVEL 01	B
DA-S5-1002	GENERAL FLOOR PLAN - LEVEL 02	B
DA-S5-1003	GENERAL FLOOR PLAN - LEVEL 03	B
DA-S5-1004	GENERAL FLOOR PLAN - LEVEL 04-08	B
DA-S5-1009	GENERAL FLOOR PLAN - LEVEL 09-11	B
DA-S5-1012	GENERAL FLOOR PLAN - LEVEL 12-19	B
DA-S5-1020	GENERAL FLOOR PLAN - LEVEL 20-25	B
DA-S5-1026	GENERAL FLOOR PLAN - LEVEL 26-39	B
DA-S5-1040	GENERAL FLOOR PLAN - ROOF	B
DA-2000 ELEVATIONS		
DA-S5-2000	EAST ELEVATION	B
DA-S5-2001	WEST ELEVATION	B
DA-S5-2002	NORTH ELEVATION	B
DA-S5-2003	SOUTH ELEVATION	B
DA-3000 SECTIONS		
DA-S5-3000	SECTIONS - SHEET 01	B
DA-S5-3001	SECTIONS - SHEET 02	B
DA-4000 SUN EYE VIEWS		
DA-S5-4000	SUN EYE VIEW - SHEET 01	B
DA-S5-4001	SUN EYE VIEW - SHEET 02	B
DA-4100 SHADOW DIAGRAMS		
DA-S5-4100	SHADOW DIAGRAMS - SHEET 01	B
DA-S5-4101	SHADOW DIAGRAMS - SHEET 02	B
DA-4200 SOLAR AMENITY DIAGRAMS		
DA-S5-4200	SOLAR AMENITY DIAGRAMS	B
DA-4300 CROSS VENTILATION DIAGRAM		
DA-S5-4300	CROSS VENTILATION DIAGRAM	B
DA-5000 AREA & AMENITIES DIAGRAM		
DA-S5-5001	GFA DIAGRAM	B
DA-S5-5002	OPEN SPACE CALCULATION	B
DA-S5-5003	DEEP SOIL CALCULATION	B
DA-6000 TYPOLOGIES		
DA-S5-6000	TYPOLOGIES DIAGRAM - SHEET 01	B
DA-S5-6001	TYPOLOGIES DIAGRAM - SHEET 02	B
DA-S5-6002	ACCESSIBLE TYPOLOGIES	B
DA-7000 MATERIAL SCHEDULE		
DA-S5-7000	MATERIAL SCHEDULE - SHEET 01	B
DA-8000 PERSPECTIVES		
DA-S5-8000	PERSPECTIVE - SHEET 01	B
DA-S5-8001	PERSPECTIVE - SHEET 02	B

BASIX

TO BE UPDATED

REV	CKD	APP	STATUS	DATE
A	DC	MB	FOR SUBMISSION	19/12/2025
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PROJECT TITLE
SITE 03,04&05
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DRAWING TITLE
COVER SHEET

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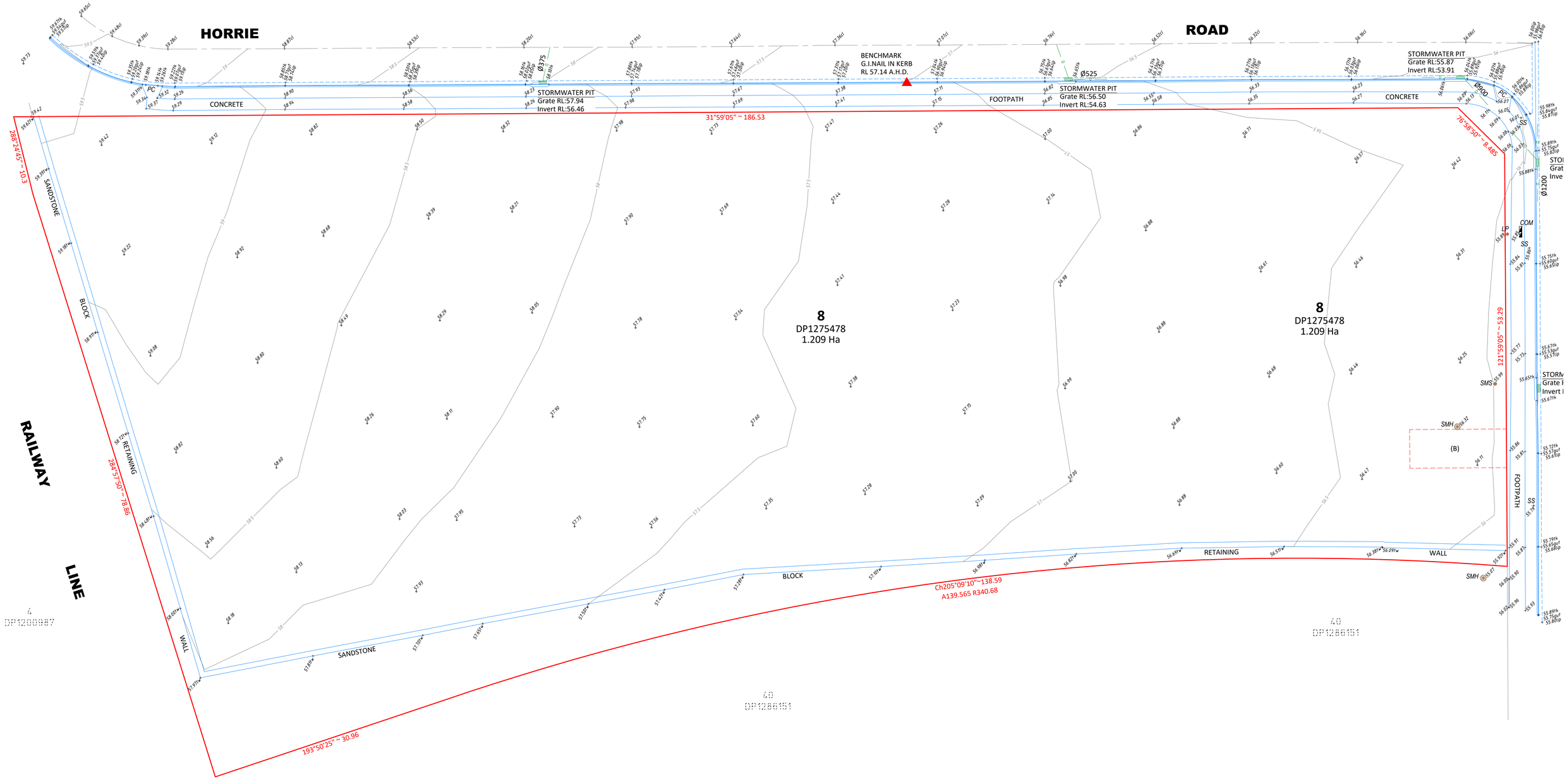
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MB	DC	

PROJECT NUMBER
20794

STAGE
DA

DRAWING NUMBER
DA-S5-0000

REVISION
B



01 9306 Detail Survey Issue A Lots 3-8 Buchan Ave Edmondson Park
SCALE: 1:1@A1

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A	DC	MB	FOR SUBMISSION	19/12/2025
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SITE 03,04&05
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DRAWING TITLE
SITE SURVEY (EXISTING SITE PLAN)

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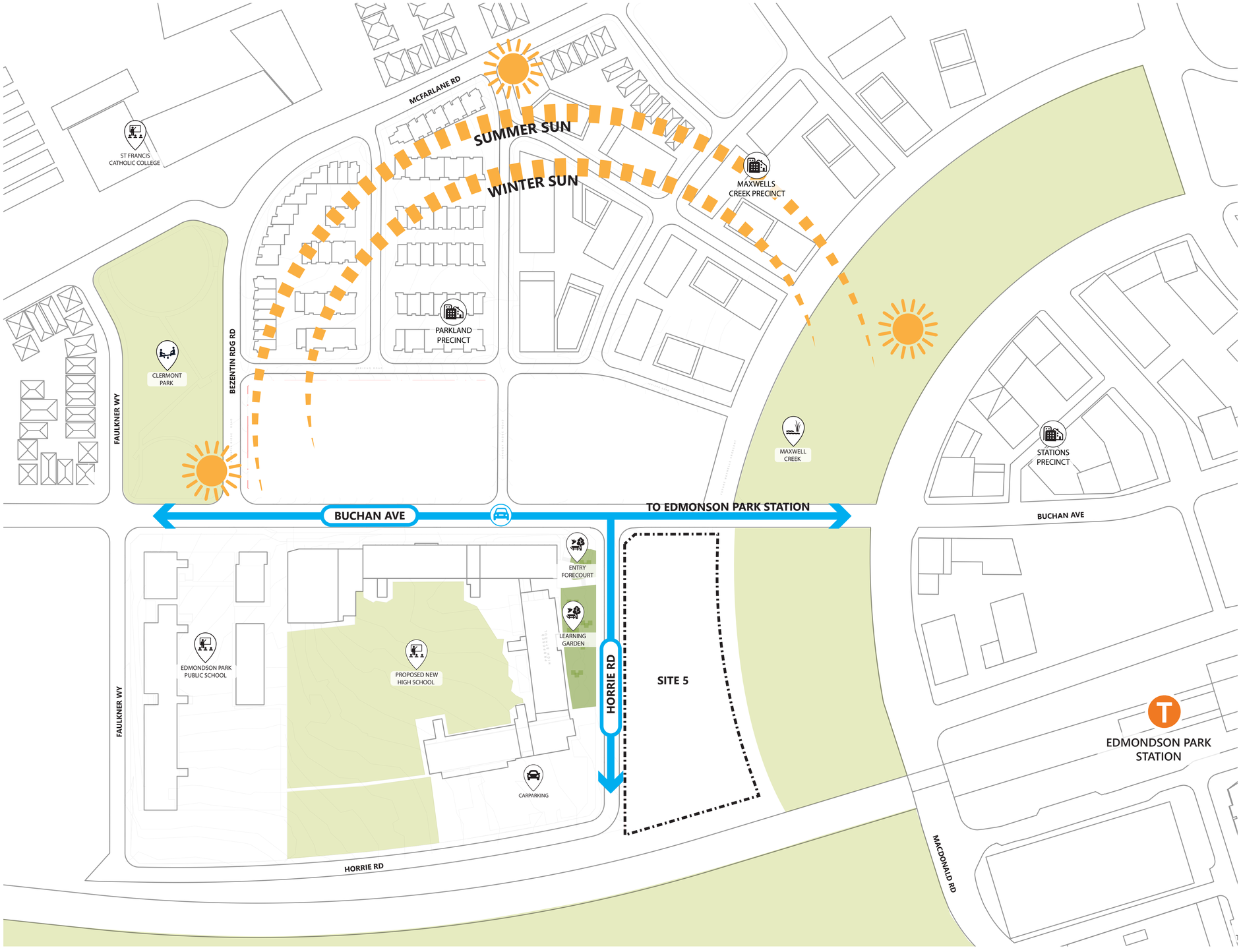
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01 SITE 05 ANALYSIS DIAGRAM
SCALE: N.T.S.

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DRAWING TITLE
SITE ANALYSIS

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PROJECT NUMBER: 20794
STAGE: DA
DRAWING NUMBER: DA-S5-0002
REVISION: B



01 SITE PLAN
SCALE: 1:1000@A1

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SITE 03,04&05
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DRAWING TITLE
PROPOSED SITE PLAN

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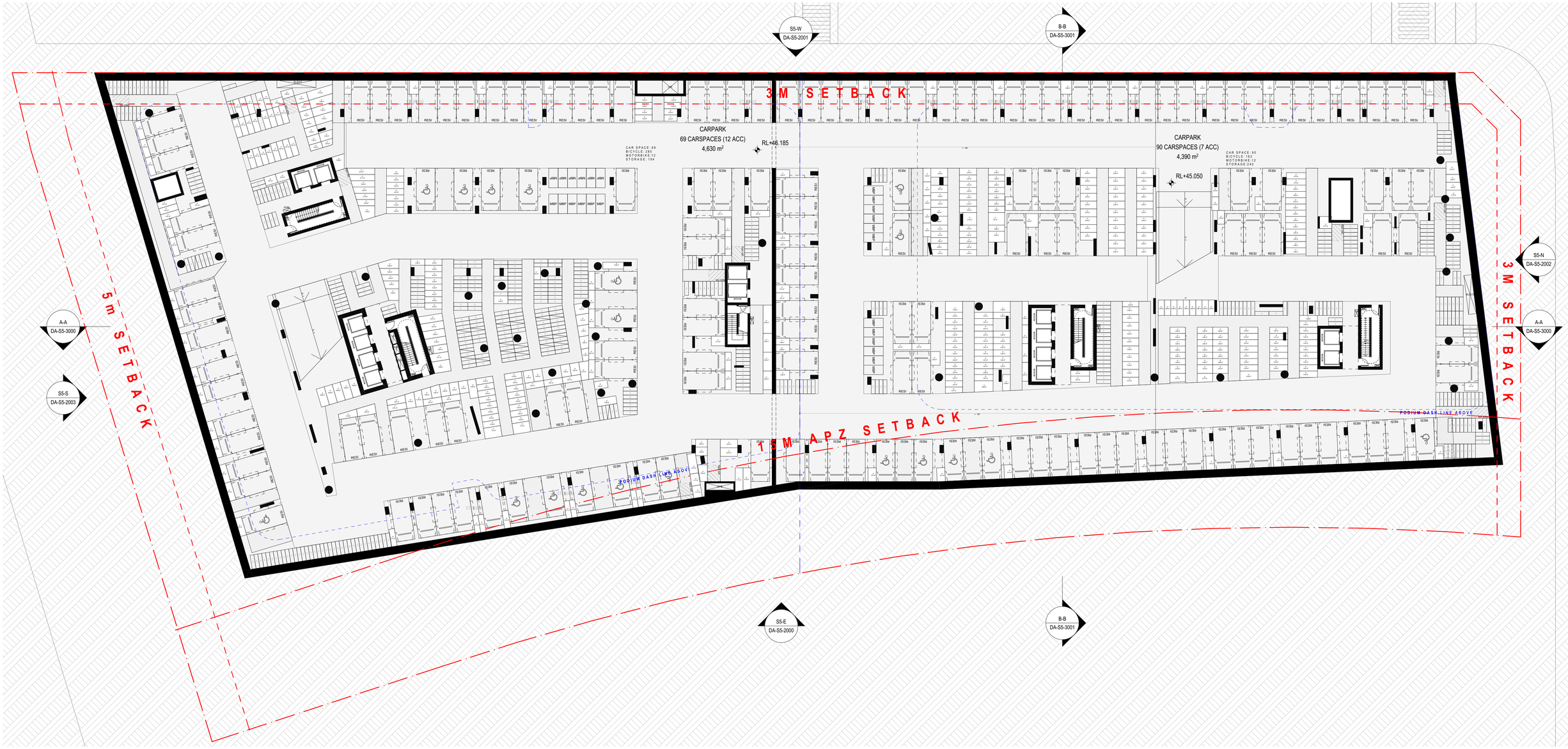
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DRAWING NUMBER
DA-S5-0003

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01 BASEMENT 03
SCALE: 1:250@A1

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DRAWING TITLE
GENERAL FLOOR PLAN - BASEMENT 03

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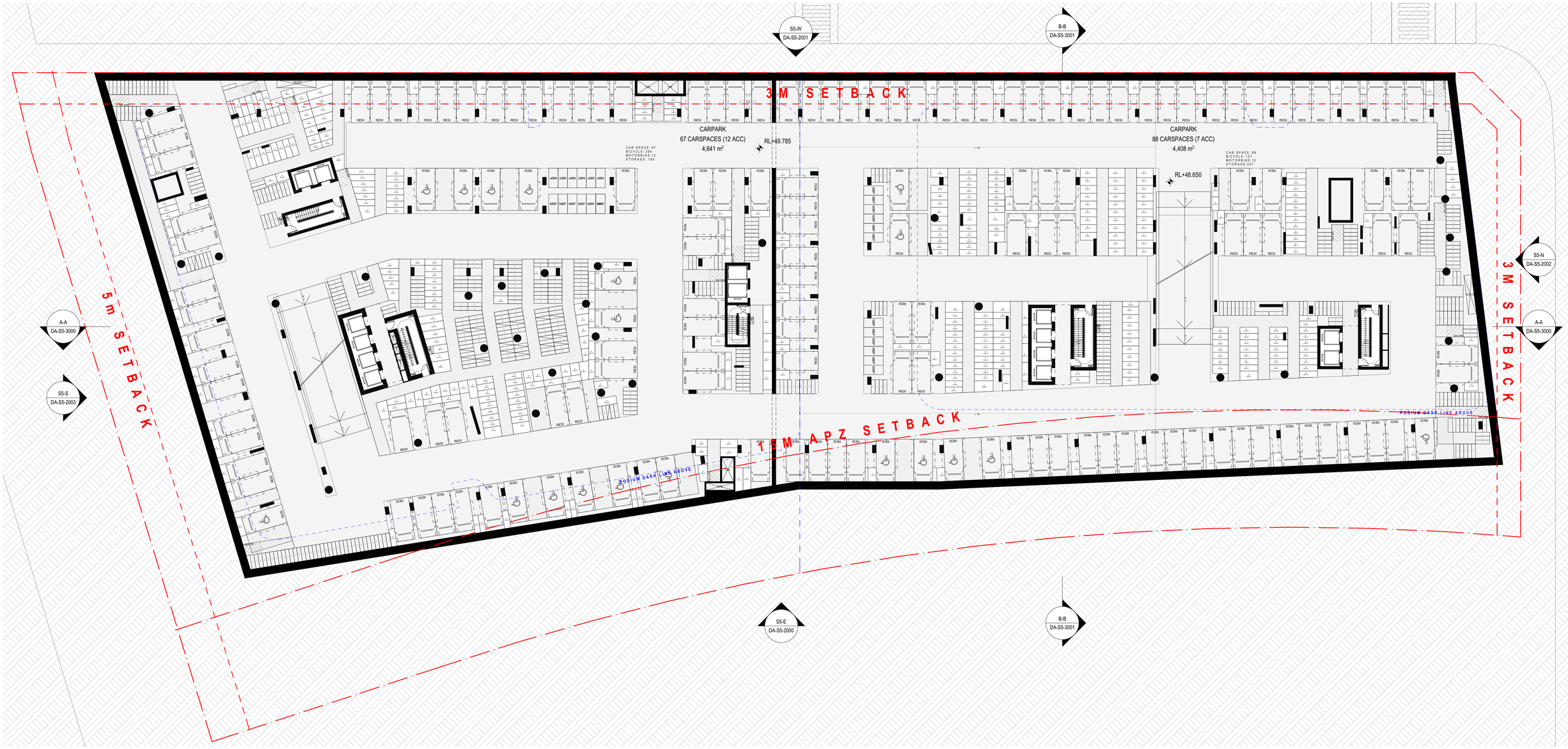
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DA-S5-0097

REVISION
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01 - BASEMENT 02
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A	DC	MB	FOR SUBMISSION	19/12/2025
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DRAWING TITLE
GENERAL FLOOR PLAN - BASEMENT 02

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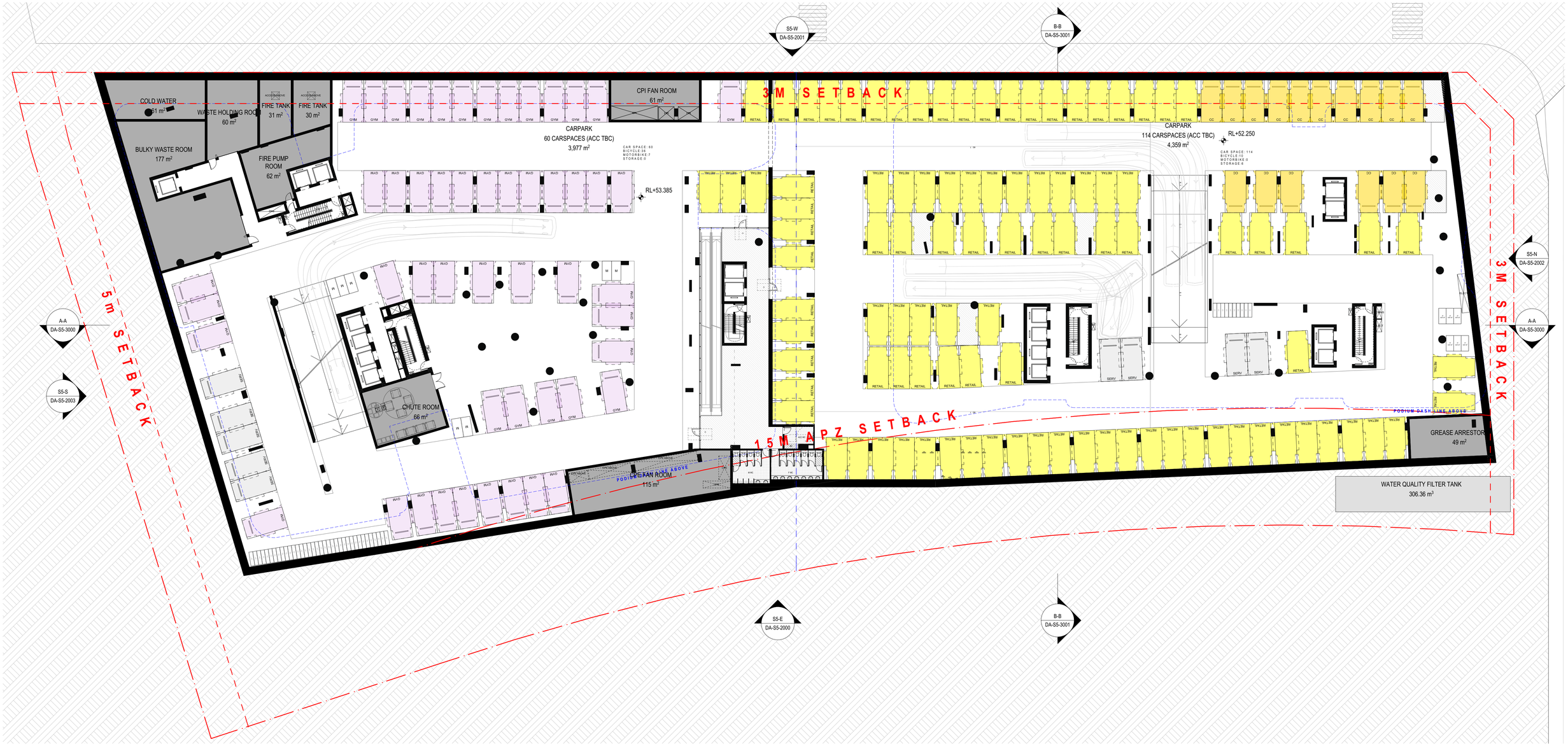
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PROJECT NUMBER
20794

DRAWING NUMBER
DA-S5-0098

STAGE
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01 BASEMENT 01
SCALE: 1:250@A1

FOR SUBMISSION

REV	CKD	APP	STATUS	DATE
A	DC	MB	FOR SUBMISSION	19/12/2025
B	DC	MB	FOR SUBMISSION	30/1/2026

PROJECT

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GENERAL FLOOR PLAN - BASEMENT 01

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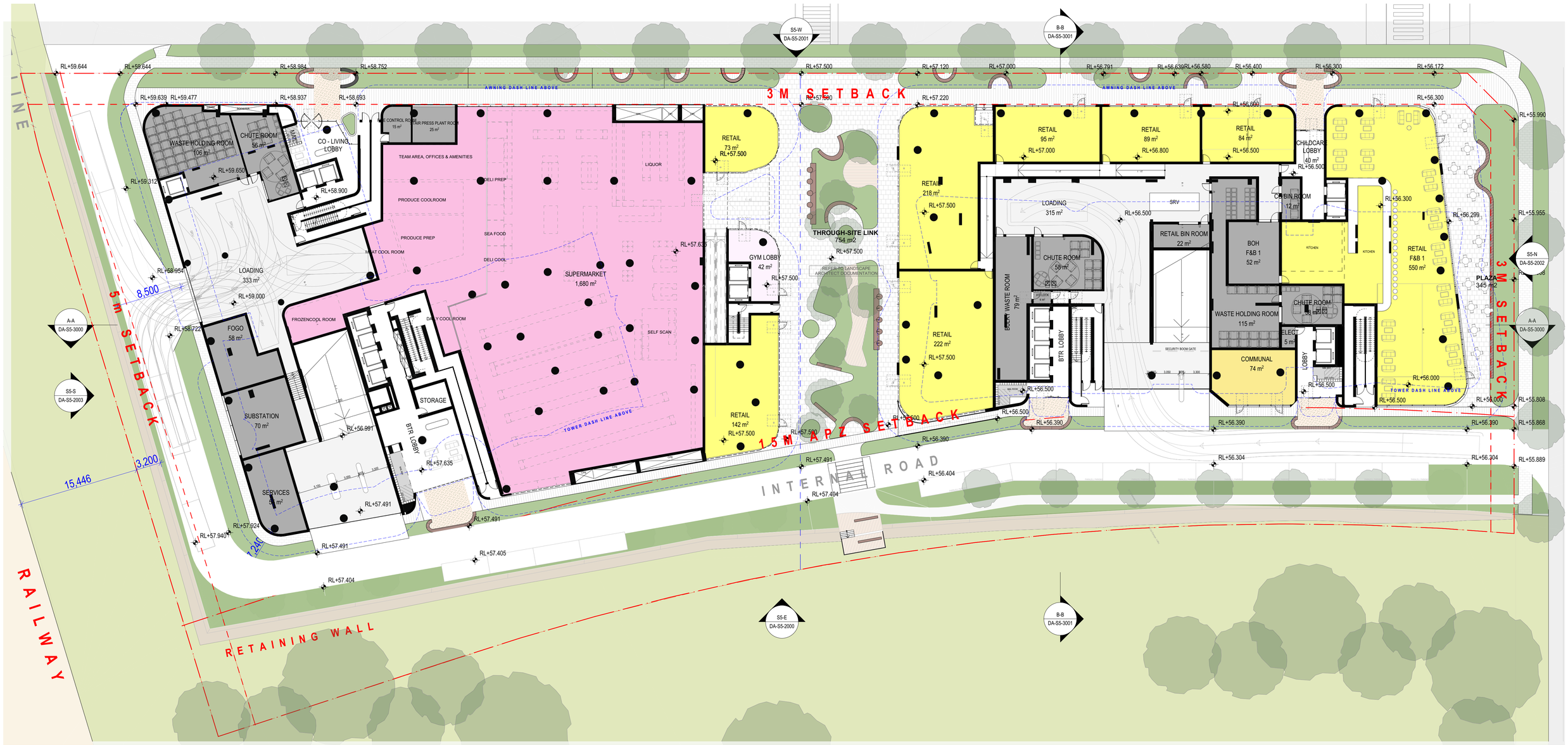
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DA-S5-0099

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01 LOWER GROUND
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A	DC	MB	FOR SUBMISSION	19/12/2025
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DRAWING TITLE
GENERAL FLOOR PLAN - GROUND

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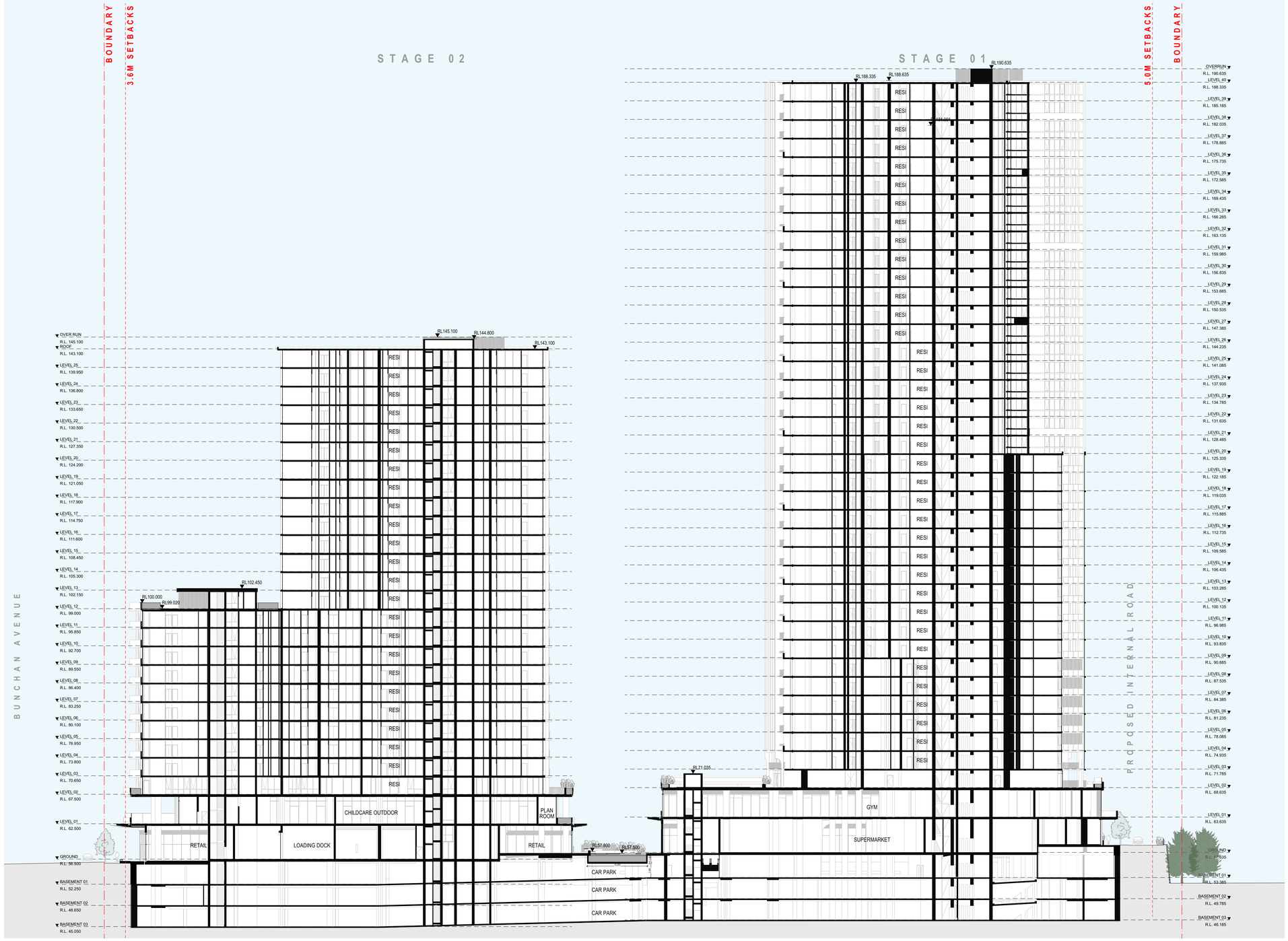
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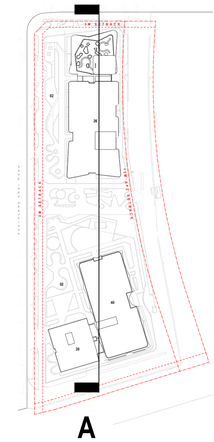
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DRAWING NUMBER
DA-S5-1000

REVISION
B





A-A
-
S5-SECTION A
SCALE: 1:350@A1

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REV	CKD	APP	STATUS	DATE
A	DC	MB	FOR SUBMISSION	19/12/2025
B	DC	MB	FOR SUBMISSION	30/1/2026

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BCA Consultants
MCKENZIE GROUP
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NORTH POINT

SCALE
1:350 @A1 Size

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PROJECT TITLE
SITE 03,04&05
BUCHAN AVE, EDMONDSON PARK
2174

DRAWING TITLE
SECTIONS - SHEET 01

CLIENT
URBAN PROPERTY GROUP
www.urbanpropertygroup.com.au

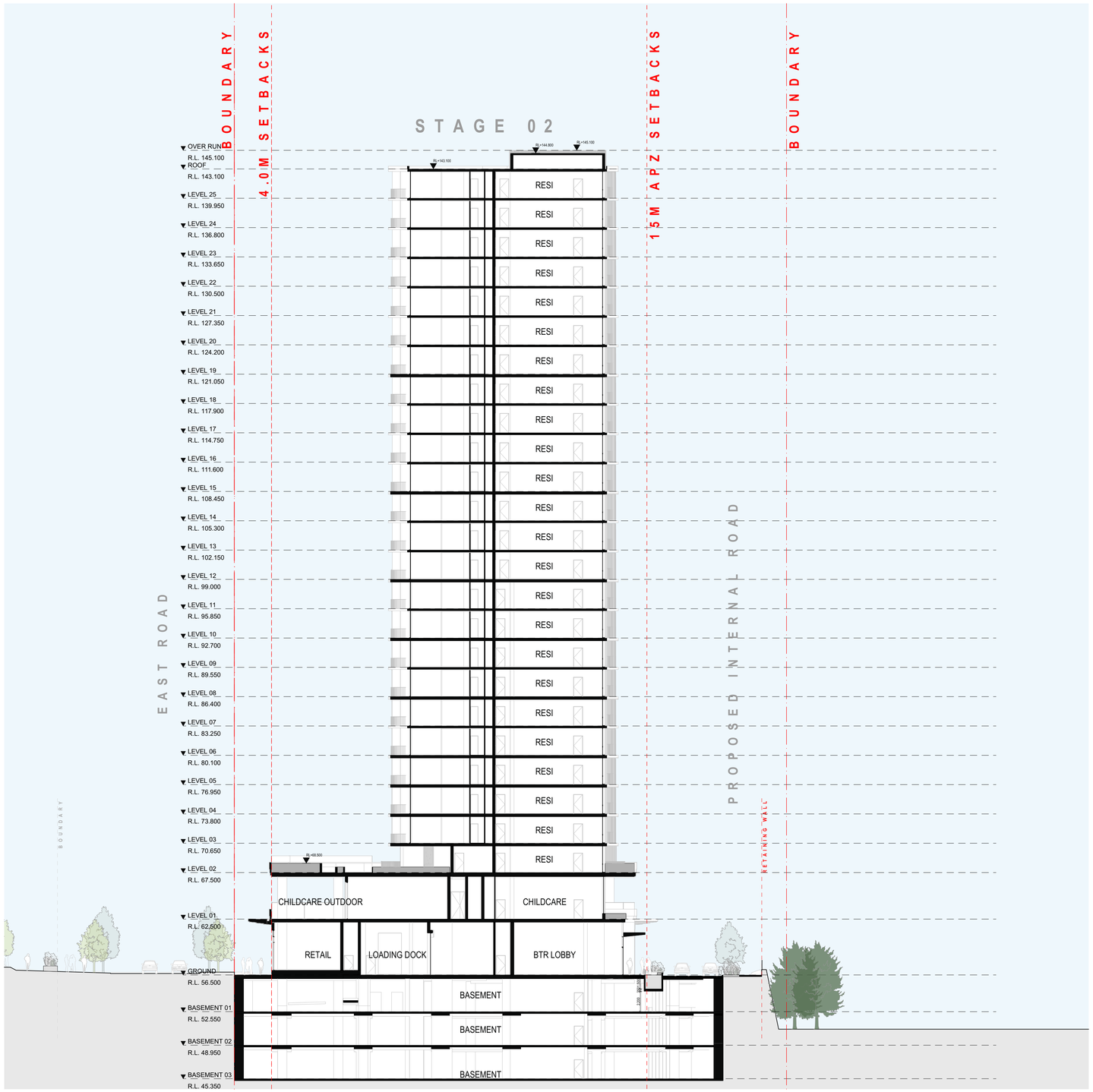
APPROVED	CHECKED	DRAWN
MB	DC	

PROJECT NUMBER
20794

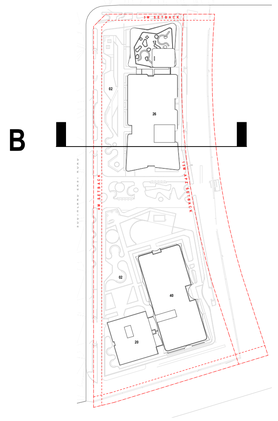
STAGE
DA

DRAWING NUMBER
DA-S5-3000

REVISION
B



B-B
-
S5-SECTION B
SCALE: 1:250@A1



FOR SUBMISSION

REV	CKD	APP	STATUS	DATE
A	DC	MB	FOR SUBMISSION	19/12/2025
B	DC	MB	FOR SUBMISSION	30/1/2026

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PROJECT TITLE
SITE 03,04&05
BUCHAN AVE, EDMONDSON PARK
2174

DRAWING TITLE
SECTIONS - SHEET 02

CLIENT
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PROJECT NUMBER	STAGE
20794	DA

APPROVED	CHECKED	DRAWN	DRAWING NUMBER	REVISION
MB	DC		DA-S5-3001	B

Appendix C - Photographs



Photograph 1: Image of Site 3, looking west (6/11/2025).



Photograph 2: Image of site offices on the eastern side of Site 3, looking north-east (6/11/2025).



Photograph 3: Image of the central portion of Site 3, looking west (6/11/2025).



Photograph 4: Image of the western portion of Site 3, showing equipment storage area (6/11/2025).



Photograph 5: Image of road base fill and concrete material within Site 3 (6/11/2025).



Photograph 6: Image of ground surfaces within Site 3, showing silty sand topsoil (6/11/2025).



Photograph 7: Image of site development to the north of Site 3, showing cut-and-fill activities (6/11/2025).



Photograph 8: Image of Site 4, looking west (6/11/2025).



Photograph 9: Image of filling material on the central to eastern portion of Site 4, looking west (6/11/2025).



Photograph 10: Image of the southern boundary of Site 4, looking west. Note stockpiles in the background (6/11/2025).



Photograph 11: Image of stockpiled material within Site 4, showing shale and gravelly clay materials (6/11/2025).



Photograph 12: Image of the eastern portion of Site 4, showing fill materials and riparian zone in the background (6/11/2025).



Photograph 13: Image of the south-eastern corner of Site 4, showing drainage line connecting to riparian zone and creek in the background (6/11/2025).



Photograph 14: Image of the riparian zone to the east of Site 4 (6/11/2025).



Photograph 15: Image of the creek within the riparian zone (off-site), showing stagnant water (6/11/2025).



Photograph 16: Image of Site 5, looking south (6/11/2025).



Photograph 17: Image of south-eastern portion of Site 5, showing sandstone retaining wall to the left and riparian zone to the right (6/11/2025).



Photograph 18: Image of southern boundary of Site 5, looking east and showing sandstone retaining wall and Edmondson Park train station in the background (6/11/2025).



Photograph 19: Image adjacent to the south-west boundary Site 5, looking north (6/11/2025).



Photograph 20: Image ground surfaces within Site 5, noting silty sand with gravels (6/11/2025).

Appendix D – Database Search (Lotsearch Pty Ltd)

LOTSEARCH

LOTSEARCH ENVIRO LITE

Date: 28 Oct 2025 12:04:21

Reference: LS105313 EL

Address: 4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

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

Dataset Listing

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

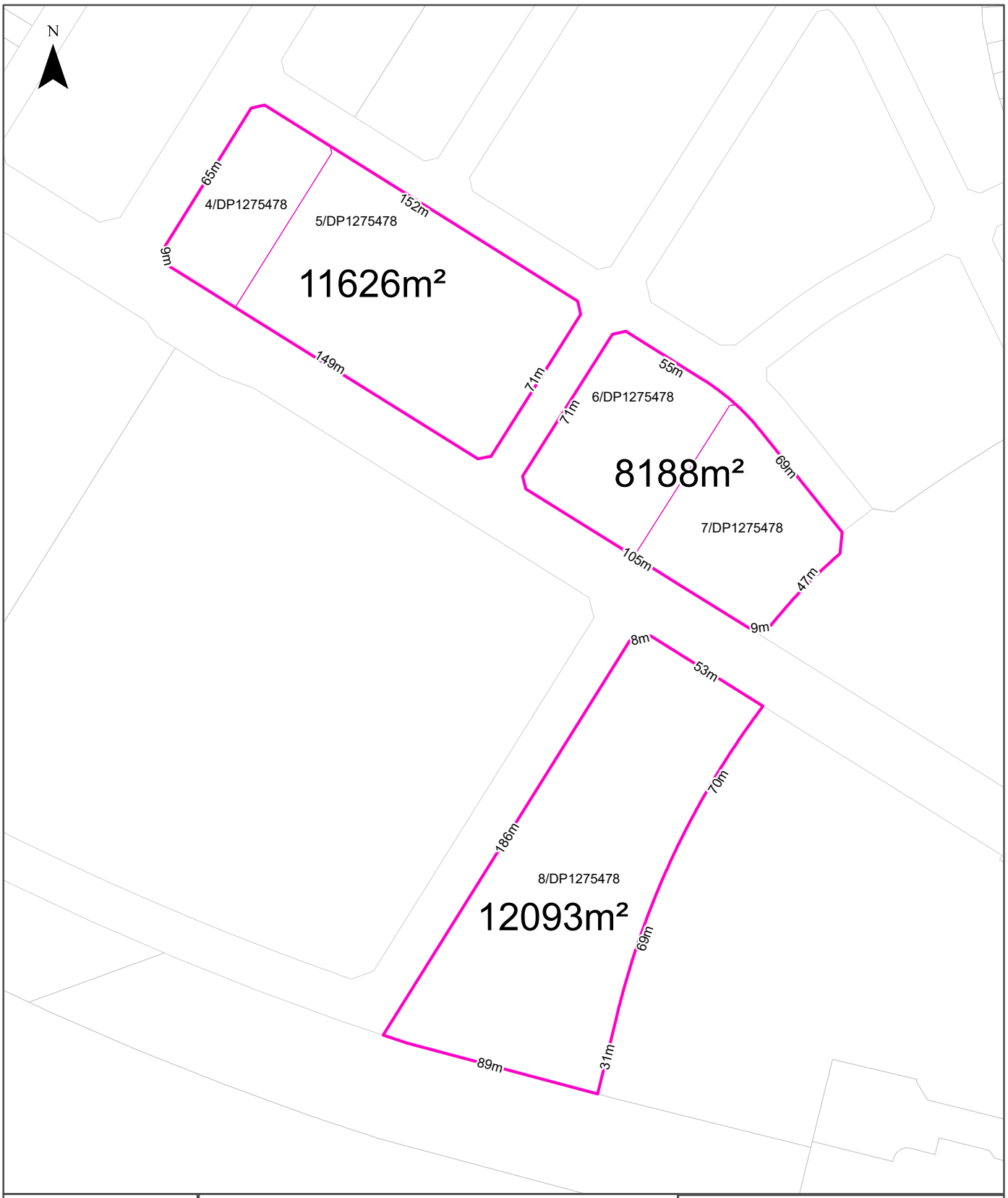
Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	07/10/2025	07/10/2025	Monthly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	20/05/2025	20/05/2025	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority NSW	16/10/2025	09/10/2025	Monthly	1000m	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority NSW	16/10/2025	16/10/2025	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority NSW	14/08/2025	23/06/2025	Quarterly	1000m	0	0	0
Notices under the POEO Act 1997	Environment Protection Authority NSW	15/10/2025	15/10/2025	Monthly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	30/05/2025	19/01/2023	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	16/10/2024	19/01/2023	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority NSW	01/08/2025	05/02/2025	Monthly	2000m	0	0	0
Rural Fire Service PFAS Environmental Investigations	NSW Rural Fire Service	01/10/2025	05/09/2025	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Australian Department of Defence	16/10/2025	16/10/2025	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Australian Department of Defence	16/10/2025	16/10/2025	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	15/10/2025	15/10/2025	Monthly	2000m	0	0	0
Defence Controlled Areas	Australian Department of Defence	16/10/2025	16/10/2025	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Australian Department of Defence	14/08/2025	02/09/2022	Quarterly	2000m	0	0	0
National Unexploded Ordnance (UXO)	Australian Department of Defence	16/10/2025	16/10/2025	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority NSW	28/11/2024	15/12/2022	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority NSW	27/10/2025	27/10/2025	Monthly	1000m	0	1	1
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority NSW	27/10/2025	27/10/2025	Monthly	1000m	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority NSW	27/10/2025	27/10/2025	Monthly	1000m	4	5	9
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	18/08/2025	18/08/2025	Quarterly	1000m	0	2	11
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	18/08/2025	18/08/2025	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	18/08/2025	18/08/2025	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	18/08/2025	18/08/2025	Quarterly	1000m	0	0	1
State Forest	Forestry Corporation of NSW	18/12/2024	11/11/2024	Annually	1000m	0	0	0

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Hydrogeology Map of Australia	Geoscience Australia	22/04/2025	19/08/2019	Annually	1000m	1	1	1
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024	NSW Department of Climate Change, Energy, the Environment and Water	08/08/2025	28/06/2024	Quarterly	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	30/05/2025	04/03/2025	Annually	2000m	0	0	2
NSW Seamless Geology Single Layer: Rock Units	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	1	1	2
NSW Seamless Geology Single Layer: Geological Boundaries and Faults	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	0	0	0
NSW Seamless Geology Single Layer: Trendlines	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	0	0	0
NSW Seamless Geology Single Layer: Fold Axes	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Department of Primary Industries and Regional Development	05/05/2025	30/09/2015	Annually	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	15/01/2025	17/02/2011	Annually	1000m	1	1	1
Soil Landscapes of Central and Eastern NSW	NSW Department of Climate Change, Energy, the Environment and Water	18/12/2024	27/07/2020	Annually	1000m	1	1	3
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Housing and Infrastructure	13/10/2025	26/09/2025	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	15/01/2025	21/02/2013	Annually	1000m	1	1	2
Dryland Salinity - National Assessment	Australian Bureau of Agricultural and Resource Economics and Sciences	03/06/2025	15/04/2025	Annually	1000m	0	0	0
Dryland Salinity Potential of Western Sydney	NSW Department of Climate Change, Energy, the Environment and Water	29/04/2025	26/02/2024	Annually	1000m	2	2	2
Mining Subsidence Districts	NSW Department of Customer Service	18/08/2025	18/08/2025	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Primary Industries and Regional Development	14/10/2025	14/10/2025	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Primary Industries and Regional Development	14/10/2025	14/10/2025	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Primary Industries and Regional Development	14/10/2025	14/10/2025	Monthly	1000m	9	9	12
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Housing and Infrastructure	13/10/2025	08/09/2023	Monthly	1000m	2	2	2
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Housing and Infrastructure	13/10/2025	03/10/2025	Monthly	1000m	1	7	48
Commonwealth Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	28/10/2025	13/04/2022	Annually	1000m	0	0	2
National Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	28/10/2025	13/04/2022	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	18/08/2025	25/07/2025	Quarterly	1000m	0	0	2
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Housing and Infrastructure	13/10/2025	03/10/2025	Monthly	1000m	0	0	5
Bush Fire Prone Land	NSW Rural Fire Service	03/10/2025	02/10/2025	Monthly	1000m	1	3	4
NSW Native Vegetation Type Map	NSW Department of Climate Change, Energy, the Environment and Water	11/09/2025	08/11/2024	Quarterly	1000m	2	3	28
Ramsar Wetlands of Australia	Australian Department of Climate Change, Energy, the Environment and Water	19/05/2025	05/03/2025	Annually	1000m	0	0	0

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Terrestrial	Australian Department of Climate Change, Energy, The Environment and Water	20/03/2025	19/06/2024	Annually	1000m	0	0	1
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Marine	Australian Department of Climate Change, Energy, The Environment and Water	20/03/2025	30/06/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	30/05/2025	07/05/2020	Annually	1000m	1	3	3
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	30/05/2025	07/05/2020	Annually	1000m	1	3	5
NSW BioNet Species Sightings	NSW Department of Climate Change, Energy, the Environment and Water	22/10/2025	22/10/2025	Monthly	10000m	-	-	-

Site Diagram

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 31906m²

Total Perimeter: 1.32km

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 Meters

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025

Coordinate System: GDA 1994 MGA Zone 56

Date: 28 October 2025

Contaminated Land

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

List of NSW contaminated sites notified to EPA

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

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

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

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

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

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

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

Former Gasworks

Former Gasworks within the dataset buffer:

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

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

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	No records in buffer											

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

Waste Management & Liquid Fuel Facilities

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

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
Creative Commons 4.0 © Commonwealth of Australia (Geoscience Australia) 2022

National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

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

National Liquid Fuel Facilities Data Source: Geoscience Australia
Creative Commons 4.0 © Commonwealth of Australia

PFAS Investigation & Management Programs

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

EPA PFAS Investigation Program

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

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

EPA PFAS Investigation Program: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

RFS PFAS Environmental Investigations

Sites that are part of the RFS PFAS Environmental Investigations within the dataset buffer:

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

NSW RFS PFAS Environmental Investigations Custodian: NSW Rural Fire Service

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

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Defence Controlled Areas (DCA)

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

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

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

Defence 3 Year Regional Contamination Investigation Program (RCIP)

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

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

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

National Unexploded Ordnance (UXO)

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

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

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

EPA Other Sites with Contamination Issues

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

EPA Other Sites with Contamination Issues

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

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

Sites within the dataset buffer:

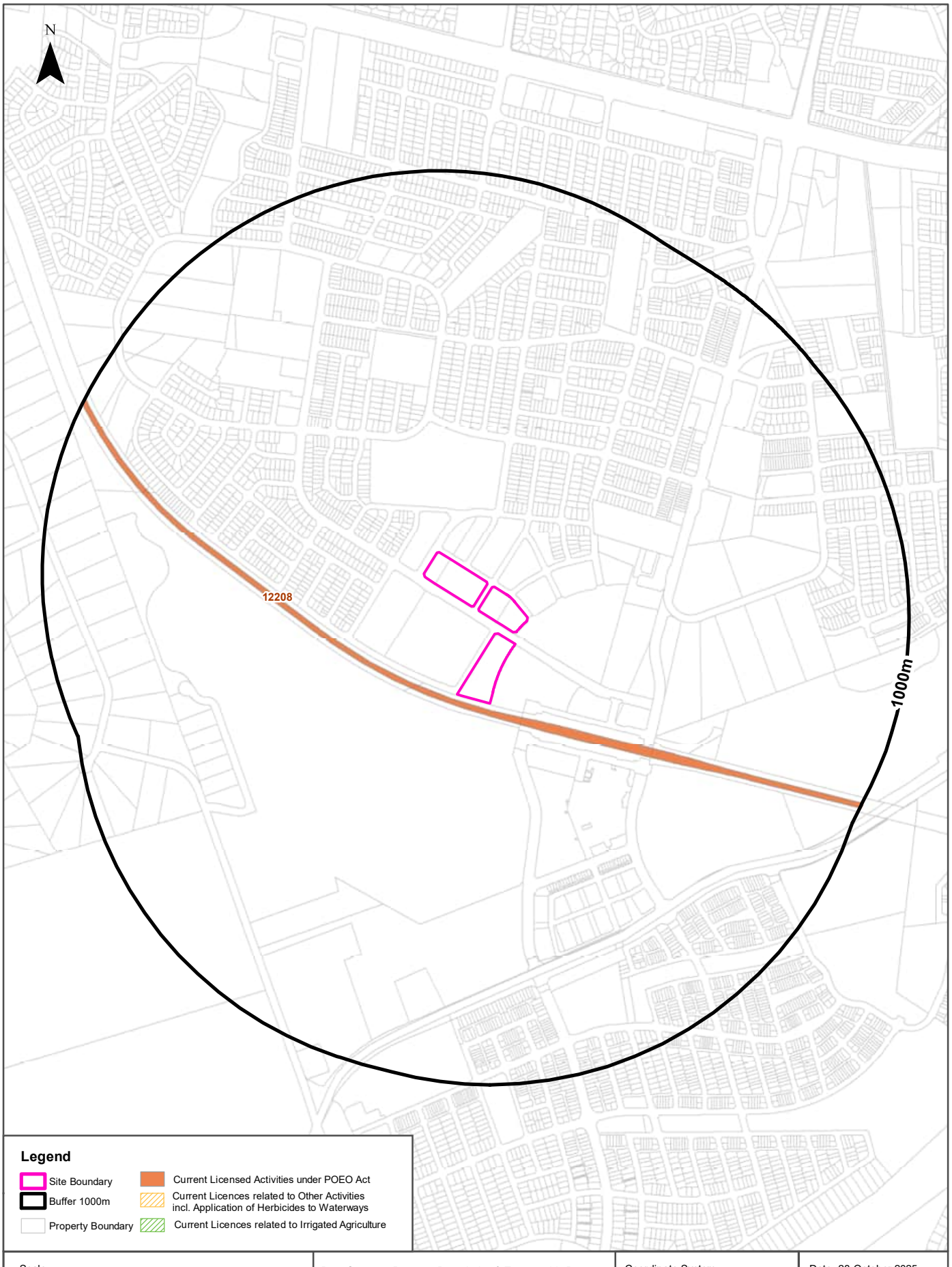
Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

EPA Other Sites with Contamination Issues: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Current EPA Licensed Activities

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



EPA Activities

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Licensed Activities under the POEO Act 1997

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

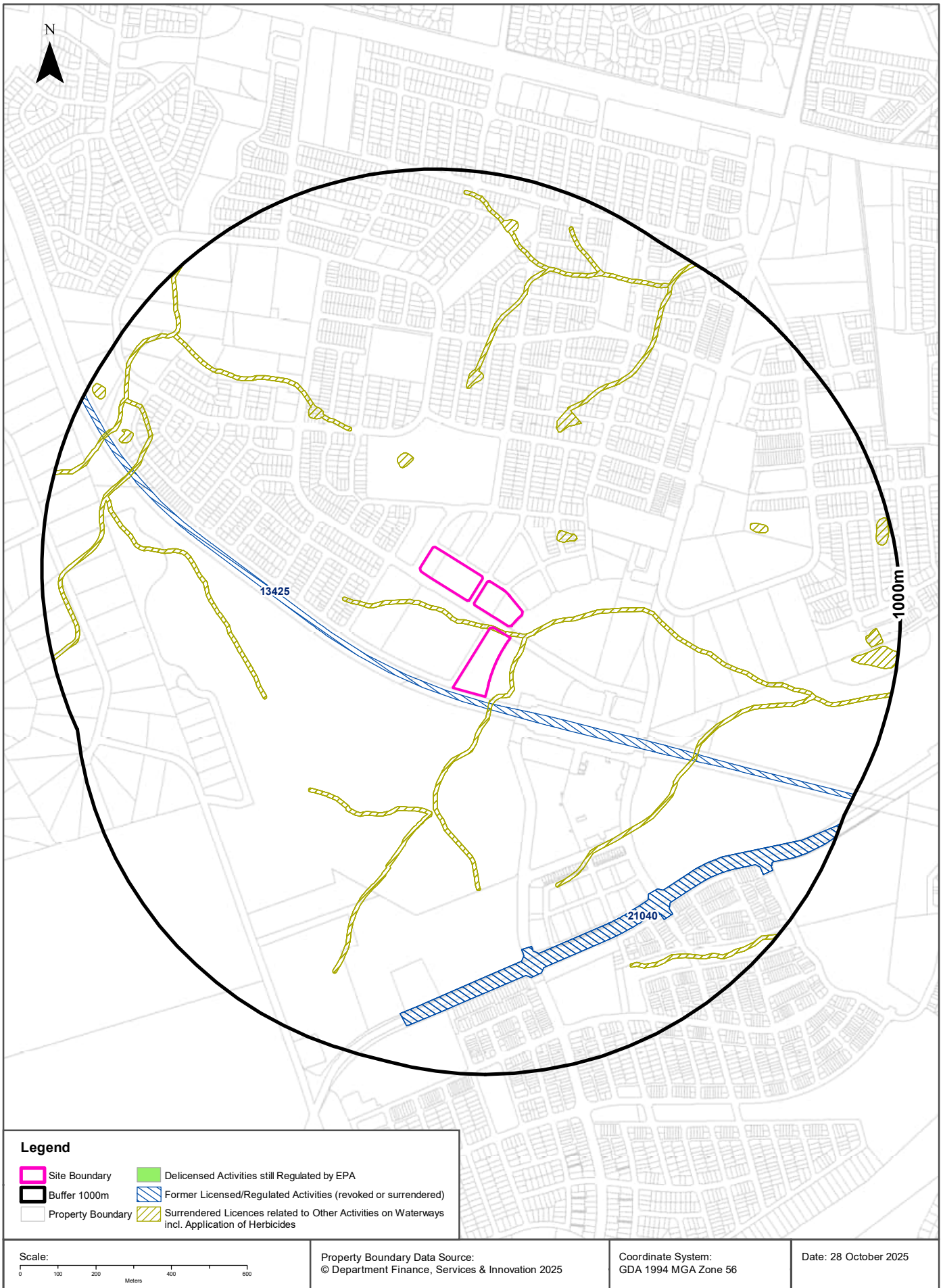
EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
12208	SYDNEY TRAINS		SYDNEY TRAINS, HAYMARKET, NSW 1238		Railway systems activities	Network of Features	12m	South

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



EPA Activities

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Delicensed Activities still regulated by the EPA

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

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

Delicensed Activities Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

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

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

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
5176	LIVERPOOL CITY COUNCIL	WATERWAYS OF LIVERPOOL CITY	Surrendered	17/04/2001	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
13425	JOHN HOLLAND PTY LTD	Glenfield to Leppington Rail Line Project, From the existing rail network at Glenfield west to Rossmore., GLENFIELD	Surrendered	04/08/2011	Railway systems activities	Network of Features	12m	South
21040	Burton Contractors Pty Ltd	, Campbelltown Road Upgrade between East Town Centre Road and New MacDonald Road, CAMPBELLTOWN, NSW 2560,	Surrendered	21/02/2018	Crushing, grinding or separating	Road Match	672m	South East
21040	Burton Contractors Pty Ltd	, Campbelltown Road Upgrade between East Town Centre Road and New MacDonald Road, CAMPBELLTOWN, NSW 2560,	Surrendered	21/02/2018	Extractive activities	Road Match	672m	South East
21040	Burton Contractors Pty Ltd	, Campbelltown Road Upgrade between East Town Centre Road and New MacDonald Road, CAMPBELLTOWN, NSW 2560,	Surrendered	21/02/2018	Road construction	Road Match	672m	South East
6651	CAMPBELLTOWN CITY COUNCIL	WATERWAYS OF CAMPBELLTOWN CITY COUNCIL AREA - CAMPBELLTOWN NSW 2560	Surrendered	08/05/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	805m	South East

Former Licensed Activities Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Historical Business Directories

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Business Directory Records 1950-1991
Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1986, 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						

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Business Directory Records 1950-1991
Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1986, 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					

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Historical Business Directories

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Dry Cleaners, Motor Garages & Service Stations 1948-1993 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.

Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

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

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Dry Cleaners, Motor Garages & Service Stations 1948-1993 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.

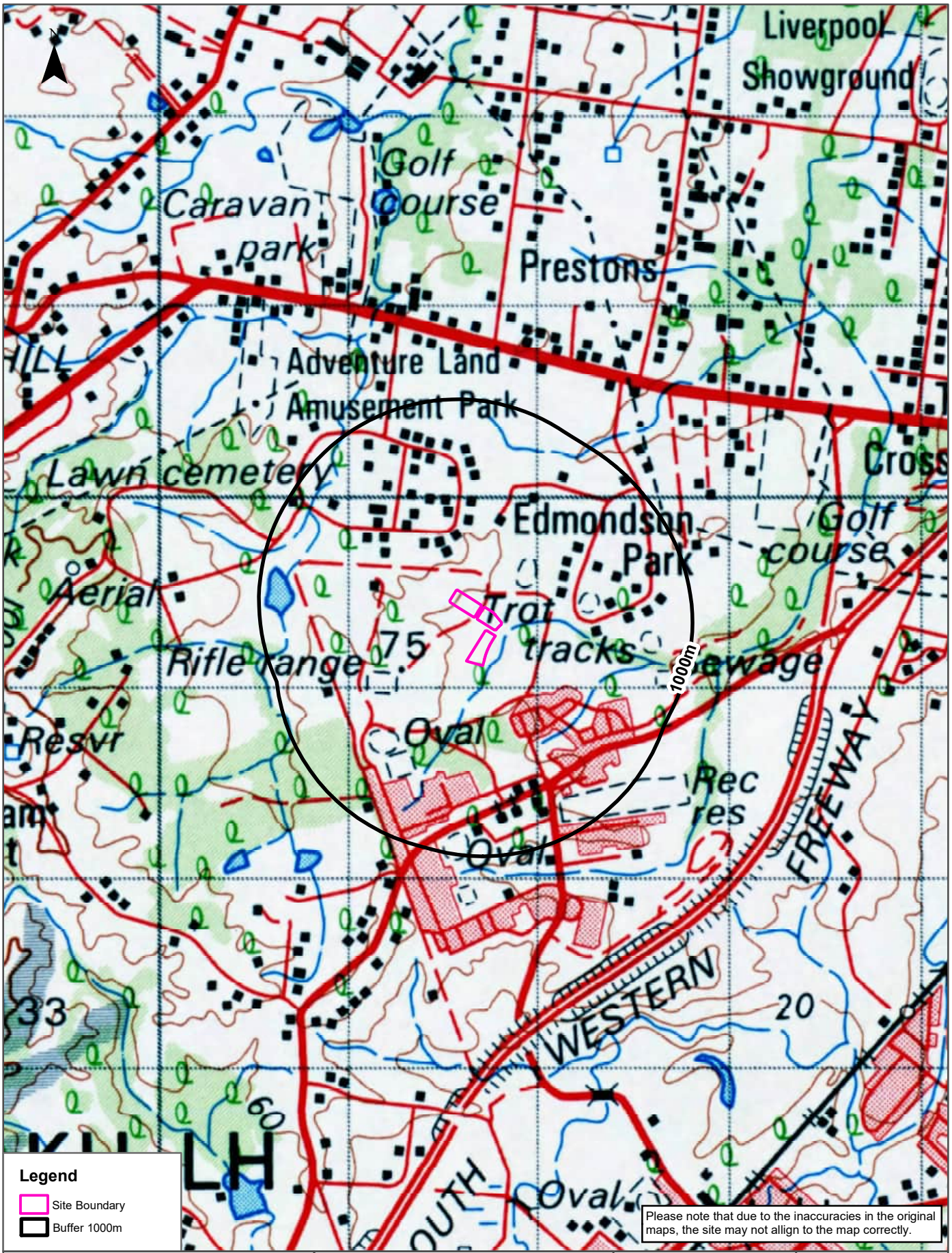
Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

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

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Historical Map 1975

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

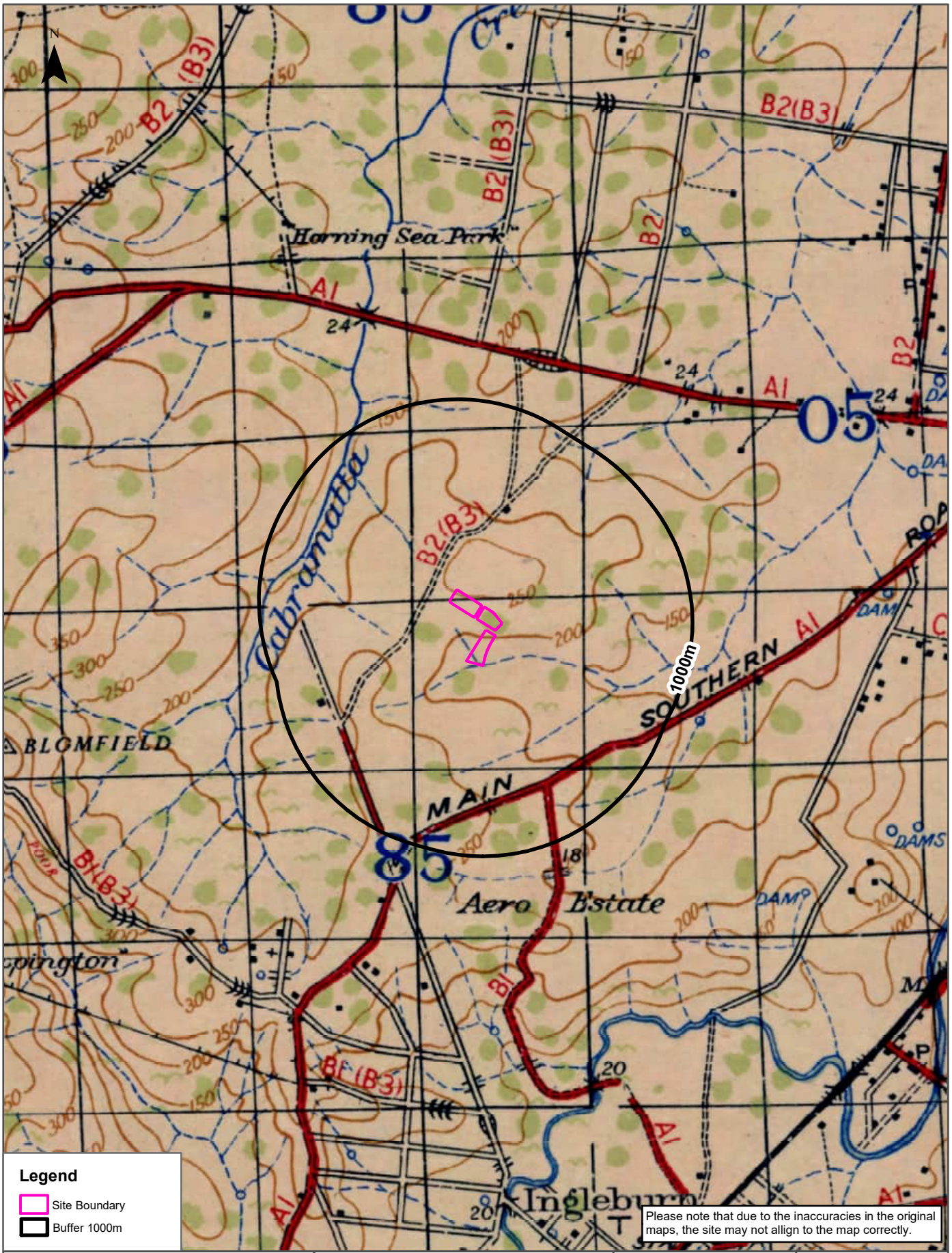


Scale:	Data Sources: NATMAP 1:100,000 Topographic Maps Geoscience Australia	Coordinate System: GDA 1994 MGA Zone 56	Date: 27 October 2025

0 320 640 960 1,280
Meters

Historical Map c.1942

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Scale: 0 320 640 Meters 960 1,280

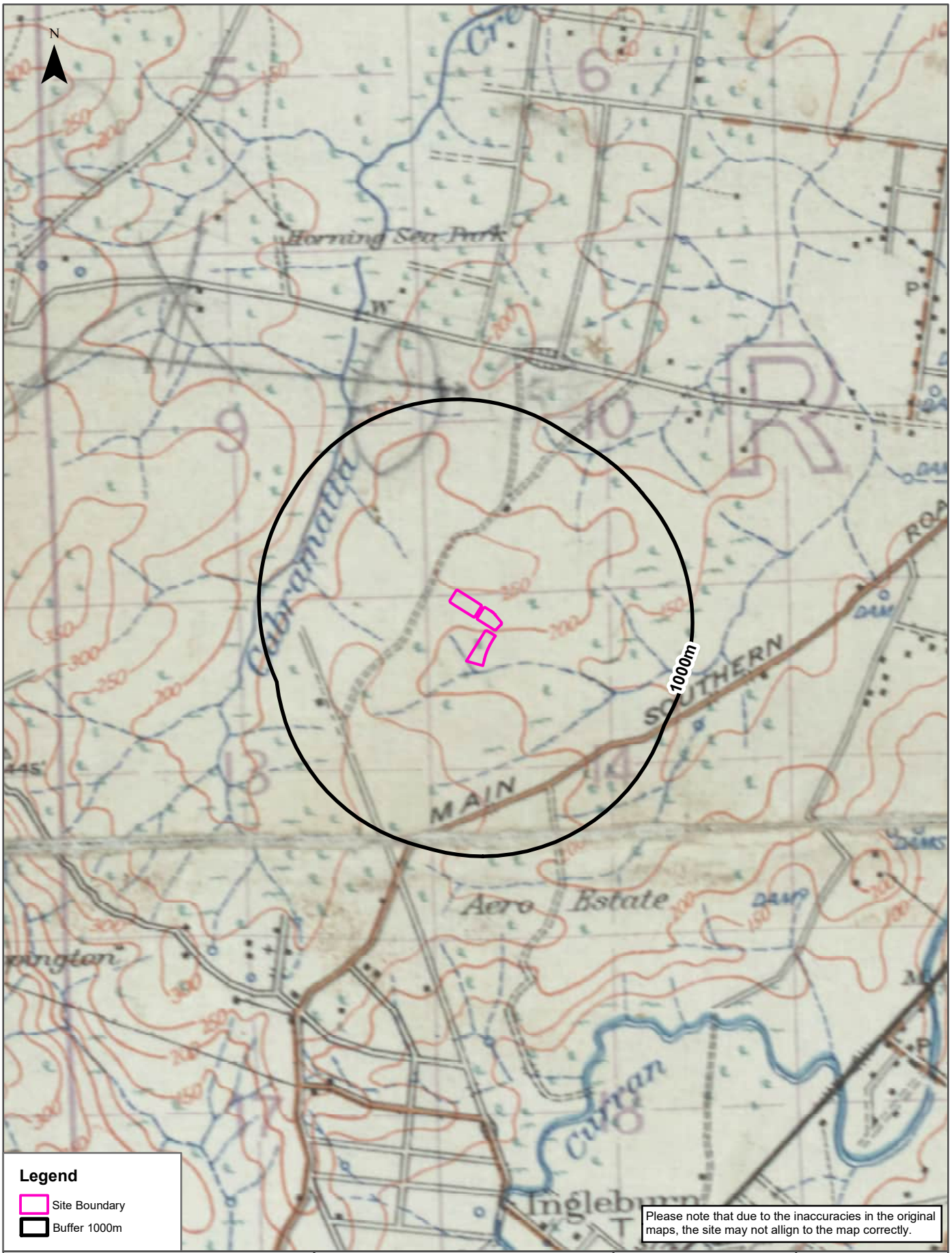
Data Sources: Australia 1:63360
Produced by Australian Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 56

Date: 27 October 2025

Historical Map c.1929

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Scale: 0 320 640 960 1,280 Meters

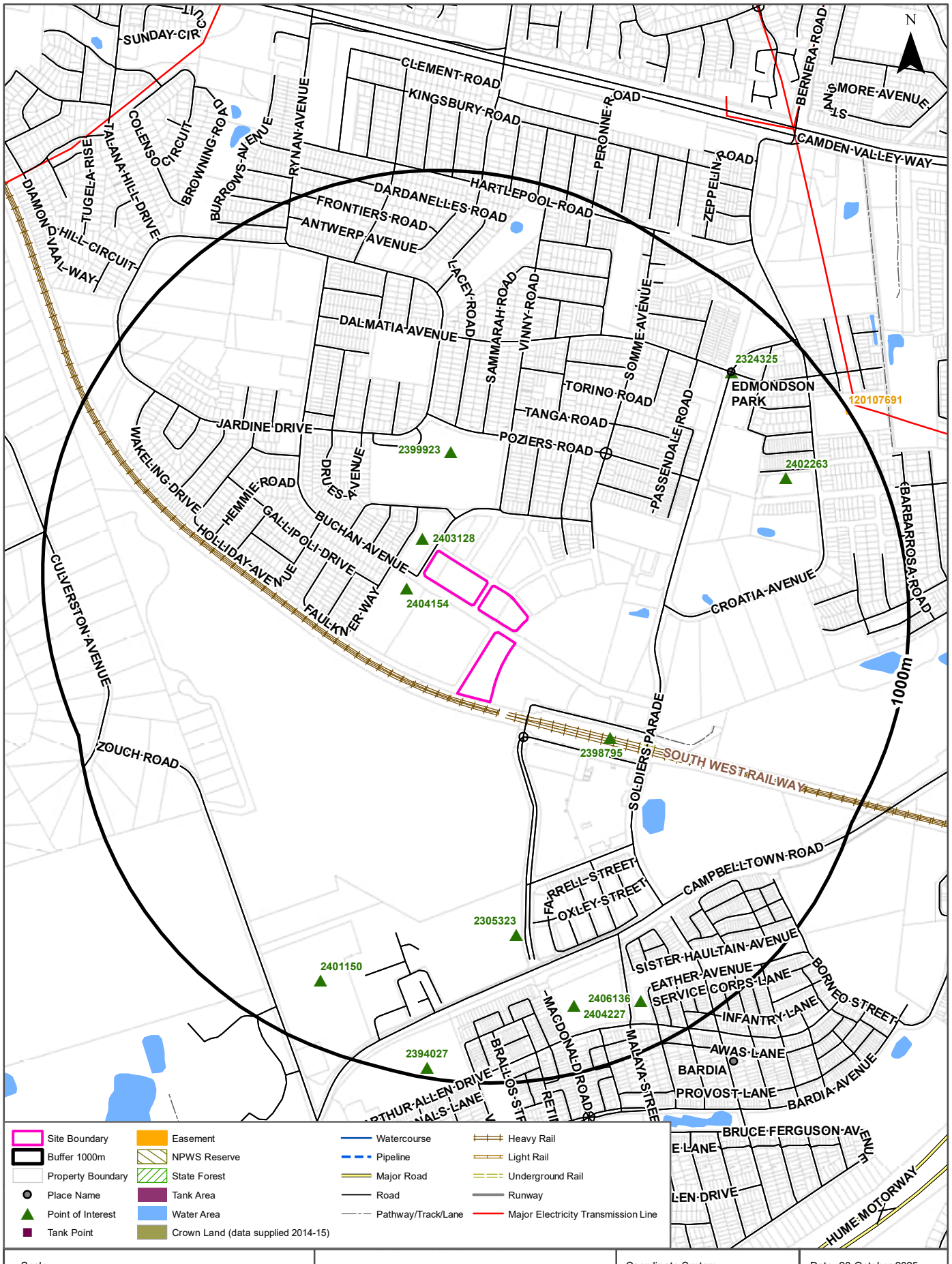
Data Sources: Australia 1:63360
Produced by Australian Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 56

Date: 27 October 2025

Topographic Features

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Scale: 0 100 200 400 600 Meters

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025

Coordinate System: GDA 1994 MGA Zone 56

Date: 28 October 2025

Topographic Features

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
2403128	Park	CLERMONT PARK	52m	North West
2404154	Primary School	EDMONDSON PARK PUBLIC SCHOOL	58m	West
2399923	Combined Primary-Secondary School	ST FRANCIS CATHOLIC COLLEGE	262m	North
2398795	Railway Station	EDMONDSON PARK RAILWAY STATION	328m	South East
2305323	Child Care Centre	BAMBI KINDERGARTEN	614m	South
2402263	Park	LILLIAN BRATKOVIC PARK	769m	North East
2324325	Suburb	EDMONDSON PARK	826m	North East
2404227	Primary School	BARDIA PUBLIC SCHOOL	827m	South
2401150	Park	VANGUARD PARK	835m	South West
2406136	Park	RUSSELL COPEMAN PARK	879m	South
2394027	Park	MONT ST QUENTIN OVAL	973m	South

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

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

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

Tanks (Points)

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

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

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

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

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120107691	Primary	Undefined		993m	North East

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

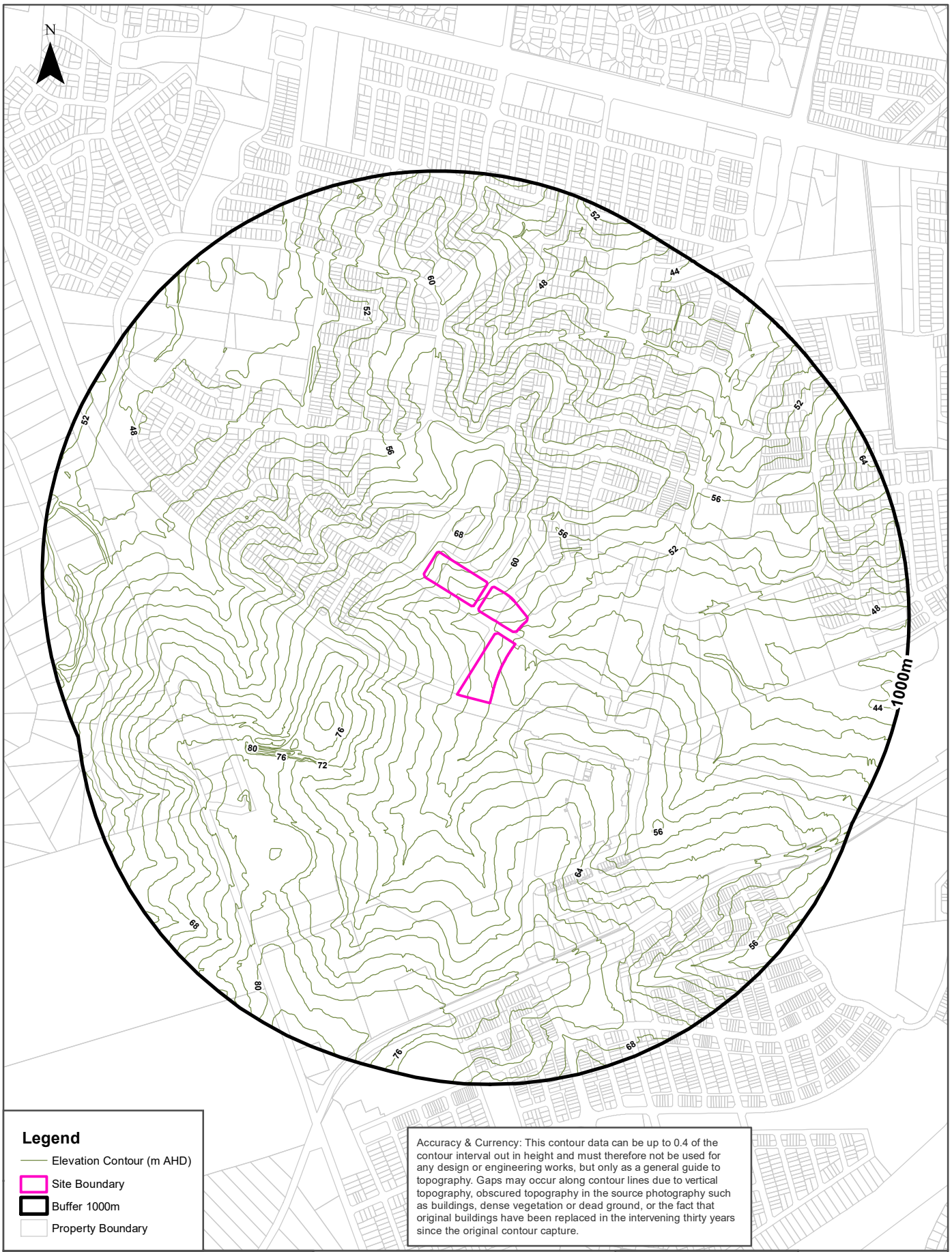
What State Forest exist within the dataset buffer?

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

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

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Hydrogeology & Groundwater

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Hydrogeology

Description of aquifers within the dataset buffer:

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

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

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024

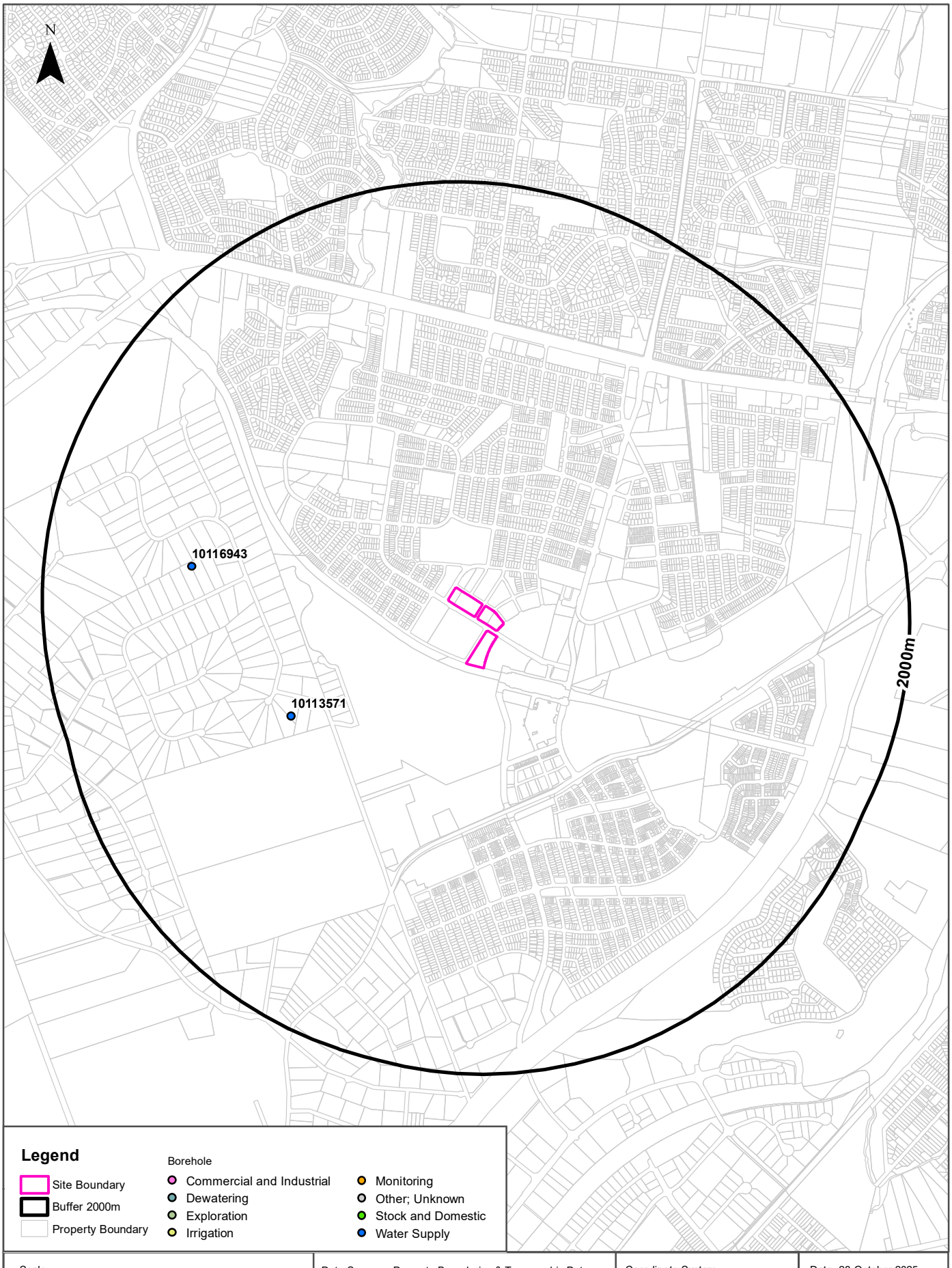
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

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

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024 Data Source : NSW Department of Primary Industries

Groundwater Boreholes

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Hydrogeology & Groundwater

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

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
10113571	GW115531	Water Supply	Functioning	09/01/2016	222.00		AHD				901m	South West
10116943	GW105200	Water Supply	Abandoned	22/05/2003	303.00		AHD	8000	0.300	13.00	1273m	West

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

Driller's Logs

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

NGIS Bore ID	Drillers Log	Distance	Direction
10116943	0.00m-0.30m TOPSOIL 0.30m-1.50m RED CLAY 1.50m-4.00m WEATHERED SHALE 4.00m-7.00m BROWN SHALE 7.00m-86.00m BLUE AND BLACK SHALE 86.00m-298.00m SANDSTONE/BANDS OF BLACK SHALE 298.00m-303.00m SLATE	1273m	West

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

Geology

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Legend

Linear Geological Structures and Boundaries

Site Boundary	Trendline	Marker Bed	Miscellaneous Boundary
Report Buffer	Fold Axis	Faulted Boundary	Water/Coastline Boundary
Property Boundary	Geological Boundary	Shear Zone or Schist Zone Boundary	State/Territory Border

Scale: 0 100 200 400 600 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025	Coordinate System: GDA 1994 MGA Zone 56	Date: 28 October 2025

Geology

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Geological Units

Geological units within the dataset buffer:

Code	Unit Name	Description	Stratigraphy	Age Range	Dominant Lithology	Dist	Dir
Twib	Bringelly Shale	Shale, carbonaceous claystone, laminite, lithic sandstone, rare coal.	/Wianamatta Group//Bringelly Shale//	Middle Triassic (base) to Middle Triassic (top)	Shale	0m	On-site
Q_av	Alluvial valley deposits	Silt, clay, (fluvially deposited) lithic to quartz-lithic sand, gravel.	/Alluvium//Alluvial valley deposits//	Quaternary (base) to Now (top)	Clastic sediment	654m	North West

Linear Geological Structures

Fault and shear or schist zone boundaries within the dataset buffer:

Map ID	Boundary Type	Feature Description	Fault Dip Angle	Fault Dip Direction	Dist	Dir
NA	No records in buffer					

Trendlines within the dataset buffer:

Map ID	Feature Description	Observation Method	Structure Name	Dist	Dir
NA	No records in buffer				

Fold axes within the dataset buffer:

Map ID	Feature Description	Observation Method	Structure Name	Dist	Dir
NA	No records in buffer				

Marker beds within the dataset buffer:

Map ID	Feature Description	Rock Unit Description	Dist	Dir
NA	No records in buffer			

Geological Data Source: Statewide Seamless Geology v2.4, NSW Department of Primary Industries and Regional Development
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Naturally Occurring Asbestos Potential

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Naturally Occurring Asbestos Potential

Naturally Occurring Asbestos Potential within the dataset buffer:

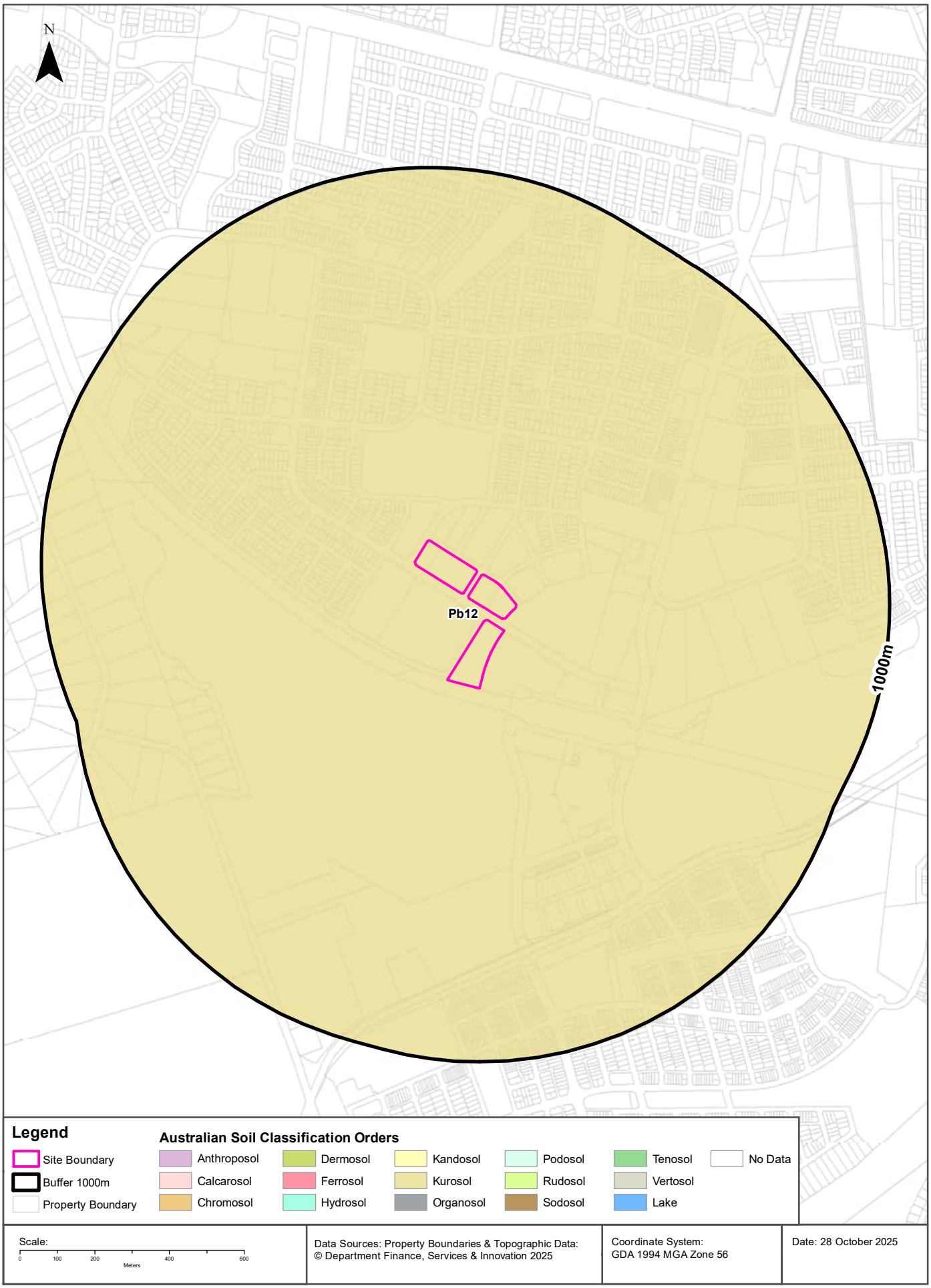
Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Naturally Occurring Asbestos Potential Data Source: Statewide Seamless Geology v2.4, NSW Department of Primary Industries and Regional Development

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Atlas of Australian Soils

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Soils

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Atlas of Australian Soils

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

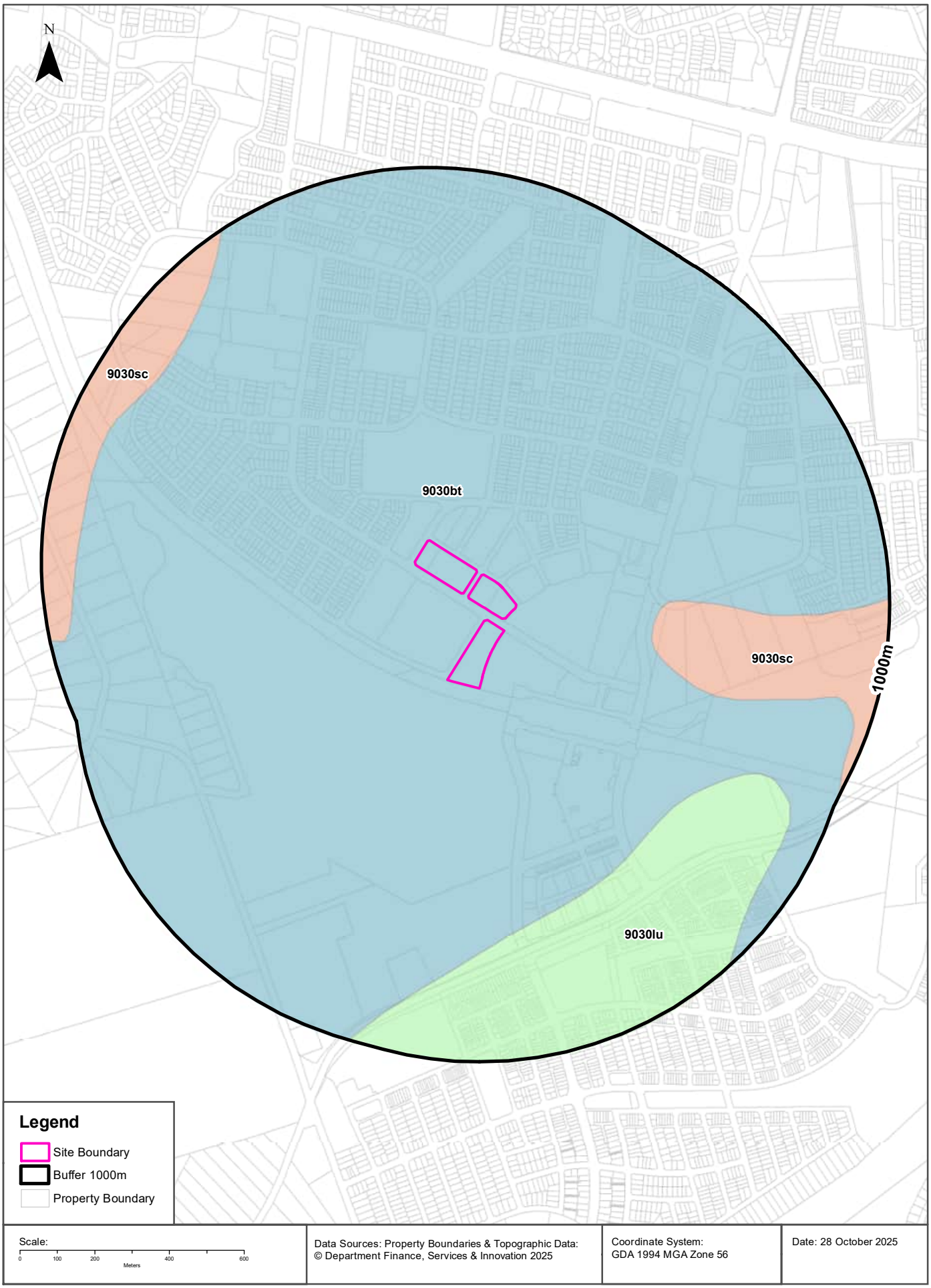
Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Pb12	Kurosol	Gently rolling to rounded hilly country with some steep slopes and broad valleys: chief soils are hard acidic red soils (Dr2.21) with hard neutral and acidic yellow mottled soils (Dy3.42 and Dy3.41) on lower slopes and in valleys. Associated are small areas of various soils including (Gn3.54) on some ridges, (Dr3.31) on some slopes; (Dr2.23) in saddles and some mid-slope positions, and some low- lying swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Small areas of other soils such as (Db1.2) are likely throughout.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO

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Soil Landscapes of Central and Eastern NSW

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Soil Landscapes of Central and Eastern NSW

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

Soil Code	Name	Distance	Direction
9030bt	Blacktown	0m	On-site
9030sc	South Creek	369m	East
9030lu	Luddenham	592m	South

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

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Environmental Planning Instrument - Acid Sulfate Soils

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

Soil Class	Description	EPI Name
N/A		

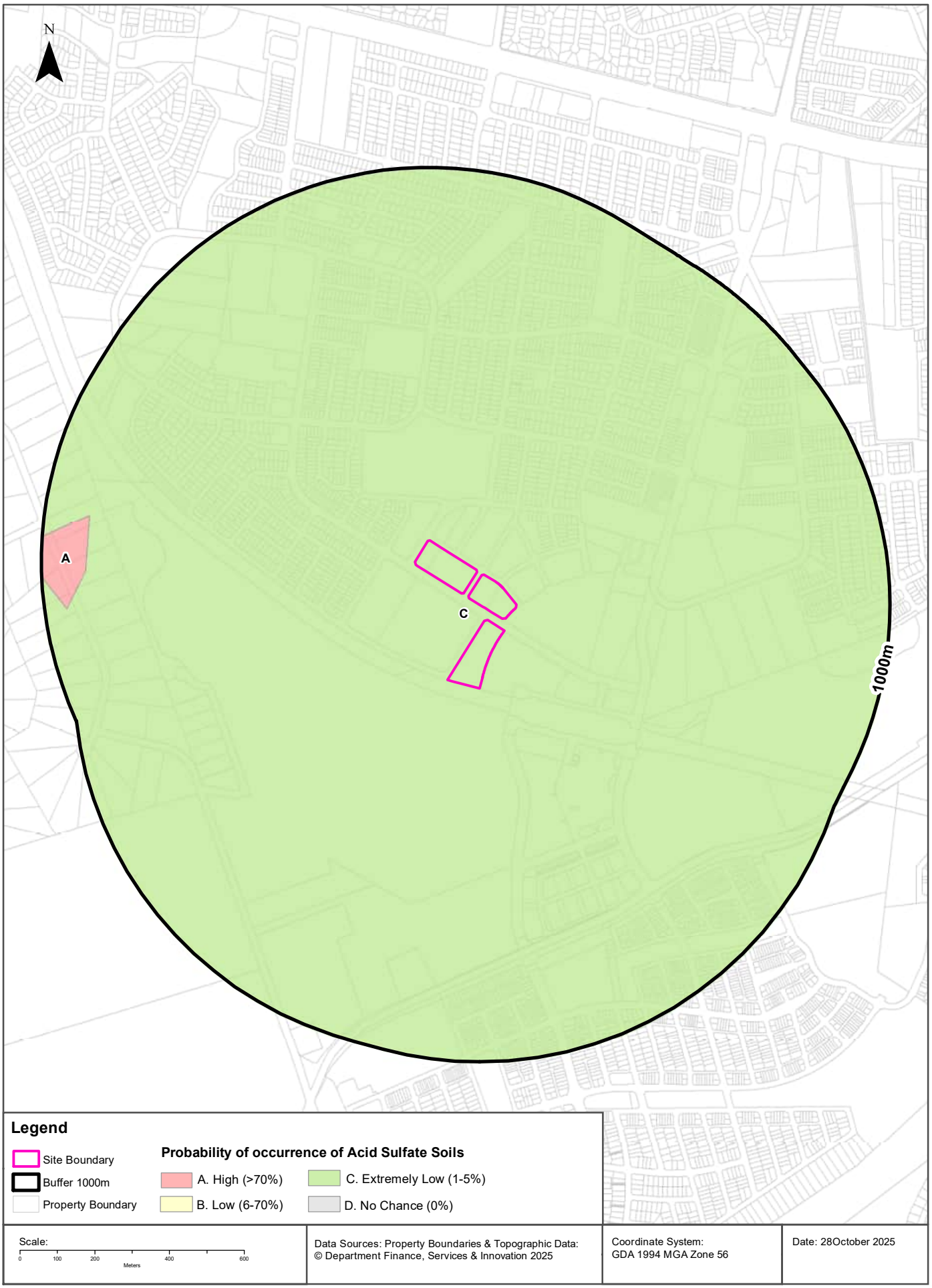
If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
N/A				

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Atlas of Australian Acid Sulfate Soils

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Acid Sulfate Soils

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Atlas of Australian Acid Sulfate Soils

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

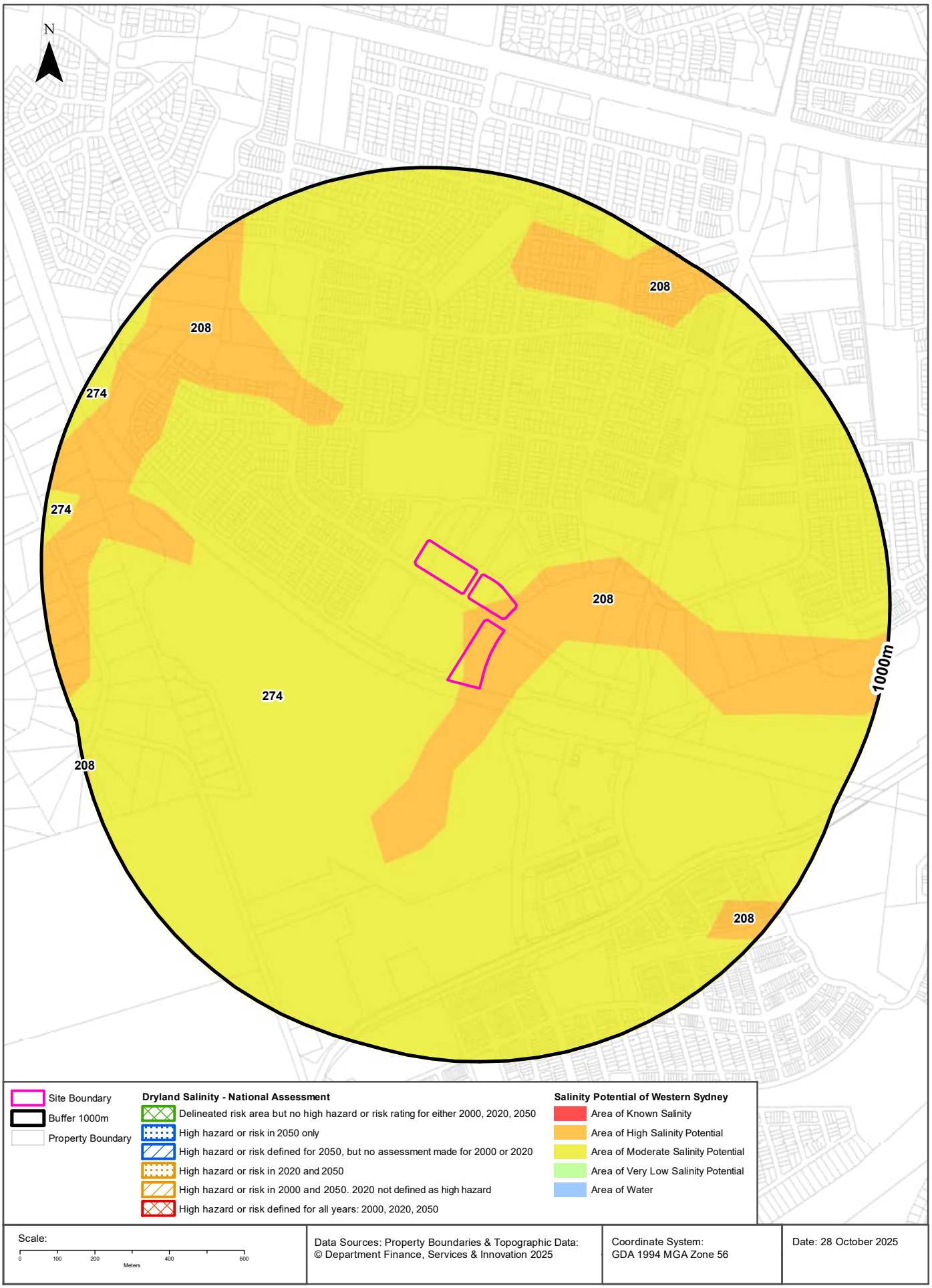
Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site
A	High Probability of occurrence. >70% chance of occurrence.	878m	West

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Dryland Salinity

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Dryland Salinity

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

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.

Dryland Salinity Potential of Western Sydney

Dryland Salinity Potential of Western Sydney within the dataset buffer?

Feature Id	Classification	Description	Distance	Direction
274	MODERATE	Area of Moderate Salinity Potential	0m	On-site
208	HIGH	Area of High Salinity Potential	0m	On-site

Dryland Salinity Potential of Western Sydney Data Source : NSW Office of Environment and Heritage
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Mining

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Mining Subsidence Districts

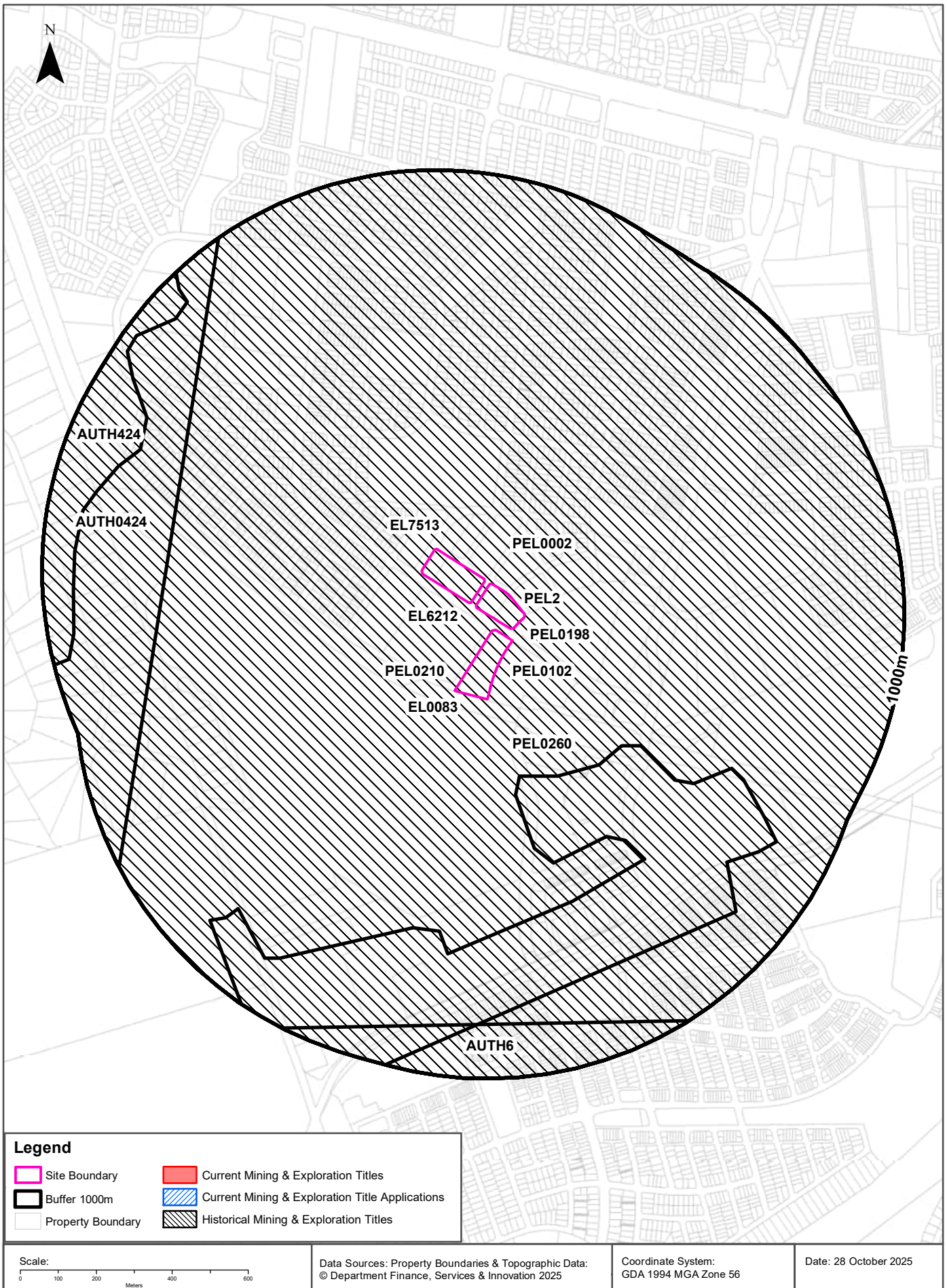
Mining Subsidence Districts within the dataset buffer:

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

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

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Mining

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

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: Statewide Seamless Geology v2.4, NSW Department of Primary Industries and Regional Development

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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: Statewide Seamless Geology v2.4, NSW Department of Primary Industries and Regional Development

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Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

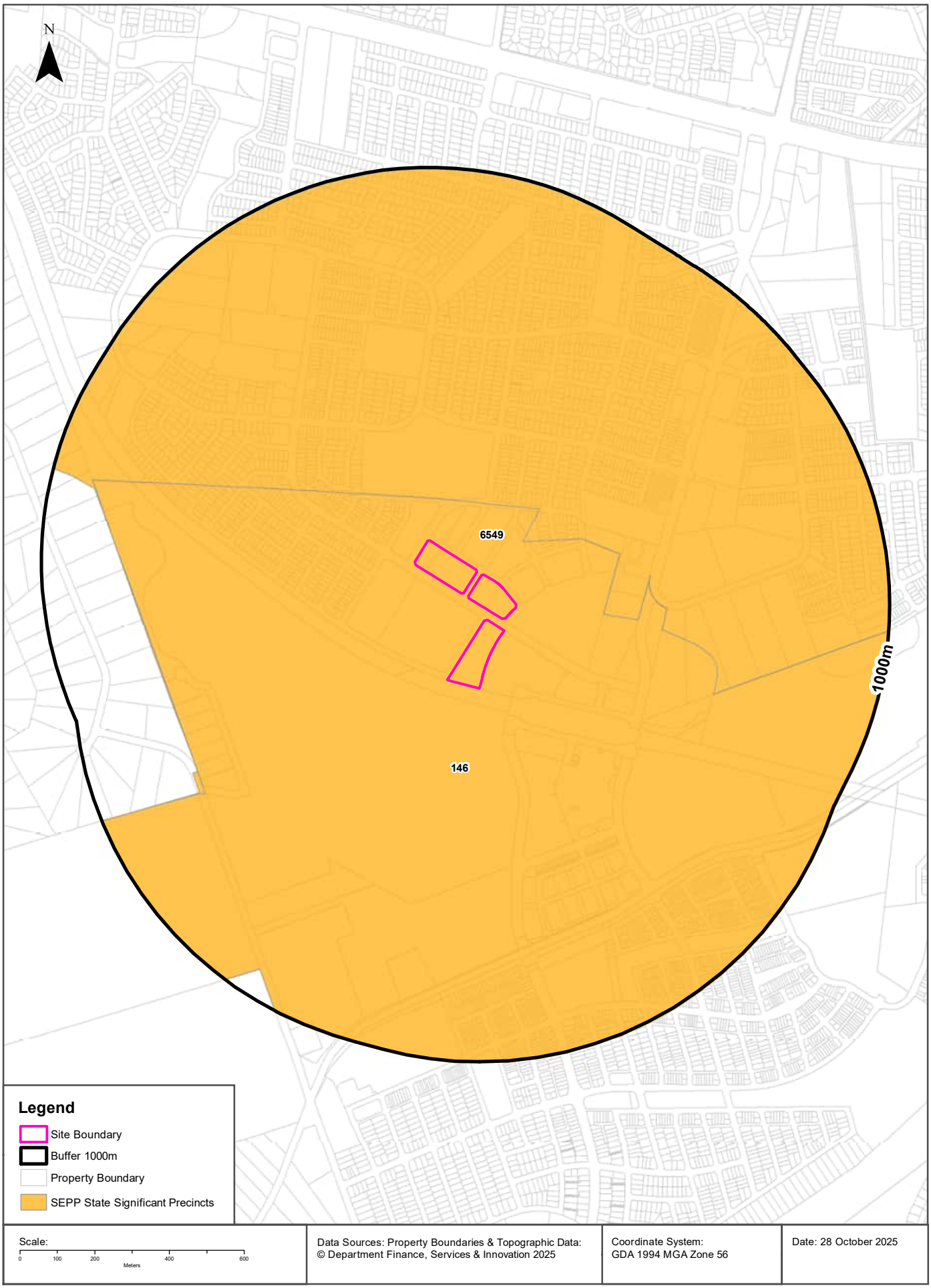
Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
PEL0102	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL0210	THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD			PETROLEUM	Petroleum	0m	On-site
PEL0002	AGL UPSTREAM INVESTMENTS PTY LIMITED	19950503	20150607	PETROLEUM	Petroleum	0m	On-site
PEL0198	JOHN STREVENS (TERRIGAL) NL			PETROLEUM	Petroleum	0m	On-site
PEL2	AGL UPSTREAM INVESTMENTS PTY LIMITED	20000120	20001108	MINERALS		0m	On-site
PEL0260	NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO.	19810909	19930803	PETROLEUM	Petroleum	0m	On-site
EL0083	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	19670201	19680201	MINERALS		0m	On-site
EL7513	GRADIENT ENERGY LIMITED	20100407	20110415	MINERALS	Geothermal	0m	On-site
EL6212	HOT ROCK ENERGY PTY LTD,LONGREACH OIL LIMITED	20040304	20130303	MINERALS	Geothermal	0m	On-site
AUTH0424	SECRETARY OF THE DEPARTMENT OF PLANNING AND ENVIRONMENT	19900119	20190501	COAL	Coal	666m	West
AUTH424	SECRETARY OF THE DEPARTMENT OF PLANNING AND ENVIRONMENT	20000407	20040501	MINERALS		807m	West
AUTH6	SECRETARY OF THE DEPARTMENT OF PLANNING, INDUSTRY AND ENVIRONMENT	20000926	20030501	MINERALS		857m	South

Historical Mining & Exploration Titles Data Source: Statewide Seamless Geology v2.4, NSW Department of Primary Industries and Regional Development

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SEPP State Significant Precincts

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



State Environmental Planning Policy

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

State Significant Precincts

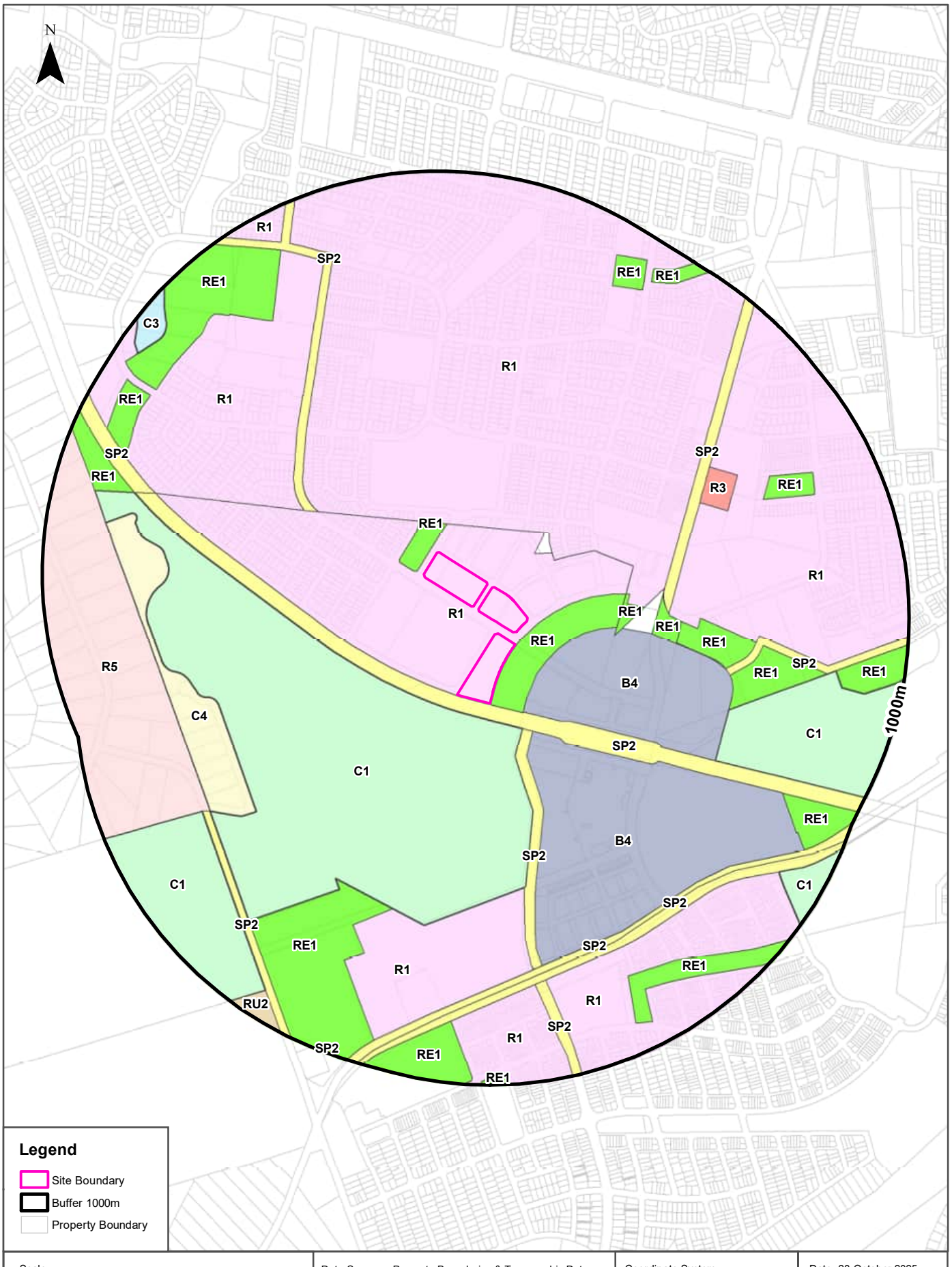
What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
6549		State Environmental Planning Policy (Precincts - Western Parkland City) 2021	02/12/2021	01/03/2022	01/03/2022		0m	On-site
146	Edmondson Park South	State Environmental Planning Policy (Precincts - Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		0m	On-site

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

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Environmental Planning Instrument

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R1	General Residential		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		0m	On-site
SP2	Infrastructure	Railway	State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		0m	South
RE1	Public Recreation		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		0m	South East
RE1	Public Recreation		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		21m	North West
C1	National Parks and Nature Reserves		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		40m	South West
R1	General Residential		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	81m	North
B4	Mixed Use		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		88m	South East
SP2	Infrastructure	Local Road	State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		105m	South
B4	Mixed Use		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		131m	South East
RE1	Public Recreation		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	230m	East
SP2	Infrastructure	Local Road	Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	324m	North West
RE1	Public Recreation		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		327m	East
R1	General Residential		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	358m	North West
SP2	Infrastructure	Local Road	Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	360m	North East
R1	General Residential		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	370m	East
RE1	Public Recreation		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	394m	East
R1	General Residential		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		487m	South
SP2	Infrastructure	Local Road	Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	533m	East

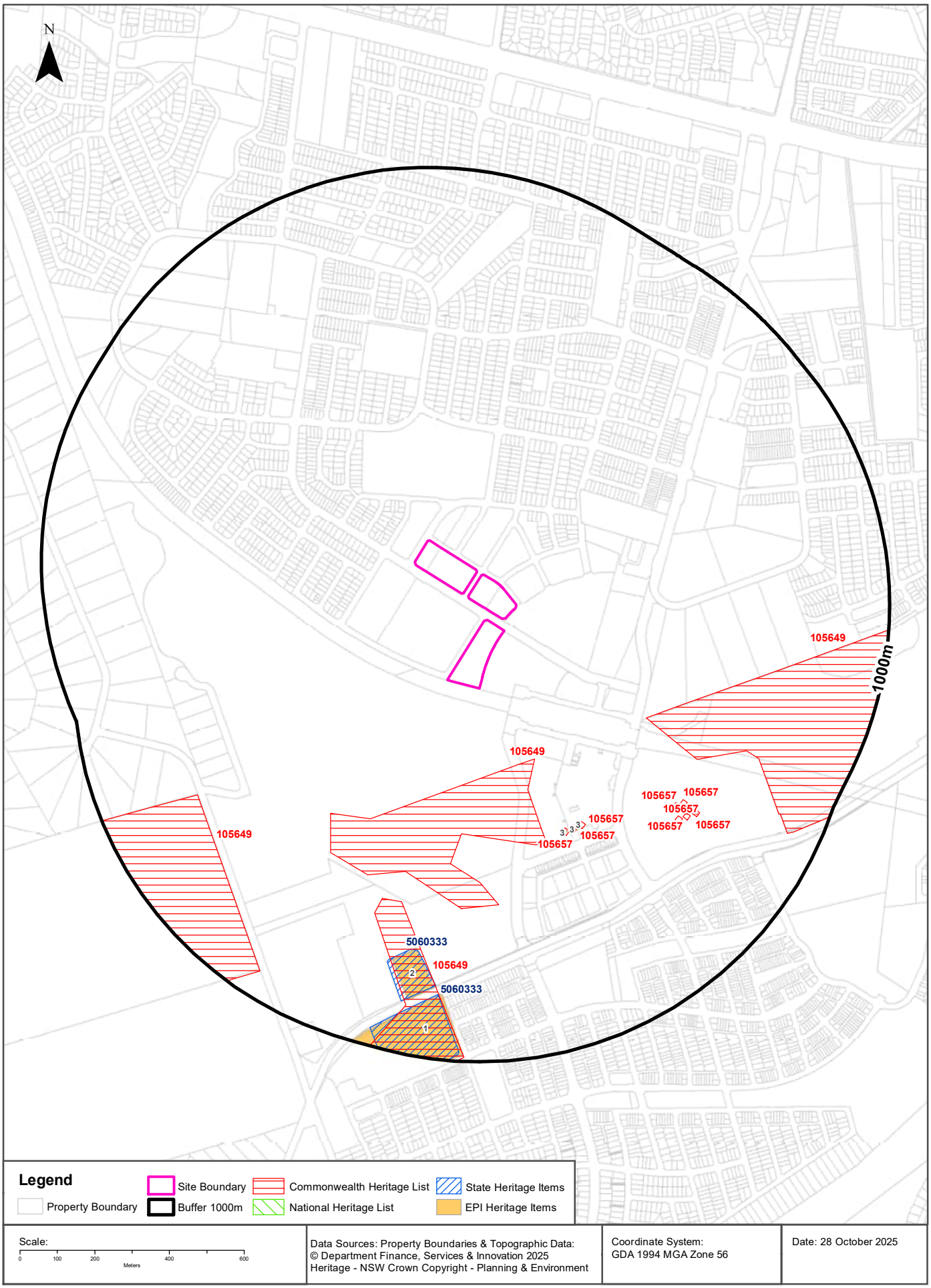
Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R3	Medium Density Residential		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	544m	North East
RE1	Public Recreation		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	548m	East
RE1	Public Recreation		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		573m	South West
C1	National Parks and Nature Reserves		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		574m	East
C4	Environmental Living		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		598m	West
SP2	Infrastructure	Classified Road	State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		682m	South
RE1	Public Recreation		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	692m	North East
SP2	Infrastructure	Classified Road	State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		698m	South
R5	Large Lot Residential		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	713m	West
SP2	Infrastructure	Local Road	State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		716m	South West
R1	General Residential		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		719m	South East
C1	National Parks and Nature Reserves		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		735m	South West
SP2	Infrastructure	Local Road	State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		735m	South
SP2	Infrastructure	Railway	Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	736m	North West
R1	General Residential		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		742m	South
RE1	Public Recreation		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	749m	North West
RE1	Public Recreation		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	790m	West
RE1	Public Recreation		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		797m	South East
RE1	Public Recreation		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		798m	South East
RE1	Public Recreation		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		817m	East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		835m	South
RE1	Public Recreation		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	836m	North East
RE1	Public Recreation		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	842m	North West
C1	National Parks and Nature Reserves		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		873m	South East
RE1	Public Recreation		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	899m	North East
R1	General Residential		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	914m	North West
C3	Environmental Management		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	918m	North West
RU2	Rural Landscape		Liverpool Local Environmental Plan 2008	21/04/2023	26/04/2023	10/01/2025	Map Amendment No 6	922m	South West
RE1	Public Recreation		State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		967m	South
SP2	Infrastructure	Substation	State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022		981m	South

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Heritage Items

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Heritage

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

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
105649	Ingleburn Army Camp	Campbelltown Rd, Ingleburn Village NSW	1/15/010/0042	Historic	Place removed from CHL		227m	South
105657	Prefabricated Cottages Ingleburn Village	Bass Rd, Ingleburn Village NSW	1/15/010/0045	Historic	Place removed from CHL		438m	South East

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

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

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

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

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

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
5060333	Ingleburn Military Heritage Precinct and Mont St Quentin Oval	Campbelltown Road Ingleburn	CAMPBELLTOWN	15/03/2013	01891	2482	720m	South
5060333	Ingleburn Military Heritage Precinct and Mont St Quentin Oval	Campbelltown Road Ingleburn	CAMPBELLTOWN	15/03/2013	01891	2482	827m	South

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

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

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
3	Ingleburn Village sitethree Riley-Newsum pre-fabricated cottages (moveable items)	Item - General	Local	State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022	436m	South
3	Ingleburn Village sitethree Riley-Newsum pre-fabricated cottages (moveable items)	Item - General	Local	State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022	443m	South East
3	Ingleburn Village sitethree Riley-Newsum pre-fabricated cottages (moveable items)	Item - General	Local	State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022	444m	South East
2	Ingleburn Military Heritage Precinct	Item - General	State	State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022	714m	South
1	Mont St Quentin Oval, including entry gates	Item - General	State	State Environmental Planning Policy (Precincts?Western Parkland City) 2021	02/12/2021	01/03/2022	25/03/2022	822m	South

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Natural Hazards - Bush Fire Prone Land

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Data Sources: Bush Fire Prone Land: © NSW Rural Fire Service 2025. Property Boundaries: © Department Finance, Services & Innovation 2025

Coordinate System: GDA 1994 MGA Zone 56

Date: 28 October 2025

Natural Hazards

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Bush Fire Prone Land

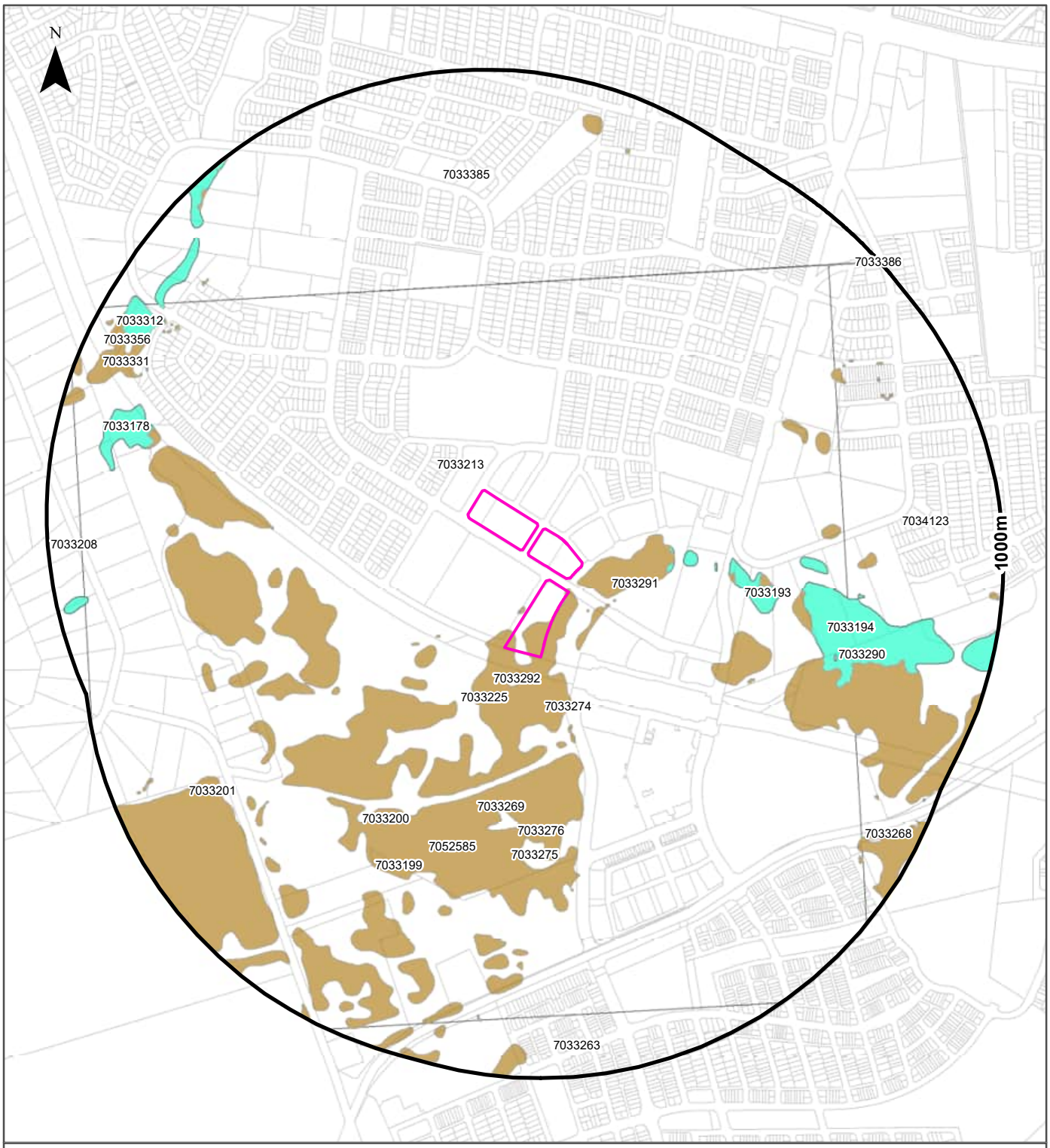
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
Vegetation Buffer	0m	On-site
Vegetation Category 1	40m	South
Vegetation Category 3	40m	South West
Vegetation Category 2	799m	South East

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

Ecological Constraints - Vegetation & Ramsar Wetlands

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



- 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 Meters

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025

Coordinate System: GDA 1994 MGA Zone 56

Date: 28 October 2025

Ecological Constraints

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
7033213	Not classified	(Not classified) Not classified	Not classified	0m	On-site
7052585	Grassy Woodlands	(Grassy Woodlands) Cumberland Shale Plains Woodland	Coastal Valley Grassy Woodlands	0m	On-site
7033292	Not classified	(Not classified) Not classified	Not classified	58m	South
7033225	Not classified	(Not classified) Not classified	Not classified	114m	South
7033274	Not classified	(Not classified) Not classified	Not classified	123m	South
7033291	Not classified	(Not classified) Not classified	Not classified	128m	East
7033193	Forested Wetlands	(Forested Wetlands) Cumberland Blue Box Riverflat Forest	Coastal Floodplain Wetlands	200m	East
7033269	Not classified	(Not classified) Not classified	Not classified	354m	South
7033276	Not classified	(Not classified) Not classified	Not classified	407m	South
7033275	Not classified	(Not classified) Not classified	Not classified	428m	South
7033200	Not classified	(Not classified) Not classified	Not classified	481m	South West
7033385	Not classified	(Not classified) Not classified	Not classified	490m	North
7033194	Forested Wetlands	(Forested Wetlands) Cumberland Blue Box Riverflat Forest	Coastal Floodplain Wetlands	517m	East
7033199	Not classified	(Not classified) Not classified	Not classified	569m	South West
7034123	Not classified	(Not classified) Not classified	Not classified	623m	East
7033293	Not classified	(Not classified) Not classified	Not classified	634m	East
7033289	Not classified	(Not classified) Not classified	Not classified	661m	East
7033290	Not classified	(Not classified) Not classified	Not classified	686m	East
7033201	Not classified	(Not classified) Not classified	Not classified	763m	South West
7033178	Forested Wetlands	(Forested Wetlands) Coastal Valleys Riparian Forest	Coastal Floodplain Wetlands	765m	West
7033263	Not classified	(Not classified) Not classified	Not classified	849m	South
7033312	Forested Wetlands	(Forested Wetlands) Cumberland Blue Box Riverflat Forest	Coastal Floodplain Wetlands	854m	North West
7033331	Not classified	(Not classified) Not classified	Not classified	885m	North West
7033265	Not classified	(Not classified) Not classified	Not classified	886m	South East
7033356	Not classified	(Not classified) Not classified	Not classified	891m	North West
7033268	Not classified	(Not classified) Not classified	Not classified	917m	South East
7033208	Not classified	(Not classified) Not classified	Not classified	920m	West
7033386	Not classified	(Not classified) Not classified	Not classified	997m	North East

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

What Ramsar Wetland areas exist within the dataset buffer?

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

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

Ecological Constraints - Protected Areas

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Legend

IUCN category

- Site Boundary
- Buffer 1000m
- Property Boundary
- Strict Nature Reserve
- Wilderness Area
- National Park
- Natural Monument or Feature
- Habitat/Species Management Area
- Protected Landscape/Seascape
- Protected area sustainable use of natural resources
- Uncategorised Protected Area

Scale: 0 100 200 400 600 Meters

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025

Coordinate System: GDA 1994 MGA Zone 56

Date: 28 October 2025

Ecological Constraints

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

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
1	Edmondson	Regional Park	Protected Landscape/Seascape	NSW Department of Planning and Environment	State	736m	South West

Collaborative Australian Protected Areas Database - Marine

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

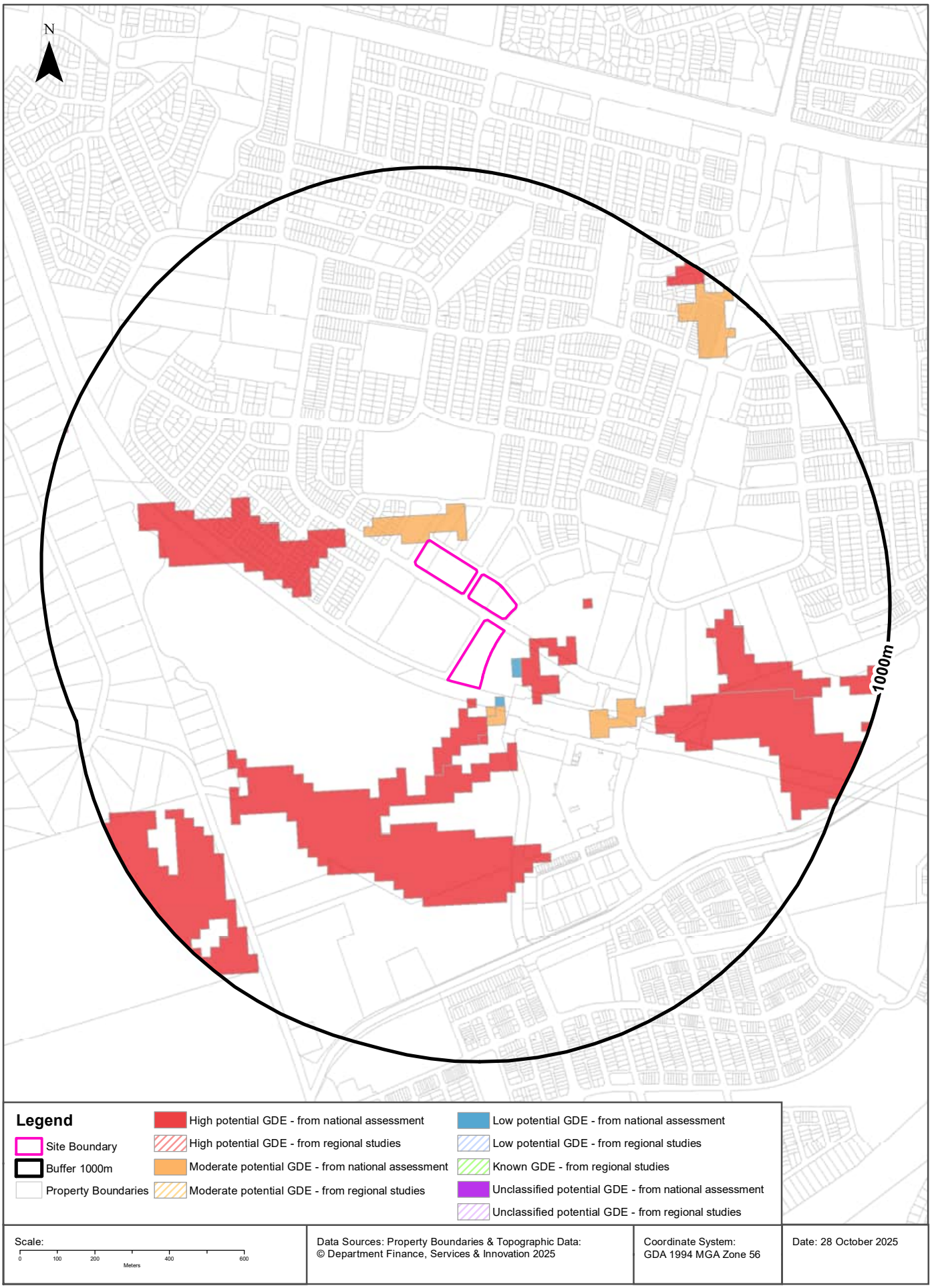
Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
N/A	No records in buffer						

Source: Collaborative Australian Protected Areas Database (CAPAD) 2022

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Ecological Constraints - Groundwater Dependent Ecosystems Atlas

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Ecological Constraints

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Groundwater Dependent Ecosystems Atlas

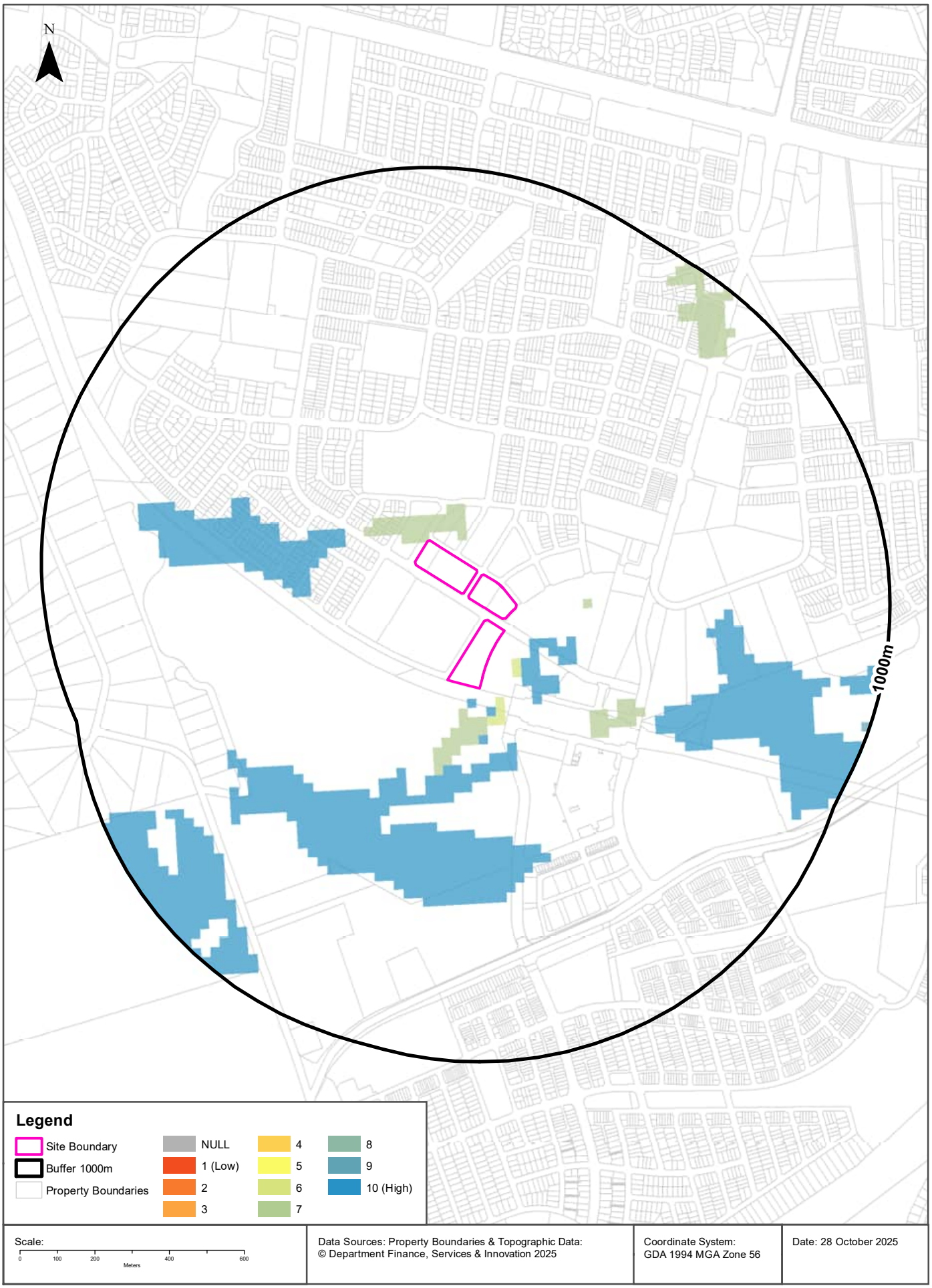
Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	Moderate potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	0m	On-site
Terrestrial	High potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	25m	South
Terrestrial	Low potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	44m	South

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology

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Ecological Constraints - Inflow Dependent Ecosystems Likelihood

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174



Ecological Constraints

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	7	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	0m	On-site
Terrestrial	10	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	25m	South
Terrestrial	6	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	44m	South
Terrestrial	9	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	971m	East
Terrestrial	8	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	993m	North West

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology

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Ecological Constraints

4-7 & 8 Buchan Avenue, Edmondson Park, NSW 2174

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	Amphibia	Helicioporus australiacus	Giant Burrowing Frog	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Amphibia	Litoria aurea	Green and Golden Bell Frog	Not Sensitive	Endangered	Vulnerable	
Animalia	Amphibia	Pseudophryne australis	Red-crowned Toadlet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Anseranas semipalmata	Magpie Goose	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Anthochaera phrygia	Regent Honeyeater	Category 2	Critically Endangered	Critically Endangered	
Animalia	Aves	Aphelocephala leucopsis	Southern Whiteface	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Ardenna tenuirostris	Short-tailed Shearwater	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Botaurus poiciloptilus	Australasian Bittern	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Burhinus grallarius	Bush Stone-curlew	Not Sensitive	Endangered	Not Listed	
Animalia	Aves	Calidris ferruginea	Curlew Sandpiper	Not Sensitive	Critically Endangered	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Category 3	Endangered	Endangered	
Animalia	Aves	Calyptorhynchus banksii samueli	Red-tailed Black-Cockatoo (inland subspecies)	Category 2	Vulnerable	Not Listed	
Animalia	Aves	Calyptorhynchus lathami lathami	South-eastern Glossy Black-Cockatoo	Category 2	Vulnerable	Vulnerable	
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	Columba vitiensis godmanae	White-throated Pigeon (Lord Howe Is. subsp.)	Not Sensitive	Extinct	Extinct	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Not Sensitive	Endangered Population, Vulnerable	Not Listed	
Animalia	Aves	Falco hypoleucos	Grey Falcon	Category 2	Vulnerable	Vulnerable	
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	Haematopus longirostris	Pied Oystercatcher	Not Sensitive	Endangered	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Not Sensitive	Vulnerable	Not Listed	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
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	Ixobrychus flavicollis	Black Bittern	Not Sensitive	Vulnerable	Not Listed	
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	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 connivens	Barking Owl	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Parvipsitta pusilla	Little Lorikeet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Sensitive	Vulnerable	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Category 3	Vulnerable	Vulnerable	
Animalia	Aves	Ptilinopus regina	Rose-crowned Fruit-Dove	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pyrrholaemus sagittatus	Speckled Warbler	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Thalasseus bergii	Crested Tern	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Sensitive	Endangered	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Category 3	Vulnerable	Not Listed	
Animalia	Gastropoda	Meridolum corneovirens	Cumberland Plain Land Snail	Not Sensitive	Endangered	Not Listed	
Animalia	Mammalia	Aepyprymnus rufescens	Rufous Bettong	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Cercartetus nanus	Eastern Pygmy-possum	Not Sensitive	Vulnerable	Not Listed	
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	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 australis	Little Bent-winged Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Notamacropus dorsalis	Black-striped Wallaby	Not Sensitive	Endangered	Not Listed	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Pseudomys novaehollandiae	New Holland Mouse	Not Sensitive	Vulnerable	Vulnerable	
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	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Vespadelus troughtoni	Eastern Cave Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Aprasia parapulchella	Pink-tailed Legless Lizard	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Reptilia	Caretta caretta	Loggerhead Turtle	Not Sensitive	Endangered	Endangered	
Animalia	Reptilia	Chelonia mydas	Green Turtle	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Reptilia	Cyclodomorphus melanops elongatus	Mallee Slender Blue-tongue Lizard	Not Sensitive	Endangered	Not Listed	
Animalia	Reptilia	Hemiaspis damelii	Grey Snake	Not Sensitive	Endangered	Endangered	
Animalia	Reptilia	Tiliqua multifasciata	Centralian Blue-tongued Lizard	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Tiliqua occipitalis	Western Blue-tongued Lizard	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Varanus rosenbergi	Rosenberg's Goanna	Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Acacia bynoeana	Bynoe's Wattle	Not Sensitive	Endangered	Vulnerable	
Plantae	Flora	Acacia pubescens	Downy Wattle	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Allocasuarina diminuta subsp. mimica		Not Sensitive	Endangered Population	Not Listed	
Plantae	Flora	Argyrotegium nitidulum	Shining Cudweed	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Callistemon linearifolius	Netted Bottle Brush	Category 3	Vulnerable	Not Listed	
Plantae	Flora	Cryptostylis hunteriana	Leafless Tongue Orchid	Category 2	Vulnerable	Vulnerable	
Plantae	Flora	Cymbidium canaliculatum	Tiger Orchid	Category 2	Not Listed	Not Listed	
Plantae	Flora	Dillwynia tenuifolia		Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Diuris aequalis	Buttercup Doubletail	Category 2	Endangered	Endangered	
Plantae	Flora	Epacris purpurascens var. purpurascens		Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Eucalyptus nicholii	Narrow-leaved Black Peppermint	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Eucalyptus scoparia	Wallangarra White Gum	Not Sensitive	Endangered	Vulnerable	
Plantae	Flora	Grevillea juniperina subsp. juniperina	Juniper-leaved Grevillea	Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Grevillea parviflora subsp. parviflora	Small-flower Grevillea	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Gyrostemon thesioides		Category 3	Endangered	Not Listed	
Plantae	Flora	Hibbertia fumana		Not Sensitive	Critically Endangered	Not Listed	
Plantae	Flora	Hibbertia puberula		Not Sensitive	Endangered	Not Listed	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Hibbertia sp. Bankstown		Not Sensitive	Critically Endangered	Critically Endangered	
Plantae	Flora	Leucopogon exolasius	Woronora Beard-heath	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Leucopogon fletcheri subsp. fletcheri		Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Macadamia integrifolia	Macadamia Nut	Not Sensitive	Not Listed	Vulnerable	
Plantae	Flora	Macadamia tetraphylla	Rough-shelled Bush Nut	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Marsdenia viridiflora subsp. viridiflora	Native Pear	Not Sensitive	Endangered Population	Not Listed	
Plantae	Flora	Melaleuca deanei	Deane's Paperbark	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Micromyrtus minutiflora		Not Sensitive	Endangered	Vulnerable	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Category 3	Endangered	Endangered	
Plantae	Flora	Persoonia nutans	Nodding Geebung	Not Sensitive	Endangered	Endangered	
Plantae	Flora	Pimelea spicata	Spiked Rice-flower	Not Sensitive	Endangered	Endangered	
Plantae	Flora	Pomaderris brunnea	Brown Pomaderris	Not Sensitive	Endangered	Vulnerable	
Plantae	Flora	Pterostylis saxicola	Sydney Plains Greenhood	Category 2	Endangered	Endangered	
Plantae	Flora	Pultenaea parviflora		Not Sensitive	Endangered	Vulnerable	
Plantae	Flora	Pultenaea pedunculata	Matted Bush-pea	Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Senna acclinis	Rainforest Cassia	Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Not Sensitive	Vulnerable	Vulnerable	

Source: NSW BioNet Species Sightings

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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:

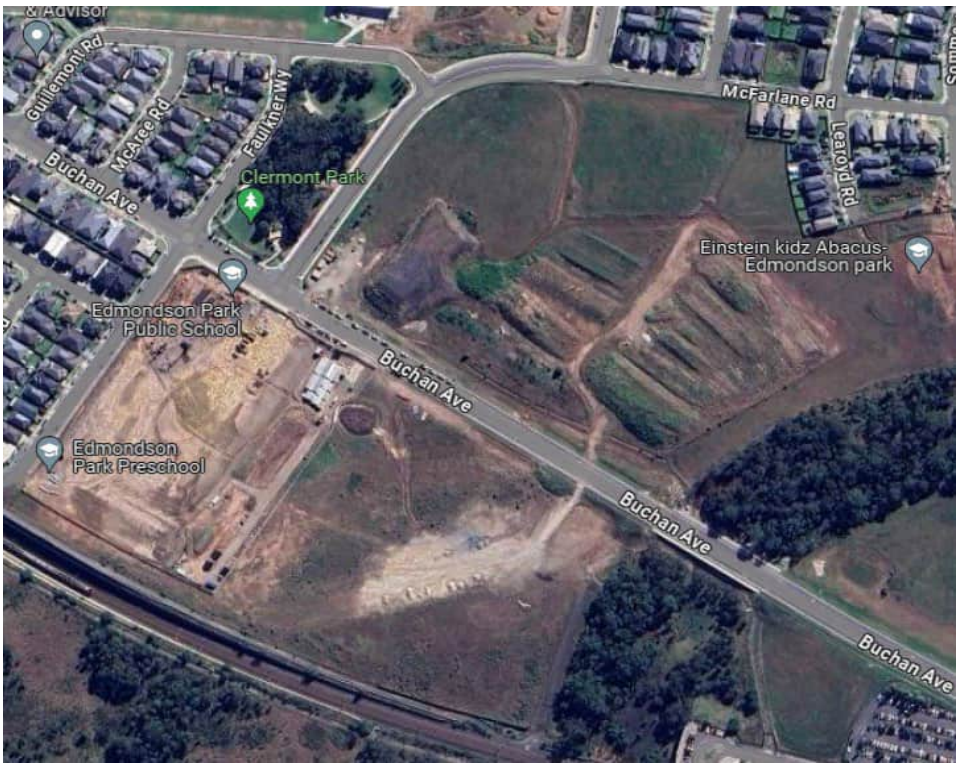
LC Code	Location Confidence
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered 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

Click for Use of Report - Applicable Terms

Appendix E – Earthworks Report (ASCT Illawarra)

ASCT Illawarra
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Earthworks Report - AS 3798 Level 1
for
LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park



Prepared For:
TRN Group
TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570
Reference Number: 314-11
Laboratory Number: 16491
Date: 17/10/2023

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1.0 Introduction

Australian Soil & Concrete Testing P/L (ASCT) was commissioned by Troy Lilliendal, on behalf of TRN Group (the Contractor). ASCT was engaged in the role of *Geotechnical Inspection & Testing Authority* (the GITA), to provide 'Level 1' services in accordance with section 8.2 of *AS 3798 – 'Guidelines on earthworks for commercial and residential developments'.*

This engagement included the inspection and testing of construction earthworks at the Edmondson Park Buchan Ave, Precinct 9 Bulk Earthworks. Specifically, the filling of the proposed subdivision lots, roads, and adjacent verges. A graphical representation of the extent of earthworks covered by this report, is provided in Appendix A.

The earthworks were undertaken by TRN Group (the Constructor).

2.0 Earthworks

The site is located at Buchan Ave, Edmondson Perk and surrounded by existing Subdivisions.

The subject earthworks were commenced on the 17/10/2023 and concluded on the 26/2/2024.

Filling operations were undertaken using Site Won. These materials generally consisted of Silty Gravelly CLAY. The materials exhibited low to medium plasticity.

Fill materials were moisture conditioned, placed in layers not exceeding 300mm, and compacted in place using a *815 Compactor*.

3.0 Specifications

In the absence of a project specific earthworks specification, ASCT adopted the following criteria;

Compaction	-	Minimum 95% Standard (AS 3798, Table 5.1).
Moisture	-	Material OMC ± 2% (AS 3798, section 5.3).
Layer	-	Max 300mm Thickness

4.0 Inspection & Testing Procedure

Inspections were provided by experienced ASCT Technicians, to confirm that earthworks were constructed to the principles of AS 3798 section 6.2 'Fill Construction'.
These inspections included (as appropriate).

a) The adequate removal of topsoil and organics.
b) The soundness of the fill foundation, to provide a dense stable surface for filling.
c) The profile of the fill foundation, including appropriate benching/keying of slope interface.
d) The placement of imported, and/or site won materials.
e) The moisture conditioning of materials, and subsequent compaction.
f) Test rolling.
g) Testing (Field & Laboratory).

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Testing was carried out by ASCT Technicians, in accordance with the Australian Standards AS 1289. The frequency of testing was in accordance with AS 3798 Table 8.1.

Test locations were randomly selected by ASCT. The tests were generally distributed evenly throughout the earthworks, having regard for any areas of concern observed during inspections.

The reported test locations were determined by ASCT. They were not professionally surveyed and should be considered as approximate only.

In the conduct of the inspections & testing (above), ASCT was afforded full access to the works without impairment or undue influence of any kind.

All test results (e.g.: Moisture Content, Moisture Variation & Relative Compaction) have been completed, calculated, rounded & reported strictly in accordance with the stated test methods – By ASCT, without fear or favour of any kind.

5.0 Results of Compliance Testing

The assessment of compaction test results against the specification, was conducted on a 'not any to fail' basis (see AS 3798 Appendix C). As such, if any test result failed to meet the specification - the earthworks portion represented by that test result has been re-worked & re-tested by ASCT.

ASCT can confirm that all test results indicate that the earthwork materials have been compacted in accordance with AS 3798.

All test reports pertaining to the earthworks are included in Appendix B.

A summary of the Field Density test reports is provided, below.

ASCT Illawarra
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Lab #	Date	Lot	Material	Chainage	Offset	Level	Density	Moisture
16491	17/10/23	-	Site Won	302114	6239403	51.284	104.0	101.5
16492	17/10/23	-	Site Won	302131	6239388	50.945	103.5	98.5
16493	18/10/23	-	Site Won	302126	6239435	51.721	101.5	102.5
16494	18/10/23	-	Site Won	302143	6239446	51.857	98.5	97.0
16495	18/10/23	-	Site Won	302105	6239452	51.409	99.0	98.0
16496	19/10/23	-	Site Won	302139	6239439	51.761	101.0	91.5
16497	19/10/23	-	Site Won	302116	6239425	52.506	98.5	103.5
16498	19/10/23	-	Site Won	302066	6239438	52.685	103.5	90.5
16499	20/10/23	-	Site Won	302117	6239401	53.515	100.5	104.0
16500	20/10/23	-	Site Won	302094	6239415	53.382	103.0	85.5
16501	20/10/23	-	Site Won	302078	6239432	53.172	103.5	89.5
16502	23/10/23	-	Site Won	302160	6239435	52.641	102.0	90.5
16503	23/10/23	-	Site Won	302166	6239435	52.964	98.0	101.5
16504	23/10/23	-	Site Won	302170	6239453	53.117	103.5	88.0
16505	23/10/23	-	Site Won	302163	6239470	52.514	100.0	90.5
16866	24/10/23	-	Site Won	302165	6239463	51.751	104.0	98.5
16867	24/10/23	-	Site Won	302123	6239442	52.609	102.0	100.0
16868	24/10/23	-	Site Won	302061	6239438	52.888	98.0	99.0
16869	25/10/23	-	Site Won	302083	6239448	52.227	101.5	99.0
16870	25/10/23	-	Site Won	302132	6239466	52.753	100.0	100.0
16871	25/10/23	-	Site Won	302151	6239439	52.58	101.0	101.0
16872	26/10/23	-	Site Won	302159	6239460	52.372	102.0	97.0
16873	26/10/23	-	Site Won	302067	6239436	53.318	100.0	97.5
16874	26/10/23	-	Site Won	302139	6239403	53.226	101.0	97.0
16875	27/10/23	-	Site Won	302148	6239438	52.716	102.0	97.0
16876	27/10/23	-	Site Won	302135	6239380	53.627	100.0	98.5
16877	27/10/23	-	Site Won	302090	6239438	53.683	102.0	96.0
16878	30/10/23	-	Site Won	302101	6239451	52.958	98.5	87.0
16879	30/10/23	-	Site Won	302069	6239421	53.711	100.0	87.0
16880	30/10/23	-	Site Won	302134	6239392	53.788	100.5	87.5
17074	31/10/23	-	Site Won	302088	6239452	53.428	99.5	90.0
17075	31/10/23	-	Site Won	302123	6239457	52.967	98.0	90.5
17076	1/11/23	-	Site Won	302070	6239447	54.019	101.0	95.5
17077	1/11/23	-	Site Won	302122	6239456	53.367	100.5	86.5
17078	1/11/23	-	Site Won	302175	6239375	53.591	100.5	90.0
17079	2/11/23	-	Site Won	302056	6239416	54.714	102.0	89.0
17080	2/11/23	-	Site Won	302111	6239452	53.871	100.0	90.0
17081	2/11/23	-	Site Won	302168	6239468	52.568	102.0	88.5
17082	3/11/23	-	Site Won	302055	6239411	55.103	98.5	91.0
17083	3/11/23	-	Site Won	302089	6239445	54.567	102.5	98.0
17084	3/11/23	-	Site Won	302164	6239474	52.486	101.0	87.5
17085	3/11/23	-	Site Won	302228	6239474	51.449	101.0	88.5

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Lab #	Date	Lot	Material	Chainage	Offset	Level	Density	Moisture
17086	6/11/23	-	Site Won	302190	6239430	52.513	100.5	90.0
17087	6/11/23	-	Site Won	302171	6239356	53.944	99.5	88.5
17088	6/11/23	-	Site Won	302186	6239389	52.286	99.5	91.0
17331	7/11/23	-	Site Won	301874	6239454	53.887	100.0	98.0
17332	7/11/23	-	Site Won	301880	6239444	54.017	98.0	99.0
17333	7/11/23	-	Site Won	301883	6239437	54.38	98.5	97.5
17334	7/11/23	-	Site Won	302224	6239414	52.462	99.0	99.5
17335	7/11/23	-	Site Won	302206	6239379	52.908	102.0	98.0
17336	7/11/23	-	Site Won	302187	6239347	54.011	98.0	100.5
17337	8/11/23	-	Site Won	302224	6239357	53.316	100.5	88.5
17338	8/11/23	-	Site Won	302230	6239369	52.881	101.5	88.5
17339	8/11/23	-	Site Won	302235	6239385	52.339	101.5	100.5
17340	9/11/23	-	Site Won	301884	6239451	54.442	98.0	101.5
17341	9/11/23	-	Site Won	301880	6239434	54.661	100.5	89.5
17342	9/11/23	-	Site Won	301871	6239444	55.05	98.0	99.5
17343	9/11/23	-	Site Won	302183	6239351	53.671	103.0	101.0
17344	9/11/23	-	Site Won	302198	6239351	53.908	102.5	88.0
17345	9/11/23	-	Site Won	302214	6239346	53.787	100.0	98.5
17817	20/11/23	-	Site Won	302203	6239243	56.428	99.5	100.0
17818	20/11/23	-	Site Won	302189	6239341	56.671	100.5	100.0
17819	20/11/23	-	Site Won	302176	6239343	56.588	100.0	97.0
17820	21/11/23	-	Site Won	302202	6239353	56.49	101.0	88.5
17821	21/11/23	-	Site Won	302201	6239342	56.648	102.5	89.5
17822	21/11/23	-	Site Won	302203	6239334	56.913	102.0	88.5
17823	22/11/23	-	Site Won	302180	6239346	57.178	102.0	89.5
17824	22/11/23	-	Site Won	302189	6239345	57.006	103.0	91.5
17825	22/11/23	-	Site Won	302197	6239347	56.992	103.0	90.0
17826	23/11/23	-	Site Won	302189	6239353	56.329	102.0	87.5
17827	23/11/23	-	Site Won	302192	6239368	56.919	98.0	89.5
17828	23/11/23	-	Site Won	302190	6239379	57.385	103.5	91.0
17829	27/11/23	-	Site Won	302189	6239338	58.351	102.5	91.0
17830	27/11/23	-	Site Won	302188	6239357	57.587	98.0	88.5
17831	27/11/23	-	Site Won	302212	6239468	51.59	102.0	91.5
18162	27/11/23	-	Site Won	301998	6239350	54.15	98.0	104.5
18162	27/11/23	-	Site Won	301998	6239350	54.15	100.0	97.0
18162	27/11/23	-	Site Won	301998	6239350	54.15	99.0	89.5
18162	27/11/23	-	Site Won	301998	6239350	54.15	98.5	90.5
18162	27/11/23	-	Site Won	301998	6239350	54.15	98.0	90.5
18163	27/11/23	-	Site Won	301976	6239359	54.171	98.0	89.0

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Lab #	Date	Lot	Material	Chainage	Offset	Level	Density	Moisture
18168	28/11/23	-	Site Won	301986	6239359	54.501	99.5	90.5
18169	28/11/23	-	Site Won	301977	6239345	54.649	99.0	89.0
18170	28/11/23	-	Site Won	301988	6239320	54.758	100.5	85.0
18171	1/12/23	-	Site Won	301824	6239326	57.138	100.0	102.0
18172	1/12/23	-	Site Won	301817	6239317	56.984	101.0	97.0
18173	1/12/23	-	Site Won	301810	6239305	57.391	100.0	99.5
18174	1/12/23	-	Site Won	301976	6239352	54.96	102.5	84.0
18175	1/12/23	-	Site Won	301971	6239336	55.122	98.5	103.0
18176	1/12/23	-	Site Won	301965	6239315	55.26	99.0	100.0
18325	4/12/23	-	Site Won	301824	6239345	57.466	101.0	101.0
18326	4/12/23	-	Site Won	301833	6239343	57.389	102.0	96.5
18327	4/12/23	-	Site Won	301822	6239338	57.61	100.5	96.0
18328	5/12/23	-	Site Won	301980	6239321	55.935	98.0	98.0
18329	5/12/23	-	Site Won	301982	6239339	55.61	102.5	91.0
18330	5/12/23	-	Site Won	301990	6239361	55.341	101.5	101.0
18331	5/12/23	-	Site Won	301848	6239368	57.368	103.0	98.5
18332	5/12/23	-	Site Won	301839	6239340	57.288	101.0	100.5
18333	5/12/23	-	Site Won	301832	6239330	57.551	99.5	98.0
18334	6/12/23	-	Site Won	301857	6239394	55.513	100.0	96.0
18335	6/12/23	-	Site Won	301850	6239387	55.749	102.0	102.0
18336	6/12/23	-	Site Won	301846	6239380	56.007	101.0	97.5
18337	6/12/23	-	Site Won	301989	6239358	55.926	100.5	99.5
18338	6/12/23	-	Site Won	301992	6239339	55.921	100.0	91.0
18339	6/12/23	-	Site Won	301974	6239341	55.733	102.0	94.0
18488	7/12/23	-	Site Won	301850	6239377	56.422	100.5	98.0
18489	7/12/23	-	Site Won	301856	6239370	56.558	99.5	98.0
18490	7/12/23	-	Site Won	301853	6239365	56.481	98.0	95.0
18491	8/12/23	-	Site Won	301991	6239362	55.956	98.5	101.0
18492	8/12/23	-	Site Won	301993	6239336	56.222	100.5	99.0
18493	8/12/23	-	Site Won	301984	6239311	56.691	98.5	99.5
18494	8/12/23	-	Site Won	301877	6239406	56.248	99.0	96.5
18495	8/12/23	-	Site Won	301875	6239395	56.444	98.0	99.0
18496	8/12/23	-	Site Won	301871	6239390	56.507	98.0	102.0
18497	11/12/23	-	Site Won	301982	6239341	56.586	104.0	95.5
18498	11/12/23	-	Site Won	301974	6239362	56.669	100.0	101.0
18499	11/12/23	-	Site Won	301992	6239319	56.844	98.0	87.0
18500	12/12/23	-	Site Won	301842	6239320	56.8	103.5	82.5
18501	12/12/23	-	Site Won	301856	6239354	57.5	103.5	81.5
18502	12/12/23	-	Site Won	301986	6239354	56.6	102.0	83.5

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Lab #	Date	Lot	Material	Chainage	Offset	Level	Density	Moisture
18925	12/12/23	-	Site Won	301985	6239333	56.9	98.5	88.0
18926	12/12/23	-	Site Won	301973	6239316	57.2	101.0	86.5
18927	12/12/23	-	Site Won	302007	6239316	56	98.5	87.0
18928	12/12/23	-	Site Won	302007	6239315	56.32	100.5	88.0
18929	13/12/23	-	Site Won	302000	6239358	56.81	101.5	84.5
18930	13/12/23	-	Site Won	301984	6239313	57.12	100.0	82.0
18931	13/12/23	-	Site Won	301972	6239328	57.43	103.5	87.5
18932	13/12/23	-	Site Won	300206	6239322	56.54	101.5	95.5
18933	13/12/23	-	Site Won	301992	6239310	57.14	104.0	97.0
18934	13/12/23	-	Site Won	301974	6239302	57.68	102.5	87.0
18935	13/12/23	-	Site Won	302001	6239316	56.81	104.0	95.5
18936	14/12/23	-	Site Won	302001	6239323	56.91	102.5	83.0
18937	14/12/23	-	Site Won	302000	6239329	57.1	101.0	84.0
18938	15/12/23	-	Site Won	302002	6239322	57.31	101.5	88.5
18939	15/12/23	-	Site Won	301967	6239308	57.7	102.5	97.0
18940	15/12/23	-	Site Won	301967	6239308	57.721	102.5	97.5
18941	15/12/23	-	Site Won	302004	6239315	57.605	102.0	100.0
18942	18/12/23	-	Site Won	301998	6239359	56.701	1000.5	102.5
18943	18/12/23	-	Site Won	301987	6239335	57.002	100.0	97.0
18944	18/12/23	-	Site Won	301979	6239313	56.679	104.0	98.0
18945	19/12/23	-	Site Won	301839	6239405	56.305	98.5	103.5
18946	19/12/23	-	Site Won	301857	6239389	56.316	103.0	98.5
18947	19/12/23	-	Site Won	301836	6239360	57.504	98.5	86.0
18948	19/12/23	-	Site Won	301884	6239409	55.528	100.5	85.5
18949	10/01/24	-	Site Won	301847	6239357	57.382	100.0	101.5
18950	10/01/24	-	Site Won	301853	6239404	56.349	98.5	96.5
18951	10/01/24	-	Site Won	301883	6239420	55.65	100.5	97.0
18952	10/01/24	-	Site Won	301832	6239468	57.251	98.5	97.0
18953	10/01/24	-	Site Won	301843	6239399	57.007	99.0	94.5
18954	10/01/24	-	Site Won	301883	6239422	55.871	98.5	99.0
19918	19/01/24	-	Site Won	301993	6239337	58.65	103.0	101.0
19919	19/01/24	-	Site Won	301989	6239312	58.95	104.5	99.0
19920	22/01/24	-	Site Won	301984	6239335	59.3	101.0	85.5
19921	22/01/24	-	Site Won	301993	6239318	59.4	98.0	98.0
19922	22/01/24	-	Site Won	301989	6239332	59.2	98.0	103.0
19923	23/01/24	-	Site Won	301985	6239680	57.66	102.5	87.0
19924	23/01/24	-	Site Won	301985	6239666	57.23	103.0	96.5
19925	23/01/24	-	Site Won	301989	6239314	57.58	104.0	88.5
19926	24/01/24	-	Site Won	301988	6239312	60.07	101.0	87.0

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Lab #	Date	Lot	Material	Chainage	Offset	Level	Density	Moisture
19927	24/01/24	-	Site Won	302001	6239325	55.12	103.5	98.0
19928	24/01/24	-	Site Won	302048	6239605	53.92	103.0	86.5
19929	24/01/24	-	Site Won	301978	6239314	56.08	99.0	87.0
19930	29/01/24	-	Site Won	302021	6239627	55.7	100.5	88.0
19931	30/01/24	-	Site Won	301965	6239300	61.2	99.0	99.0
19932	30/01/24	-	Site Won	302027	6239551	52.7	99.5	100.5
19933	30/01/24	-	Site Won	301989	6239521	53.2	100.0	103.5
19934	31/01/24	-	Site Won	302020	6239539	53	100.5	100.5
19935	31/01/24	-	Site Won	302005	6239539	53	100.0	101.5
19936	1/02/24	-	Site Won	302065	6239627	53.9	98.0	102.0
19937	1/02/24	-	Site Won	302071	6239601	53.2	98.0	101.5
19938	1/02/24	-	Site Won	302054	6239594	53.03	98.5	102.5
19939	1/02/24	-	Site Won	302071	6239589	53.74	100.5	102.5
19940	2/02/24	-	Site Won	302084	6239630	53.54	100.0	104.0
19941	2/02/24	-	Site Won	302062	6239626	54.51	98.0	101.0
19942	2/02/24	-	Site Won	302061	6239644	54.21	98.5	101.0
19943	2/02/24	-	Site Won	302069	6239631	53.73	98.0	101.5
19944	5/02/24	-	Site Won	302113	6239613	53.23	103.0	99.0
19945	5/02/24	-	Site Won	302090	6239616	52.74	103.5	101.5
19946	8/02/24	-	Site Won	301736	6239630	62.07	99.5	97.0
19947	8/02/24	-	Site Won	301756	6239600	61.35	102.0	99.5
20264	8/02/24	-	Site Won	301755	6239616	60.05	99.5	101.5
20265	8/02/24	-	Site Won	301742	6239637	62.44	103.0	101.5
20266	8/02/24	-	Site Won	301761	6239639	62.67	103.5	88.0
20267	9/02/24	-	Site Won	301850	6239517	52.21	100.5	100.5
20268	9/02/24	-	Site Won	301866	6239521	53.1	103.5	91.0
20269	13/02/24	-	Site Won	301942	6239505	54.69	102.5	88.0
20270	13/02/24	-	Site Won	301929	6239519	55.41	103.0	88.0
20271	13/02/24	-	Site Won	302039	6239646	55.79	101.0	89.0
20272	13/02/24	-	Site Won	302005	6239684	57.23	100.5	89.5
20273	13/02/24	-	Site Won	301888	6239534	57.45	101.0	101.0
20274	15/02/24	-	Site Won	302188	6239620	51.56	101.0	90.0
20275	15/02/24	-	Site Won	302195	6239620	51.55	98.0	91.0
20276	15/02/24	-	Site Won	302203	6239641	51.54	99.5	91.0
20277	15/02/24	-	Site Won	302210	6239600	51.43	99.5	89.0
20278	15/02/24	-	Site Won	302211	6239630	50.03	103.5	89.5
20674	16/02/24	-	Site Won	302162	6239593	51	102.5	88.5
20675	16/02/24	-	Site Won	302181	6239606	51.32	100.5	89.0
20676	16/02/24	-	Site Won	302206	6239600	50.55	103.0	89.5

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Lab #	Date	Lot	Material	Chainage	Offset	Level	Density	Moisture
20677	16/02/24	-	Site Won	302127	6239686	50.38	104.0	87.5
20678	23/02/24	-	Site Won	302173	6239584	51.2	104.0	98.5
20679	23/02/24	-	Site Won	301976	6239507	52.45	103.0	101.0
20680	26/02/24	-	Site Won	302018	6239538	52.89	102.5	90.0
20681	26/02/24	-	Site Won	301988	6239514	52.976	101.0	88.0

6.0 Limitations

Unless otherwise stated in this report, this report does not address or include: Backfill behind retaining structures, Backfilling of service trenches, Any topsoil placed on the site, Slope stability, or Site drainage.

7.0 Conclusion

The earthworks have been conducted under section 8.2 - **Level 1 Inspection and Testing**, of AS 3798 – *Guidelines on earthworks for commercial and residential developments (2007)*.

Based on the inspections and field/laboratory testing, it is the opinion of ASCT that the earthworks are compliant with the project specifications.

Should you require any further assistance please do not hesitate to call this office.

Yours Faithfully,



Phil Baltoski (Laboratory Manager)

Australian Soil & Concrete Testing – Illawarra

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Appendix A – Extent of Earthworks



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Appendix B – Test Reports

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**11**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	27/10/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231017
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**16491**	**16492**	**16493**	**16494**	**16495**
Field Test Number:		1	2	3	4	5
Date - Field Tested:		17/10/2023	17/10/2023	18/10/2023	18/10/2023	18/10/2023
Time - Field Tested:		1529	1533	1445	1450	1455
Material Source / Type:		Site Won - Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302114.0	302131.0	302126.0	302143.0	302105.0
Position/Offset/Northing:	(m)	6239403.0	6239388.0	6239435.0	6239446.0	6239452.0
Level/Layer/R.L.		51.284	50.945	51.721	51.857	51.409
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.19	2.17	2.14	2.04	2.07
Field Dry Density:	(t/m^3)	1.85	1.87	1.81	1.74	1.75
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	2% on 19.0mm	5% on 19.0mm	1% on 19.0mm	4% on 19.0mm
Material Description:		Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	18.5	15.5	18.5	17.5	18.0
Adjusted Lab OMC:	(%)	18.5	15.9	17.9	18.1	18.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.10	2.09	2.10	2.07	2.08
Adjusted Lab Max CWD:	(t/m^3)	2.11	2.09	2.11	2.07	2.09
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**At OMC**	**0.5% Wetter than OMC**	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**
Moisture Ratio	(%)	**101.5**	**98.5**	**102.5**	**97.0**	**98.0**
Density Ratio	(%)	**104.0**	**103.5**	**101.5**	**98.5**	**99.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 18/10/2023 to 24/10/2023

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

Approved By: P.Baltoski
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**11**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	27/10/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231017
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**16496**	**16497**	**16498**	**16499**	**16500**
Field Test Number:		6	7	8	9	10
Date - Field Tested:		19/10/2023	19/10/2023	19/10/2023	20/10/2023	20/10/2023
Time - Field Tested:		1445	1450	1455	1505	1510
Material Source / Type:		Site Won - Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302139.0	302116.0	302066.0	302117.0	302094.0
Position/Offset/Northing:	(m)	6239439.0	6239425.0	6239438.0	6239401.0	6239415.0
Level/Layer/R.L.		51.761	52.506	52.685	53.515	53.382
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.15	2.11	2.15	2.13	2.17
Field Dry Density:	(t/m^3)	1.87	1.81	1.85	1.80	1.90
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	4% on 19.0mm	2% on 19.0mm	4% on 19.0mm	8% on 19.0mm
Material Description:		Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	15.0	16.0	16.5	18.0	14.5
Adjusted Lab OMC:	(%)	16.3	15.5	18.0	17.4	16.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.11	2.13	2.07	2.10	2.09
Adjusted Lab Max CWD:	(t/m^3)	2.13	2.14	2.08	2.11	2.11
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**1.0% Dryer than OMC**	**0.5% Wetter than OMC**	**1.5% Dryer than OMC**	**0.5% Wetter than OMC**	**2.0% Dryer than OMC**
Moisture Ratio	(%)	**91.5**	**103.5**	**90.5**	**104.0**	**85.5**
Density Ratio	(%)	**101.0**	**98.5**	**103.5**	**100.5**	**103.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 18/10/2023 to 24/10/2023

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**11**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	27/10/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231017
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**16501**	**16502**	**16503**	**16504**	**16505**
Field Test Number:		11	12	13	14	15
Date - Field Tested:		20/10/2023	23/10/2023	23/10/2023	23/10/2023	23/10/2023
Time - Field Tested:		1515	1315	1320	1325	1330
Material Source / Type:		Site Won - Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302078.0	302160.0	302166.0	302170.0	302163.0
Position/Offset/Northing:	(m)	6239432.0	6239435.0	6239435.0	6239453.0	6239470.0
Level/Layer/R.L.		53.172	52.641	52.964	53.117	52.514
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.13	2.13	2.07	2.17	2.09
Field Dry Density:	(t/m^3)	1.82	1.82	1.79	1.89	1.82
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	5% on 19.0mm	3% on 19.0mm	8% on 19.0mm	6% on 19.0mm
Material Description:		Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	16.5	17.0	15.5	15.0	15.0
Adjusted Lab OMC:	(%)	18.6	18.8	15.3	17.1	16.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.05	2.07	2.11	2.08	2.08
Adjusted Lab Max CWD:	(t/m^3)	2.06	2.09	2.12	2.10	2.10
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**	**At OMC**	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**
Moisture Ratio	(%)	**89.5**	**90.5**	**101.5**	**88.0**	**90.5**
Density Ratio	(%)	**103.5**	**102.0**	**98.0**	**103.5**	**100.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 18/10/2023 to 24/10/2023

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**11**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	27/10/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231017
Lot Number:	-	ITP/PCP:	-



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**12**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	31/10/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231024
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**16866**	**16867**	**16868**	**16869**	**16870**
Field Test Number:		16	17	18	19	20
Date - Field Tested:		24/10/2023	24/10/2023	24/10/2023	25/10/2023	25/10/2023
Time - Field Tested:		1240	1245	1250	1515	1520
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302165.0	302123.0	302061.0	302083.0	302132.0
Position/Offset/Northing:	(m)	6239463.0	6239442.0	6239438.0	6239448.0	6239466.0
Level/Layer/R.L.		51.751	52.609	52.888	52.227	52.753
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.20	2.17	2.03	2.13	2.15
Field Dry Density:	(t/m^3)	1.94	1.92	1.80	1.88	1.90
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	3% on 19.0mm	2% on 19.0mm	3% on 19.0mm	2% on 19.0mm
Material Description:		Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	13.0	13.0	13.0	13.0	13.0
Adjusted Lab OMC:	(%)	13.3	13.0	13.0	13.2	13.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.10	2.13	2.07	2.09	2.15
Adjusted Lab Max CWD:	(t/m^3)	2.11	2.13	2.07	2.09	2.15
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**At OMC**	**At OMC**	**At OMC**	**At OMC**
Moisture Ratio	(%)	**98.5**	**100.0**	**99.0**	**99.0**	**100.0**
Density Ratio	(%)	**104.0**	**102.0**	**98.0**	**101.5**	**100.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 24/10/2023 to 31/10/2023

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

Approved By: P.Baltoski
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**12**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	31/10/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231024
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**16871**	**16872**	**16873**	**16874**	**16875**
Field Test Number:		21	22	23	24	25
Date - Field Tested:		25/10/2023	26/10/2023	26/10/2023	26/10/2023	27/10/2023
Time - Field Tested:		1525	1505	1510	1515	1445
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302151.0	302159.0	302067.0	302139.0	302148.0
Position/Offset/Northing:	(m)	6239439.0	6239460.0	6239436.0	6239403.0	6239438.0
Level/Layer/R.L.		52.58	52.372	53.318	53.226	52.716
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.17	2.15	2.13	2.11	2.15
Field Dry Density:	(t/m^3)	1.91	1.89	1.88	1.86	1.89
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	6% on 19.0mm	8% on 19.0mm	7% on 19.0mm	6% on 19.0mm
Material Description:		Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	13.0	14.0	14.0	13.5	14.0
Adjusted Lab OMC:	(%)	13.1	14.3	14.2	14.2	14.4
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.13	2.09	2.11	2.07	2.09
Adjusted Lab Max CWD:	(t/m^3)	2.14	2.11	2.13	2.09	2.11
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**
Moisture Ratio	(%)	**101.0**	**97.0**	**97.5**	**97.0**	**97.0**
Density Ratio	(%)	**101.0**	**102.0**	**100.0**	**101.0**	**102.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 24/10/2023 to 31/10/2023

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**12**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	31/10/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231024
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**16876**	**16877**	**16878**	**16879**	**16880**
Field Test Number:		26	27	28	29	30
Date - Field Tested:		27/10/2023	27/10/2023	30/10/2023	30/10/2023	30/10/2023
Time - Field Tested:		1450	1455	1500	1505	1510
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302135.0	302090.0	302101.0	302069.0	302134.0
Position/Offset/Northing:	(m)	6239380.0	6239438.0	6239451.0	6239421.0	6239392.0
Level/Layer/R.L.		53.627	53.683	52.958	53.711	53.788
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.13	2.19	2.06	2.12	2.15
Field Dry Density:	(t/m^3)	1.87	1.93	1.83	1.88	1.91
Retained Oversize (Wet basis):	(%)	7% on 19.0mm	12% on 19.0mm	9% on 19.0mm	9% on 19.0mm	12% on 19.0mm
Material Description:		Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	14.0	13.5	12.5	12.5	12.5
Adjusted Lab OMC:	(%)	14.0	14.0	14.1	14.1	14.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.11	2.11	2.06	2.09	2.11
Adjusted Lab Max CWD:	(t/m^3)	2.13	2.15	2.09	2.12	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**0.5% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**
Moisture Ratio	(%)	**98.5**	**96.0**	**87.0**	**87.0**	**87.5**
Density Ratio	(%)	**100.0**	**102.0**	**98.5**	**100.0**	**100.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 24/10/2023 to 31/10/2023

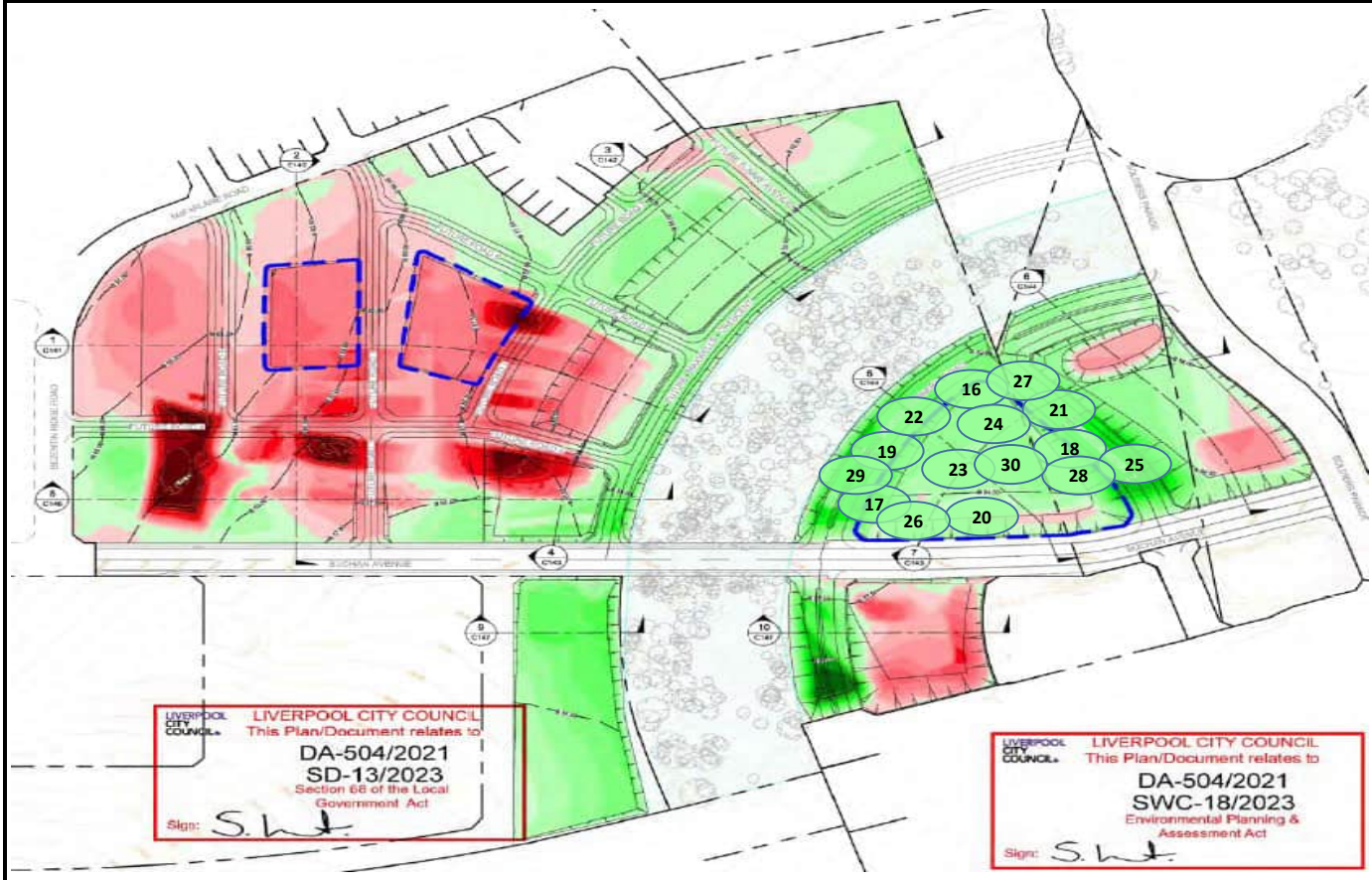
Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**12**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	31/10/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231024
Lot Number:	-	ITP/PCP:	-



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**14**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	8/11/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231031
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**17074**	**17075**	**17076**	**17077**	**17078**
Field Test Number:		31	32	33	34	35
Date - Field Tested:		31/10/2023	31/10/2023	1/11/2023	1/11/2023	1/11/2023
Time - Field Tested:		1505	1510	1505	1510	1515
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302088.0	302123.0	302070.0	302122.0	302175.0
Position/Offset/Northing:	(m)	6239452.0	6239457.0	6239447.0	6239456.0	6239375.0
Level/Layer/R.L.		53.428	52.967	54.019	53.367	53.591
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.14	2.09	2.15	2.17	2.13
Field Dry Density:	(t/m^3)	1.84	1.76	1.89	1.90	1.75
Retained Oversize (Wet basis):	(%)	15% on 19.0mm	15% on 19.0mm	4% on 19.0mm	14% on 19.0mm	3% on 19.0mm
Material Description:		Gravel Clay	Gravel Clay	Gravel Clay	Gravel Clay	Gravel Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	16.5	19.0	14.0	14.0	21.5
Adjusted Lab OMC:	(%)	18.2	20.8	14.6	16.4	23.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.10	2.08	2.12	2.13	2.11
Adjusted Lab Max CWD:	(t/m^3)	2.15	2.13	2.13	2.16	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**0.5% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**
Moisture Ratio	(%)	**90.0**	**90.5**	**95.5**	**86.5**	**90.0**
Density Ratio	(%)	**99.5**	**98.0**	**101.0**	**100.5**	**100.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 31/10/2023 to 08/11/2023

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

Approved By: P.Baltoski
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**14**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	8/11/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231031
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**17079**	**17080**	**17081**	**17082**	**17083**
Field Test Number:		36	37	38	39	40
Date - Field Tested:		2/11/2023	2/11/2023	2/11/2023	3/11/2023	3/11/2023
Time - Field Tested:		1445	1450	1455	1500	1505
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302056.0	302111.0	302168.0	302055.0	302089.0
Position/Offset/Northing:	(m)	6239416.0	6239452.0	6239468.0	6239411.0	6239445.0
Level/Layer/R.L.		54.714	53.871	52.568	55.103	54.567
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.11	2.05	2.13	2.06	2.14
Field Dry Density:	(t/m^3)	1.82	1.71	1.82	1.76	1.82
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	3% on 19.0mm	2% on 19.0mm	3% on 19.0mm	1% on 19.0mm
Material Description:		Gravel Clay	Gravel Clay	Gravel Clay	Gravel Clay	Gravel Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	16.0	19.5	17.0	17.0	18.0
Adjusted Lab OMC:	(%)	18.0	21.7	19.1	18.8	18.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.06	2.04	2.08	2.08	2.08
Adjusted Lab Max CWD:	(t/m^3)	2.07	2.05	2.08	2.09	2.09
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**	**0.5% Dryer than OMC**
Moisture Ratio	(%)	**89.0**	**90.0**	**88.5**	**91.0**	**98.0**
Density Ratio	(%)	**102.0**	**100.0**	**102.0**	**98.5**	**102.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 31/10/2023 to 08/11/2023

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**14**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	8/11/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231031
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**17084**	**17085**	**17086**	**17087**	**17088**
Field Test Number:		41	42	43	44	45
Date - Field Tested:		3/11/2023	3/11/2023	6/11/2023	6/11/2023	6/11/2023
Time - Field Tested:		1510	1515	1510	1515	1520
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302164.0	302228.0	302190.0	302171.0	302186.0
Position/Offset/Northing:	(m)	6239474.0	6239474.0	6239430.0	6239356.0	6239389.0
Level/Layer/R.L.		52.486	51.449	52.513	53.944	52.286
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.10	2.18	2.17	2.15	2.12
Field Dry Density:	(t/m^3)	1.80	1.88	1.87	1.87	1.83
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	3% on 19.0mm	3% on 19.0mm	3% on 19.0mm	2% on 19.0mm
Material Description:		Gravel Clay	Gravel Clay	Gravel Clay	Gravel Clay	Gravel Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	16.5	16.0	16.0	14.5	16.0
Adjusted Lab OMC:	(%)	18.8	17.8	17.5	16.6	17.4
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.07	2.15	2.15	2.15	2.13
Adjusted Lab Max CWD:	(t/m^3)	2.07	2.16	2.16	2.16	2.13
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**
Moisture Ratio	(%)	**87.5**	**88.5**	**90.0**	**88.5**	**91.0**
Density Ratio	(%)	**101.0**	**101.0**	**100.5**	**99.5**	**99.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**14**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	8/11/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231031
Lot Number:	-	ITP/PCP:	-



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**15**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	10/11/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231107
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**17331**	**17332**	**17333**	**17334**	**17335**
Field Test Number:		46	47	48	49	50
Date - Field Tested:		7/11/2023	7/11/2023	7/11/2023	7/11/2023	7/11/2023
Time - Field Tested:		0915	0920	0925	1300	1305
Material Source / Type:		Site Won - CI,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301874.0	301880.0	301883.0	302224.0	302206.0
Position/Offset/Northing:	(m)	6239454.0	6239444.0	6239437.0	6239414.0	6239379.0
Level/Layer/R.L.		53.887	54.017	54.38	52.462	52.908
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.08	2.04	2.03	2.07	2.11
Field Dry Density:	(t/m^3)	1.76	1.75	1.72	1.75	1.80
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	2% on 19.0mm	4% on 19.0mm	2% on 19.0mm	2% on 19.0mm
Material Description:		Sandy Clay	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	18.0	17.0	17.5	18.0	17.0
Adjusted Lab OMC:	(%)	18.4	17.0	18.1	18.2	17.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.08	2.07	2.04	2.09	2.06
Adjusted Lab Max CWD:	(t/m^3)	2.08	2.08	2.05	2.09	2.07
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**0.5% Dryer than OMC**	**At OMC**	**0.5% Dryer than OMC**	**At OMC**	**0.5% Dryer than OMC**
Moisture Ratio	(%)	**98.0**	**99.0**	**97.5**	**99.5**	**98.0**
Density Ratio	(%)	**100.0**	**98.0**	**98.5**	**99.0**	**102.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 07/11/2023 to 10/11/2023

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Accreditation number: 20656

Approved By: P.Baltoski
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**15**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	10/11/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231107
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**17336**	**17337**	**17338**	**17339**	**17340**
Field Test Number:		51	52	53	54	55
Date - Field Tested:		7/11/2023	8/11/2023	8/11/2023	8/11/2023	9/11/2023
Time - Field Tested:		1310	1310	1315	1320	0925
Material Source / Type:		Site Won - CI,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302187.0	302224.0	302230.0	302235.0	301884.0
Position/Offset/Northing:	(m)	6239347.0	6239357.0	6239369.0	6239385.0	6239451.0
Level/Layer/R.L.		54.011	53.316	52.881	52.339	54.442
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.04	2.08	2.10	2.13	2.04
Field Dry Density:	(t/m^3)	1.71	1.80	1.81	1.82	1.73
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	1% on 19.0mm	4% on 19.0mm	2% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	19.0	15.5	15.5	17.0	17.5
Adjusted Lab OMC:	(%)	18.9	17.3	17.6	17.0	17.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.07	2.07	2.06	2.10	2.08
Adjusted Lab Max CWD:	(t/m^3)	2.08	2.07	2.07	2.10	2.08
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**At OMC**	**0.5% Wetter than OMC**
Moisture Ratio	(%)	**100.5**	**88.5**	**88.5**	**100.5**	**101.5**
Density Ratio	(%)	**98.0**	**100.5**	**101.5**	**101.5**	**98.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**15**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	10/11/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231107
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**17341**	**17342**	**17343**	**17344**	**17345**
Field Test Number:		56	57	58	59	60
Date - Field Tested:		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Time - Field Tested:		0930	0935	1305	1310	1315
Material Source / Type:		Site Won - CI,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301880.0	301871.0	302183.0	302198.0	302214.0
Position/Offset/Northing:	(m)	6239434.0	6239444.0	6239351.0	6239351.0	6239346.0
Level/Layer/R.L.		54.661	55.05	53.671	53.908	53.787
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.07	2.02	2.15	2.14	2.10
Field Dry Density:	(t/m^3)	1.76	1.70	1.83	1.84	1.75
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	4% on 19.0mm	7% on 19.0mm	4% on 19.0mm	3% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	17.0	18.5	17.5	16.0	20.0
Adjusted Lab OMC:	(%)	19.3	18.8	17.5	18.1	20.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.05	2.05	2.07	2.08	2.09
Adjusted Lab Max CWD:	(t/m^3)	2.06	2.06	2.09	2.09	2.10
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**2.0% Dryer than OMC**	**At OMC**	**At OMC**	**2.0% Dryer than OMC**	**At OMC**
Moisture Ratio	(%)	**89.5**	**99.5**	**101.0**	**88.0**	**98.5**
Density Ratio	(%)	**100.5**	**98.0**	**103.0**	**102.5**	**100.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 07/11/2023 to 10/11/2023

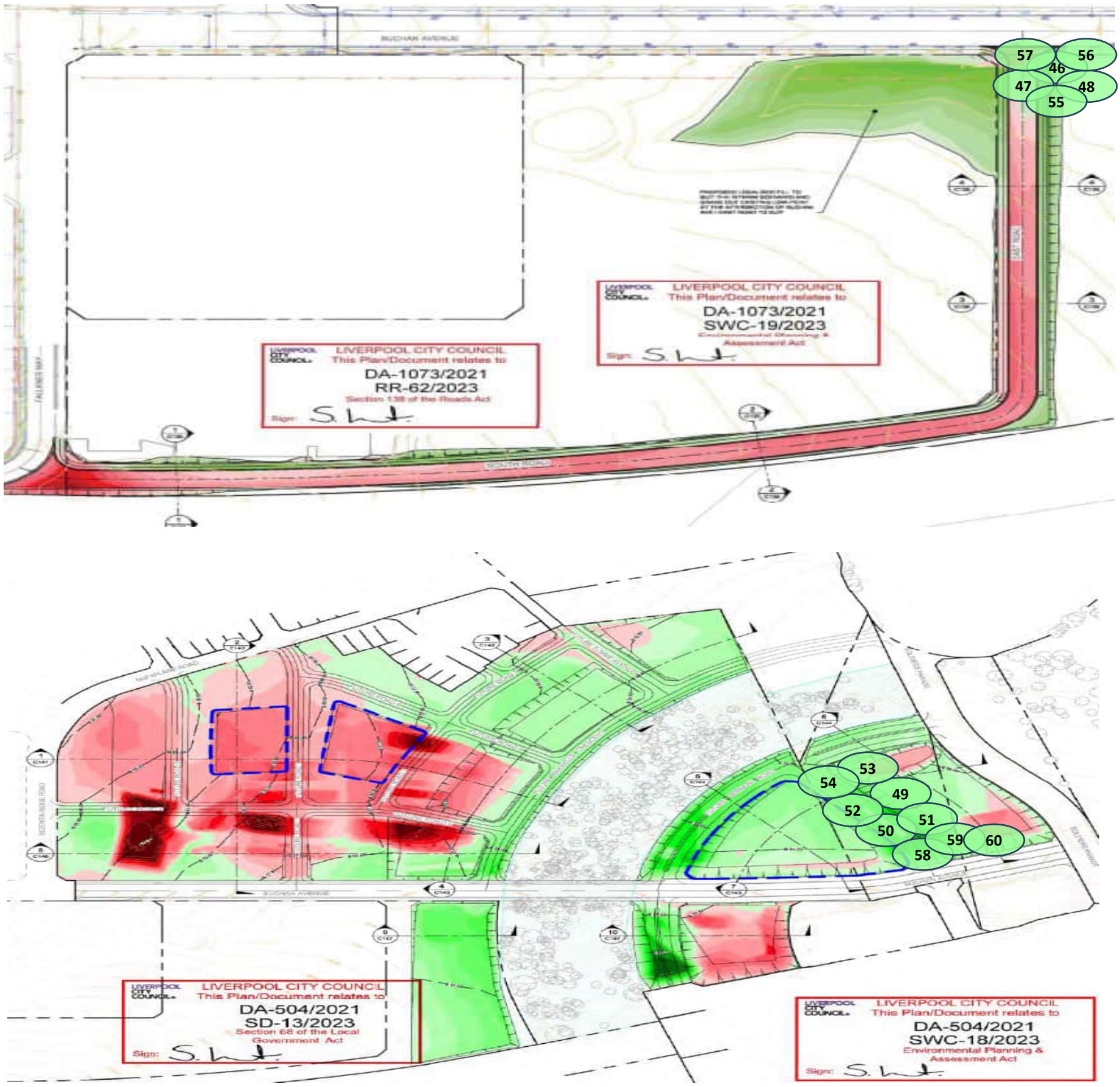
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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**15**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	10/11/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231107
Lot Number:	-	ITP/PCP:	-



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Accreditation number: 20656

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**17**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	4/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231120
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**17817**	**17818**	**17819**	**17820**	**17821**
Field Test Number:		76	77	78	79	80
Date - Field Tested:		20/11/2023	20/11/2023	20/11/2023	21/11/2023	21/11/2023
Time - Field Tested:		1310	1315	1320	1300	1305
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302203.0	302189.0	302176.0	302202.0	302201.0
Position/Offset/Northing:	(m)	6239243.0	6239341.0	6239343.0	6239353.0	6239342.0
Level/Layer/R.L.		56.428	56.671	56.588	56.49	56.648
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.07	2.11	2.08	2.07	2.13
Field Dry Density:	(t/m^3)	1.77	1.78	1.77	1.79	1.82
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	1% on 19.0mm	1% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		Gravel Clay	Gravel Clay	Gravel Clay	Gravel Clay	Gravel Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	17.0	19.0	18.0	15.5	17.5
Adjusted Lab OMC:	(%)	16.9	19.0	18.3	17.4	19.4
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.08	2.10	2.08	2.05	2.08
Adjusted Lab Max CWD:	(t/m^3)	2.08	2.11	2.08	2.05	2.08
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**At OMC**	**0.5% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**
Moisture Ratio	(%)	**100.0**	**100.0**	**97.0**	**88.5**	**89.5**
Density Ratio	(%)	**99.5**	**100.5**	**100.0**	**101.0**	**102.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 20/11/2023 to 24/11/2023

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

Approved By: P.Baltoski
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**17**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	4/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231120
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**17822**	**17823**	**17824**	**17825**	**17826**
Field Test Number:		81	82	83	84	85
Date - Field Tested:		21/11/2023	22/11/2023	22/11/2023	22/11/2023	23/11/2023
Time - Field Tested:		1310	1310	1315	1320	1305
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302203.0	302180.0	302189.0	302197.0	302189.0
Position/Offset/Northing:	(m)	6239334.0	6239346.0	6239345.0	6239347.0	6239353.0
Level/Layer/R.L.		56.913	57.178	57.006	56.992	56.329
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.11	2.08	2.16	2.14	2.07
Field Dry Density:	(t/m^3)	1.78	1.75	1.81	1.82	1.80
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	2% on 19.0mm	0% on 19.0mm
Material Description:		Gravel Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	18.0	19.0	20.0	17.5	15.5
Adjusted Lab OMC:	(%)	20.6	21.3	21.6	19.2	17.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.07	2.05	2.10	2.07	2.03
Adjusted Lab Max CWD:	(t/m^3)	2.07	2.05	2.10	2.07	2.03
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**
Moisture Ratio	(%)	**88.5**	**89.5**	**91.5**	**90.0**	**87.5**
Density Ratio	(%)	**102.0**	**102.0**	**103.0**	**103.0**	**102.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**17**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	4/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231120
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**17827**	**17828**	**17829**	**17830**	**17831**
Field Test Number:		86	87	88	89	90
Date - Field Tested:		23/11/2023	23/11/2023	27/11/2023	27/11/2023	27/11/2023
Time - Field Tested:		1310	1315	1300	1305	1310
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302192.0	302190.0	302189.0	302188.0	302212.0
Position/Offset/Northing:	(m)	6239368.0	6239379.0	6239338.0	6239357.0	6239468.0
Level/Layer/R.L.		56.919	57.385	58.351	57.587	51.59
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.04	2.12	2.12	2.06	2.18
Field Dry Density:	(t/m^3)	1.72	1.77	1.82	1.76	1.83
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	3% on 19.0mm	4% on 19.0mm	5% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Gravel Clay	Gravel Clay	Gravel Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	19.0	19.5	17.0	17.0	19.0
Adjusted Lab OMC:	(%)	21.1	21.6	18.5	19.4	20.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.08	2.05	2.06	2.09	2.12
Adjusted Lab Max CWD:	(t/m^3)	2.08	2.05	2.08	2.10	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**
Moisture Ratio	(%)	**89.5**	**91.0**	**91.0**	**88.5**	**91.5**
Density Ratio	(%)	**98.0**	**103.5**	**102.5**	**98.0**	**102.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**17**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	4/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231120
Lot Number:	-	ITP/PCP:	-



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**18**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	4/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231127
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18162**	**18163**	**18164**	**18165**	**18166**
Field Test Number:		91	92	93	94	95
Date - Field Tested:		27/11/2023	27/11/2023	27/11/2023	27/11/2023	27/11/2023
Time - Field Tested:		1030	1035	1040	1415	1420
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301998.0	301976.0	301969.0	301967.0	301978.0
Position/Offset/Northing:	(m)	6239350.0	6239359.0	6239343.0	6239333.0	6239355.0
Level/Layer/R.L.		54.15	54.171	54.144	54.544	54.321
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.08	2.15	2.09	2.11	2.05
Field Dry Density:	(t/m^3)	1.77	1.81	1.80	1.78	1.74
Retained Oversize (Wet basis):	(%)	7% on 19.0mm	6% on 19.0mm	6% on 19.0mm	6% on 19.0mm	5% on 19.0mm
Material Description:		Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	17.5	19.5	16.0	18.5	17.5
Adjusted Lab OMC:	(%)	16.6	19.9	17.8	20.6	19.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.09	2.14	2.09	2.13	2.07
Adjusted Lab Max CWD:	(t/m^3)	2.12	2.16	2.12	2.15	2.09
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**0.5% Wetter than OMC**	**0.5% Dryer than OMC**	**1.5% Dryer than OMC**	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**
Moisture Ratio	(%)	**104.5**	**97.0**	**89.5**	**90.5**	**90.5**
Density Ratio	(%)	**98.0**	**100.0**	**99.0**	**98.5**	**98.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

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Accreditation number: 20656

Approved By: P.Baltoski
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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**18**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	4/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231127
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18167**	**18168**	**18169**	**18170**	**18171**
Field Test Number:		96	97	98	99	100
Date - Field Tested:		27/11/2023	28/11/2023	28/11/2023	28/11/2023	1/12/2023
Time - Field Tested:		1425	0835	0840	0845	1310
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301994.0	301986.0	301977.0	301988.0	301824.0
Position/Offset/Northing:	(m)	6239367.0	6239359.0	6239345.0	6239320.0	6239326.0
Level/Layer/R.L.		54.52	54.501	54.649	54.758	57.138
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.11	2.08	2.05	2.08	2.08
Field Dry Density:	(t/m^3)	1.76	1.78	1.81	1.83	1.84
Retained Oversize (Wet basis):	(%)	15% on 19.0mm	2% on 19.0mm	5% on 19.0mm	6% on 19.0mm	5% on 19.0mm
Material Description:		Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	20.0	17.0	13.5	13.5	13.5
Adjusted Lab OMC:	(%)	22.7	18.7	15.0	15.6	13.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.10	2.08	2.05	2.04	2.06
Adjusted Lab Max CWD:	(t/m^3)	2.15	2.09	2.07	2.07	2.08
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**2.0% Dryer than OMC**	**At OMC**
Moisture Ratio	(%)	**89.0**	**90.5**	**89.0**	**85.0**	**102.0**
Density Ratio	(%)	**98.0**	**99.5**	**99.0**	**100.5**	**100.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**18**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	4/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231127
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18172**	**18173**	**18174**	**18175**	**18176**
Field Test Number:		101	102	103	104	105
Date - Field Tested:		1/12/2023	1/12/2023	1/12/2023	1/12/2023	1/12/2023
Time - Field Tested:		1315	1320	1430	1435	1440
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301817.0	301810.0	301976.0	301971.0	301965.0
Position/Offset/Northing:	(m)	6239317.0	6239305.0	6239352.0	6239336.0	6239315.0
Level/Layer/R.L.		56.984	57.391	54.96	55.122	55.26
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.10	2.05	2.16	2.08	2.10
Field Dry Density:	(t/m^3)	1.86	1.81	1.94	1.83	1.85
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	3% on 19.0mm	5% on 19.0mm	8% on 19.0mm	9% on 19.0mm
Material Description:		Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	12.5	13.0	11.0	14.0	13.0
Adjusted Lab OMC:	(%)	13.0	13.1	13.3	13.4	13.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.06	2.04	2.09	2.08	2.08
Adjusted Lab Max CWD:	(t/m^3)	2.07	2.05	2.10	2.11	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**0.5% Dryer than OMC**	**At OMC**	**2.0% Dryer than OMC**	**0.5% Wetter than OMC**	**At OMC**
Moisture Ratio	(%)	**97.0**	**99.5**	**84.0**	**103.0**	**100.0**
Density Ratio	(%)	**101.0**	**100.0**	**102.5**	**98.5**	**99.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 27/11/2023 to 04/12/2023

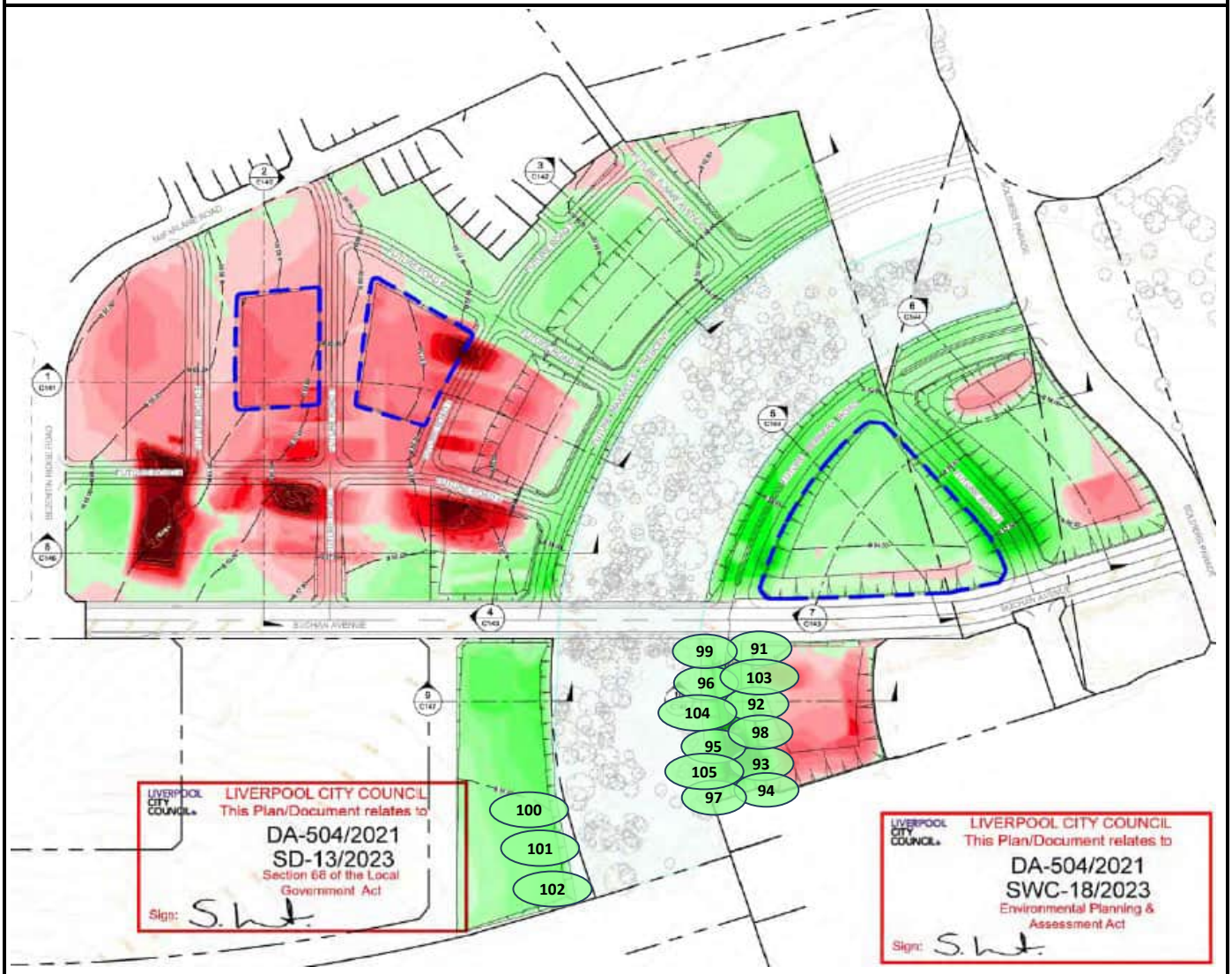
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Accreditation number: 20656

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**18**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	4/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231127
Lot Number:	-	ITP/PCP:	-



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**19**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	8/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231204
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18325**	**18326**	**18327**	**18328**	**18329**
Field Test Number:		106	107	108	109	110
Date - Field Tested:		4/12/2023	4/12/2023	4/12/2023	5/12/2023	5/12/2023
Time - Field Tested:		1315	1320	1325	0910	0915
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301824.0	301833.0	301822.0	301980.0	301982.0
Position/Offset/Northing:	(m)	6239345.0	6239343.0	6239338.0	6239321.0	6239339.0
Level/Layer/R.L.		57.466	57.389	57.61	55.935	55.61
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.15	2.12	2.09	2.08	2.14
Field Dry Density:	(t/m^3)	1.86	1.82	1.78	1.81	1.85
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	7% on 19.0mm	5% on 19.0mm	5% on 19.0mm	5% on 19.0mm
Material Description:		Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	16.0	16.5	17.0	15.0	15.5
Adjusted Lab OMC:	(%)	15.7	16.9	17.8	15.2	17.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.12	2.06	2.06	2.10	2.07
Adjusted Lab Max CWD:	(t/m^3)	2.12	2.08	2.08	2.12	2.08
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**	**1.5% Dryer than OMC**
Moisture Ratio	(%)	**101.0**	**96.5**	**96.0**	**98.0**	**91.0**
Density Ratio	(%)	**101.0**	**102.0**	**100.5**	**98.0**	**102.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**100.5**	15	100.97	1.32	0.330
Maximum (%)		**-**	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		**-**	-	-	-	-
Maximum (%)		**-**	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 04/12/2023 to 07/12/2023

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

Approved By: P.Baltoski
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**19**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	8/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231204
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18330**	**18331**	**18332**	**18333**	**18334**
Field Test Number:		111	112	113	114	115
Date - Field Tested:		5/12/2023	5/12/2023	5/12/2023	5/12/2023	6/12/2023
Time - Field Tested:		0920	1315	1320	1325	1310
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301990.0	301848.0	301839.0	301832.0	301857.0
Position/Offset/Northing:	(m)	6239361.0	6239368.0	6239340.0	6239330.0	6239394.0
Level/Layer/R.L.		55.341	57.368	57.288	57.551	55.513
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.17	2.14	2.05	2.11	2.08
Field Dry Density:	(t/m^3)	1.86	1.81	1.68	1.82	1.78
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	7% on 19.0mm	9% on 19.0mm	16% on 19.0mm	8% on 19.0mm
Material Description:		Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	16.5	17.5	21.5	16.0	17.0
Adjusted Lab OMC:	(%)	16.4	18.0	21.6	16.4	17.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.13	2.05	2.00	2.06	2.05
Adjusted Lab Max CWD:	(t/m^3)	2.14	2.07	2.03	2.12	2.08
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**0.5% Dryer than OMC**	**At OMC**	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**
Moisture Ratio	(%)	**101.0**	**98.5**	**100.5**	**98.0**	**96.0**
Density Ratio	(%)	**101.5**	**103.0**	**101.0**	**99.5**	**100.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**100.5**	15	100.97	1.32	0.330
Maximum (%)		**-**	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**19**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	8/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231204
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18335**	**18336**	**18337**	**18338**	**18339**
Field Test Number:		116	117	118	119	120
Date - Field Tested:		6/12/2023	6/12/2023	6/12/2023	6/12/2023	6/12/2023
Time - Field Tested:		1315	1320	1430	1435	1440
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301850.0	301846.0	301989.0	301992.0	301974.0
Position/Offset/Northing:	(m)	6239387.0	6239380.0	6239358.0	6239339.0	6239341.0
Level/Layer/R.L.		55.749	56.007	55.926	55.921	55.733
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.10	2.14	2.09	2.12	2.17
Field Dry Density:	(t/m^3)	1.75	1.85	1.78	1.84	1.87
Retained Oversize (Wet basis):	(%)	14% on 19.0mm	4% on 19.0mm	5% on 19.0mm	3% on 19.0mm	10% on 19.0mm
Material Description:		Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	19.5	15.5	17.5	15.5	15.5
Adjusted Lab OMC:	(%)	19.3	15.9	17.5	16.9	16.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.01	2.10	2.07	2.11	2.09
Adjusted Lab Max CWD:	(t/m^3)	2.06	2.12	2.09	2.11	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**0.5% Wetter than OMC**	**0.5% Dryer than OMC**	**At OMC**	**1.5% Dryer than OMC**	**1.0% Dryer than OMC**
Moisture Ratio	(%)	**102.0**	**97.5**	**99.5**	**91.0**	**94.0**
Density Ratio	(%)	**102.0**	**101.0**	**100.5**	**100.0**	**102.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**100.5**	15	100.97	1.32	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 04/12/2023 to 07/12/2023

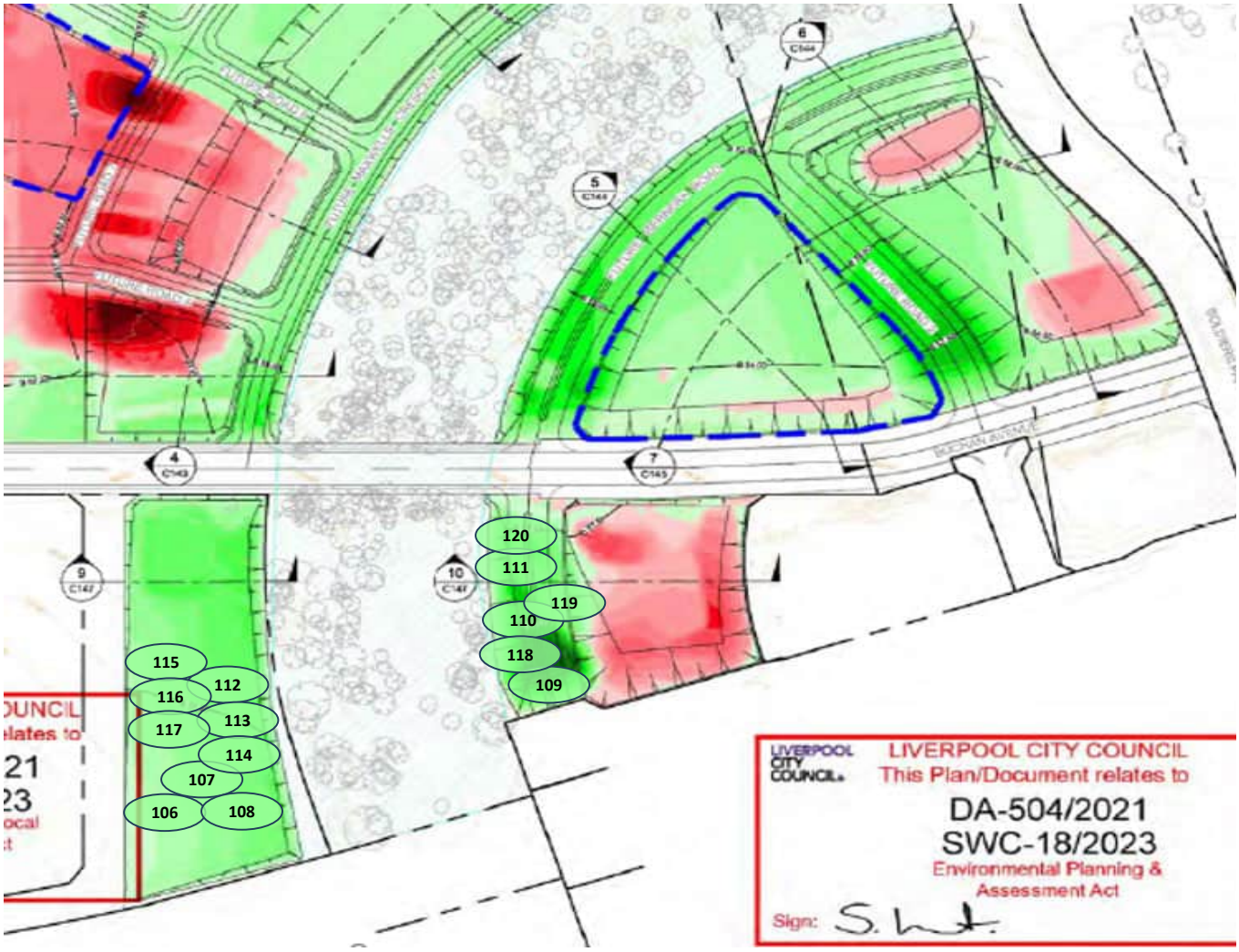
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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**19**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	8/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231204
Lot Number:	-	ITP/PCP:	-



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**20**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	15/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231207
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18488**	**18489**	**18490**	**18491**	**18492**
Field Test Number:		121	122	123	124	125
Date - Field Tested:		7/12/2023	7/12/2023	7/12/2023	8/12/2023	8/12/2023
Time - Field Tested:		1305	1310	1315	1205	1210
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301850.0	301856.0	301853.0	301991.0	301993.0
Position/Offset/Northing:	(m)	6239377.0	6239370.0	6239365.0	6239362.0	6239336.0
Level/Layer/R.L.		56.422	56.558	56.481	55.956	56.222
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.19	2.14	2.10	2.06	2.11
Field Dry Density:	(t/m^3)	1.90	1.88	1.84	1.81	1.85
Retained Oversize (Wet basis):	(%)	16% on 19.0mm	14% on 19.0mm	15% on 19.0mm	9% on 19.0mm	14% on 19.0mm
Material Description:		Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	15.0	13.5	13.5	13.5	14.0
Adjusted Lab OMC:	(%)	15.1	13.8	14.4	13.6	14.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.15	2.10	2.09	2.07	2.06
Adjusted Lab Max CWD:	(t/m^3)	2.17	2.15	2.14	2.10	2.10
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**At OMC**	**0.5% Dryer than OMC**	**At OMC**	**At OMC**
Moisture Ratio	(%)	**98.0**	**98.0**	**95.0**	**101.0**	**99.0**
Density Ratio	(%)	**100.5**	**99.5**	**98.0**	**98.5**	**100.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 07/12/2023 to 13/12/2023

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

Approved By: P.Baltoski
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**20**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	15/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231207
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18493**	**18494**	**18495**	**18496**	**18497**
Field Test Number:		126	127	128	129	130
Date - Field Tested:		8/12/2023	8/12/2023	8/12/2023	8/12/2023	11/12/2023
Time - Field Tested:		1215	1310	1315	1320	1250
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301984.0	301877.0	301875.0	301871.0	301982.0
Position/Offset/Northing:	(m)	6239311.0	6239406.0	6239395.0	6239390.0	6239341.0
Level/Layer/R.L.		56.691	56.248	56.444	56.507	56.586
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.10	2.15	2.05	2.12	2.30
Field Dry Density:	(t/m^3)	1.85	1.91	1.82	1.88	2.03
Retained Oversize (Wet basis):	(%)	14% on 19.0mm	14% on 19.0mm	13% on 19.0mm	15% on 19.0mm	9% on 19.0mm
Material Description:		Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	13.5	12.5	13.0	12.5	13.5
Adjusted Lab OMC:	(%)	13.4	13.0	13.2	12.3	13.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.08	2.13	2.05	2.11	2.19
Adjusted Lab Max CWD:	(t/m^3)	2.13	2.17	2.10	2.16	2.21
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**0.5% Dryer than OMC**	**At OMC**	**At OMC**	**0.5% Dryer than OMC**
Moisture Ratio	(%)	**99.5**	**96.5**	**99.0**	**102.0**	**95.5**
Density Ratio	(%)	**98.5**	**99.0**	**98.0**	**98.0**	**104.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 07/12/2023 to 13/12/2023

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Accreditation number: 20656

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**20**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	15/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231207
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18498**	**18499**	**18500**	**18501**	**18502**
Field Test Number:		131	132	133	134	135
Date - Field Tested:		11/12/2023	11/12/2023	12/12/2023	12/12/2023	12/12/2023
Time - Field Tested:		1253	1256	0813	0823	1038
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301974.0	301992.0	301842.0	301856.0	301986.0
Position/Offset/Northing:	(m)	6239362.0	6239319.0	6239320.0	6239354.0	6239354.0
Level/Layer/R.L.		56.669	56.844	56.8	57.5	56.6
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.18	2.13	2.26	2.26	2.20
Field Dry Density:	(t/m^3)	1.88	1.85	2.06	2.07	1.98
Retained Oversize (Wet basis):	(%)	10% on 19.0mm	11% on 19.0mm	12% on 19.0mm	14% on 19.0mm	11% on 19.0mm
Material Description:		Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	16.0	14.5	9.5	9.5	11.0
Adjusted Lab OMC:	(%)	15.7	16.8	11.6	11.7	13.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.15	2.14	2.15	2.16	2.13
Adjusted Lab Max CWD:	(t/m^3)	2.18	2.17	2.18	2.19	2.16
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**
Moisture Ratio	(%)	**101.0**	**87.0**	**82.5**	**81.5**	**83.5**
Density Ratio	(%)	**100.0**	**98.0**	**103.5**	**103.5**	**102.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 07/12/2023 to 13/12/2023

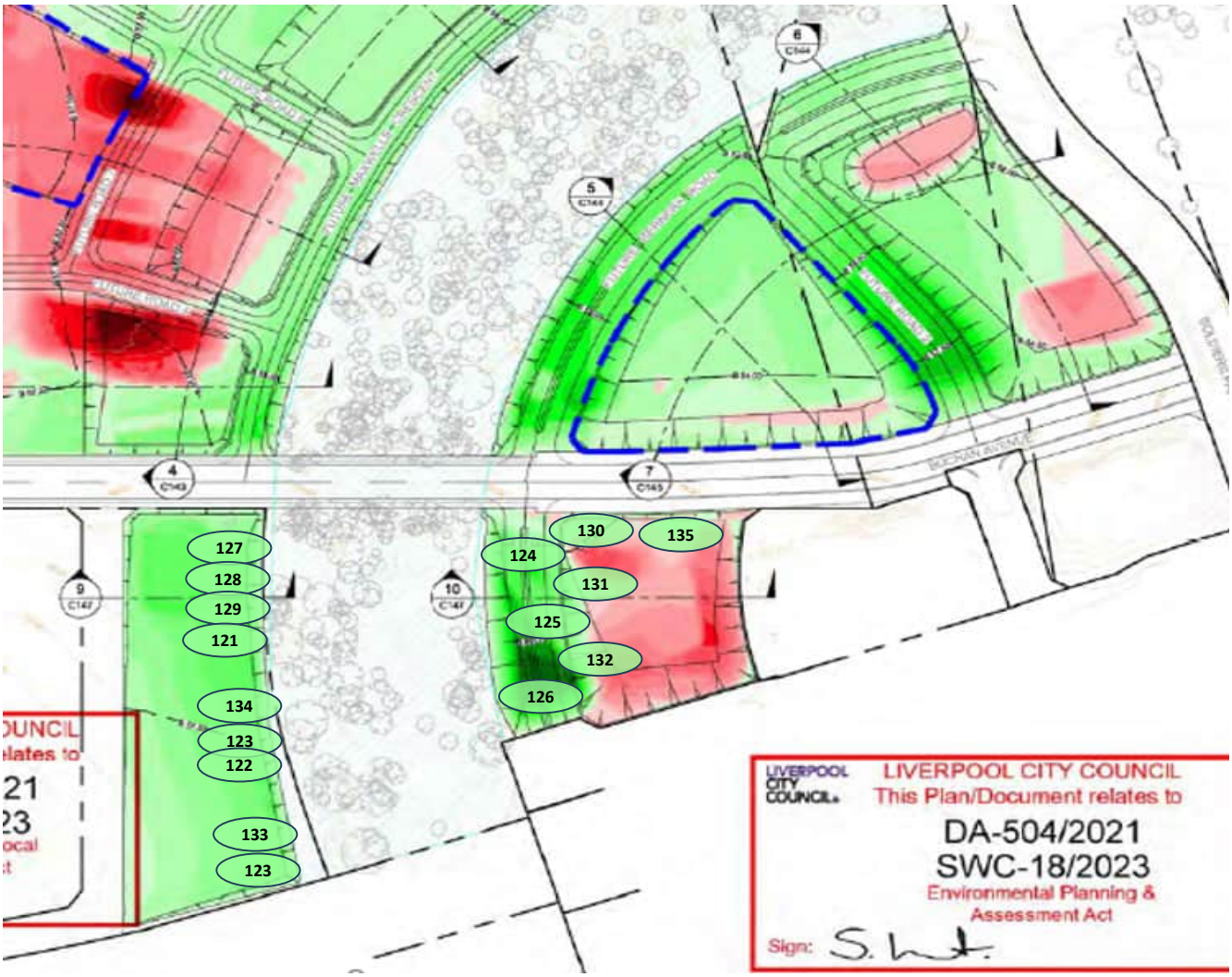
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Accreditation number: 20656

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**20**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	15/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20231207
Lot Number:	-	ITP/PCP:	-



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**22**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	19/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18925**	**18926**	**18927**	**18928**	**18929**
Field Test Number:		136	137	138	139	140
Date - Field Tested:		12/12/2023	12/12/2023	12/12/2023	12/12/2023	13/12/2023
Time - Field Tested:		1044	1050	1059	1548	0822
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301985.0	301973.0	302007.0	302007.0	302000.0
Position/Offset/Northing:	(m)	6239333.0	6239316.0	6239316.0	6239315.0	6239358.0
Level/Layer/R.L.		56.9	57.2	56	56.32	56.81
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.14	2.17	2.13	2.16	2.11
Field Dry Density:	(t/m^3)	1.88	1.90	1.88	1.90	1.90
Retained Oversize (Wet basis):	(%)	11% on 19.0mm	11% on 19.0mm	10% on 19.0mm	11% on 19.0mm	5% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	14.0	14.0	13.0	14.0	11.0
Adjusted Lab OMC:	(%)	16.0	16.5	15.2	16.1	13.0
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.14	2.12	2.13	2.12	2.07
Adjusted Lab Max CWD:	(t/m^3)	2.17	2.15	2.16	2.15	2.08
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**1.5% Dryer than OMC**	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**2.0% Dryer than OMC**
Moisture Ratio	(%)	**88.0**	**86.5**	**87.0**	**88.0**	**84.5**
Density Ratio	(%)	**98.5**	**101.0**	**98.5**	**100.5**	**101.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 13/12/2023 to 18/12/2023

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Accreditation number: 20656

Approved By: P.Baltoski
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**22**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	19/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18930**	**18931**	**18932**	**18933**	**18934**
Field Test Number:		141	142	143	144	145
Date - Field Tested:		13/12/2023	13/12/2023	13/12/2023	13/12/2023	13/12/2023
Time - Field Tested:		0828	0833	0845	1531	1536
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301984.0	301972.0	300206.0	301992.0	301974.0
Position/Offset/Northing:	(m)	6239313.0	6239328.0	6239322.0	6239310.0	6239302.0
Level/Layer/R.L.		57.12	57.43	56.54	57.14	57.68
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.15	2.21	2.15	2.17	2.14
Field Dry Density:	(t/m^3)	1.95	2.01	1.91	1.92	1.88
Retained Oversize (Wet basis):	(%)	12% on 19.0mm	9% on 19.0mm	6% on 19.0mm	10% on 19.0mm	12% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.0	10.0	12.5	13.0	14.0
Adjusted Lab OMC:	(%)	12.3	11.7	13.2	13.4	15.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.12	2.11	2.10	2.06	2.05
Adjusted Lab Max CWD:	(t/m^3)	2.15	2.13	2.11	2.09	2.09
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**	**2.0% Dryer than OMC**
Moisture Ratio	(%)	**82.0**	**87.5**	**95.5**	**97.0**	**87.0**
Density Ratio	(%)	**100.0**	**103.5**	**101.5**	**104.0**	**102.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 13/12/2023 to 18/12/2023

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**22**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	19/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18935**	**18936**	**18937**	**18938**	**18939**
Field Test Number:		146	147	148	149	150
Date - Field Tested:		13/12/2023	14/12/2023	14/12/2023	15/12/2023	15/12/2023
Time - Field Tested:		1547	1115	1423	0854	0900
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302001.0	302001.0	302000.0	302002.0	301967.0
Position/Offset/Northing:	(m)	6239316.0	6239323.0	6239329.0	6239322.0	6239308.0
Level/Layer/R.L.		56.81	56.91	57.1	57.31	57.7
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.16	2.14	2.16	2.11	2.15
Field Dry Density:	(t/m^3)	1.90	1.93	1.95	1.87	1.89
Retained Oversize (Wet basis):	(%)	7% on 19.0mm	8% on 19.0mm	8% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289APRDO3	AS1289APRDO3	AS1289APRDO3	AS1289APRDO3	AS1289APRDO3
Field Moisture Content:	(%)	13.5	11.0	11.0	13.0	13.5
Adjusted Lab OMC:	(%)	14.3	13.2	12.9	14.6	14.0
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.06	2.07	2.11	2.08	2.09
Adjusted Lab Max CWD:	(t/m^3)	2.08	2.09	2.13	2.08	2.09
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**0.5% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**	**0.5% Dryer than OMC**
Moisture Ratio	(%)	**95.5**	**83.0**	**84.0**	**88.5**	**97.0**
Density Ratio	(%)	**104.0**	**102.5**	**101.0**	**101.5**	**102.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 13/12/2023 to 18/12/2023

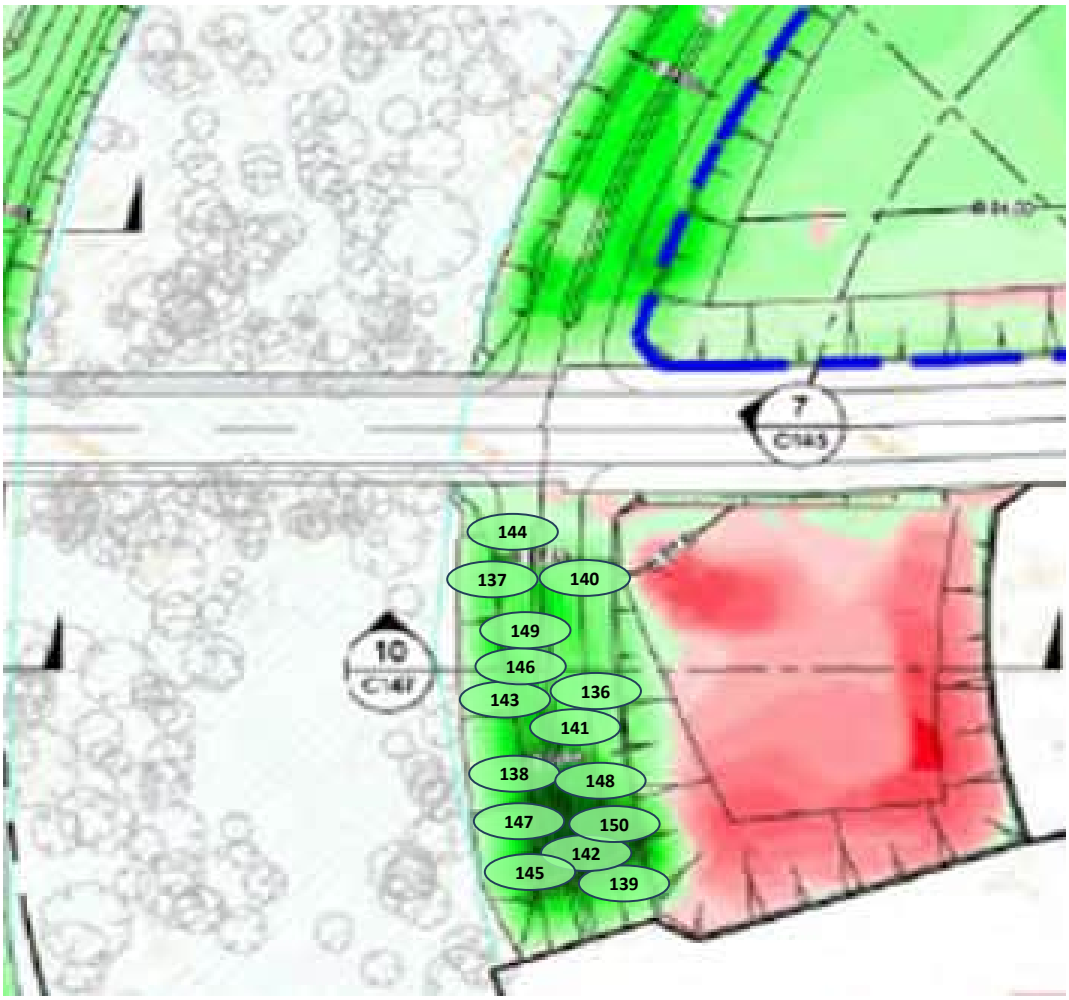
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Accreditation number: 20656

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**22**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	19/12/2023
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	
Lot Number:	-	ITP/PCP:	-



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**23-R1**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	15/01/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18940**	**18941**	**18942**	**18943**	**18944**
Field Test Number:		151	152	153	154	155
Date - Field Tested:		15/12/2023	15/12/2023	18/12/2023	18/12/2023	18/12/2023
Time - Field Tested:		0908	1203	1109	1114	1119
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301967.0	302004.0	301998.0	301987.0	301979.0
Position/Offset/Northing:	(m)	6239308.0	6239315.0	6239359.0	6239335.0	6239313.0
Level/Layer/R.L.		57.721	57.605	56.701	57.002	56.679
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.17	2.14	2.18	2.26	2.16
Field Dry Density:	(t/m^3)	1.90	1.85	1.88	2.01	1.86
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	5% on 19.0mm	10% on 19.0mm	0% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	14.0	15.5	15.5	12.5	16.0
Adjusted Lab OMC:	(%)	14.2	15.4	15.2	13.1	16.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.11	2.10	2.15	2.24	2.08
Adjusted Lab Max CWD:	(t/m^3)	2.11	2.10	2.17	2.26	2.08
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**0.5% Dryer than OMC**	**At OMC**	**0.5% Wetter than OMC**	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**
Moisture Ratio	(%)	**97.5**	**100.0**	**102.5**	**97.0**	**98.0**
Density Ratio	(%)	**102.5**	**102.0**	**100.5**	**100.0**	**104.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 15/12/2023 to 11/01/2024

NATA

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

Approved By: L.Romano
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**23-R1**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	15/01/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18945**	**18946**	**18947**	**18948**	**18949**
Field Test Number:		156	157	158	159	160
Date - Field Tested:		19/12/2023	19/12/2023	19/12/2023	19/12/2023	10/01/2024
Time - Field Tested:		0902	1549	1554	1559	0845
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301839.0	301857.0	301836.0	301884.0	301847.0
Position/Offset/Northing:	(m)	6239405.0	6239389.0	6239360.0	6239409.0	6239357.0
Level/Layer/R.L.		56.305	56.316	57.504	55.528	57.382
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.19	2.28	2.13	2.19	2.17
Field Dry Density:	(t/m^3)	1.92	2.01	1.90	1.95	1.89
Retained Oversize (Wet basis):	(%)	16% on 19.0mm	12% on 19.0mm	10% on 19.0mm	9% on 19.0mm	7% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	13.5	13.0	12.5	12.5	15.0
Adjusted Lab OMC:	(%)	13.1	13.3	14.3	14.7	14.8
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.16	2.17	2.14	2.16	2.15
Adjusted Lab Max CWD:	(t/m^3)	2.21	2.21	2.17	2.19	2.17
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**0.5% Wetter than OMC**	**At OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**At OMC**
Moisture Ratio	(%)	**103.5**	**98.5**	**86.0**	**85.5**	**101.5**
Density Ratio	(%)	**98.5**	**103.0**	**98.5**	**100.5**	**100.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 15/12/2023 to 11/01/2024

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**23-R1**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	15/01/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		**18950**	**18951**	**18952**	**18953**	**18954**
Field Test Number:		161	162	163	164	165
Date - Field Tested:		10/01/2024	10/01/2024	10/01/2024	10/01/2024	10/01/2024
Time - Field Tested:		0850	0855	1110	1115	1355
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301853.0	301883.0	301832.0	301843.0	301883.0
Position/Offset/Northing:	(m)	6239404.0	6239420.0	6239468.0	6239399.0	6239422.0
Level/Layer/R.L.		56.349	55.65	57.251	57.007	55.871
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.17	2.20	2.14	2.18	2.16
Field Dry Density:	(t/m^3)	1.90	1.90	1.88	1.94	1.88
Retained Oversize (Wet basis):	(%)	7% on 19.0mm	10% on 19.0mm	9% on 19.0mm	9% on 19.0mm	11% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	14.0	16.0	13.5	12.5	14.5
Adjusted Lab OMC:	(%)	14.6	16.5	14.0	13.1	14.8
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.19	2.17	2.15	2.18	2.16
Adjusted Lab Max CWD:	(t/m^3)	2.20	2.19	2.17	2.20	2.19
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**	**At OMC**
Moisture Ratio	(%)	**96.5**	**97.0**	**97.0**	**94.5**	**99.0**
Density Ratio	(%)	**98.5**	**100.5**	**98.5**	**99.0**	**98.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 15/12/2023 to 11/01/2024

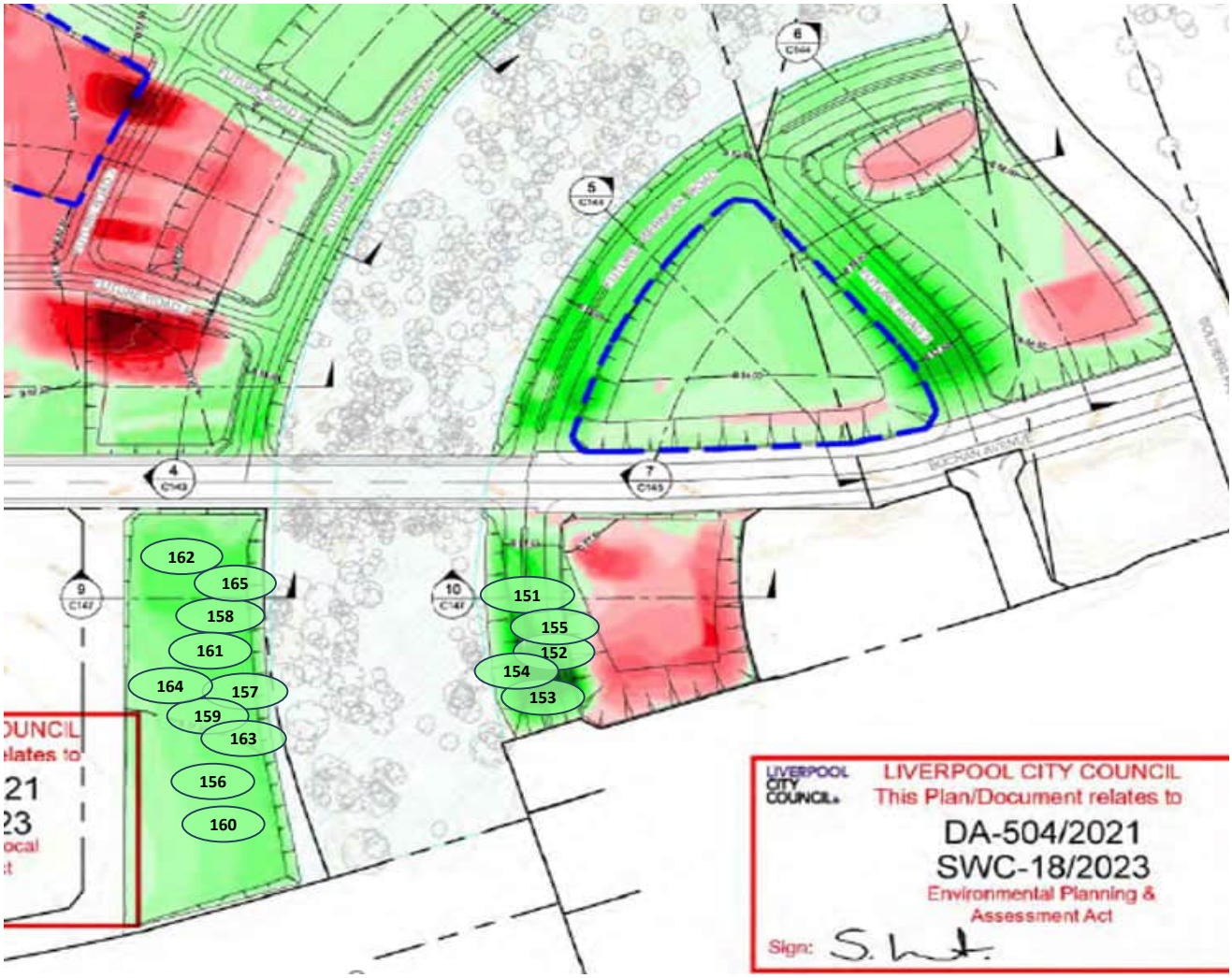
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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**23-R1**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	15/01/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	-
Lot Number:	-	ITP/PCP:	-



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**27**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	7/02/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240119
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		**19918**	**19919**	**19920**	**19921**	**19922**
Field Test Number:		178	179	180	181	182
Date - Field Tested:		19/01/2024	19/01/2024	22/01/2024	22/01/2024	22/01/2024
Time - Field Tested:		1046	1051	1020	1030	1500
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301993.0	301989.0	301984.0	301993.0	301989.0
Position/Offset/Northing:	(m)	6239337.0	6239312.0	6239335.0	6239318.0	6239332.0
Level/Layer/R.L.		58.65	58.95	59.3	59.4	59.2
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.17	2.15	2.12	2.05	2.10
Field Dry Density:	(t/m^3)	1.87	1.84	1.87	1.76	1.80
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	0% on 19.0mm	9% on 19.0mm	10% on 19.0mm	0% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	16.0	16.5	13.5	16.0	17.0
Adjusted Lab OMC:	(%)	15.7	16.7	15.8	16.4	16.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.10	2.05	2.07	2.05	2.15
Adjusted Lab Max CWD:	(t/m^3)	2.10	2.05	2.10	2.08	2.15
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**At OMC**	**2.0% Dryer than OMC**	**0.5% Dryer than OMC**	**0.5% Wetter than OMC**
Moisture Ratio	(%)	**101.0**	**99.0**	**85.5**	**98.0**	**103.0**
Density Ratio	(%)	**103.0**	**104.5**	**101.0**	**98.0**	**98.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**100.6**	15	101.35	2.26	0.330
Maximum (%)		**-**	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		**-**	-	-	-	-
Maximum (%)		**-**	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 19/01/2024 to 31/01/2024

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

Approved By: C.Newman
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**27**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	7/02/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240119
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		**19923**	**19924**	**19925**	**19926**	**19927**
Field Test Number:		183	184	185	186	187
Date - Field Tested:		23/01/2024	23/01/2024	23/01/2024	24/01/2024	24/01/2024
Time - Field Tested:		1000	1020	1300	-	-
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301985.0	301985.0	301989.0	301988.0	302001.0
Position/Offset/Northing:	(m)	6239680.0	6239666.0	6239314.0	6239312.0	6239325.0
Level/Layer/R.L.		57.66	57.23	57.58	60.07	55.12
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.12	2.15	2.05	2.10	2.17
Field Dry Density:	(t/m^3)	1.84	1.87	1.79	1.85	1.86
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	2% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	15.0	15.0	14.5	14.0	16.5
Adjusted Lab OMC:	(%)	17.3	15.4	16.7	15.9	16.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.07	2.08	1.98	2.08	2.09
Adjusted Lab Max CWD:	(t/m^3)	2.07	2.09	1.98	2.08	2.09
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**2.0% Dryer than OMC**	**0.5% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**0.5% Dryer than OMC**
Moisture Ratio	(%)	**87.0**	**96.5**	**88.5**	**87.0**	**98.0**
Density Ratio	(%)	**102.5**	**103.0**	**104.0**	**101.0**	**103.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**100.6**	15	101.35	2.26	0.330
Maximum (%)		**-**	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		**-**	-	-	-	-
Maximum (%)		**-**	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 19/01/2024 to 31/01/2024

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**27**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	7/02/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240119
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		**19928**	**19929**	**19930**	**19931**	**19932**
Field Test Number:		188	189	190	191	192
Date - Field Tested:		24/01/2024	24/01/2024	29/01/2024	30/01/2024	30/01/2024
Time - Field Tested:		-	-	1100	0910	1000
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302048.0	301978.0	302021.0	301965.0	302027.0
Position/Offset/Northing:	(m)	6239605.0	6239314.0	6239627.0	6239300.0	6239551.0
Level/Layer/R.L.		53.92	56.08	55.7	61.2	52.7
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300
Field & Laboratory Results						
Field Wet Density:	(t/m^3)	2.16	2.03	2.08	2.08	2.10
Field Dry Density:	(t/m^3)	1.89	1.79	1.82	1.80	1.84
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	2% on 19.0mm	0% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	14.5	13.0	14.0	15.5	14.0
Adjusted Lab OMC:	(%)	16.9	15.0	16.1	15.5	14.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.10	2.05	2.06	2.09	2.11
Adjusted Lab Max CWD:	(t/m^3)	2.10	2.05	2.06	2.10	2.11
Compactive Effort:		Standard	Standard	Standard	Standard	Standard
Relative Compaction & Moisture						
Moisture Variation	(%)	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**At OMC**	**At OMC**
Moisture Ratio	(%)	**86.5**	**87.0**	**88.0**	**99.0**	**100.5**
Density Ratio	(%)	**103.0**	**99.0**	**100.5**	**99.0**	**99.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**100.6**	15	101.35	2.26	0.330
Maximum (%)		**-**	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		**-**	-	-	-	-
Maximum (%)		**-**	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 19/01/2024 to 31/01/2024

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**27**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	7/02/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240119
Lot Number:		ITP/PCP:	



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**28**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	19/02/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240130
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		**19933**	**19934**	**19935**	**19936**	**19937**
Field Test Number:		193	194	195	196	197
Date - Field Tested:		30/01/2024	31/01/2024	31/01/2024	1/02/2024	1/02/2024
Time - Field Tested:		1020	0900	0910	0900	-
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301989.0	302020.0	302005.0	302065.0	302071.0
Position/Offset/Northing:	(m)	6239521.0	6239539.0	6239539.0	6239627.0	6239601.0
Level/Layer/R.L.		53.2	53	53	53.9	53.2
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.13	2.13	2.12	2.07	2.07
Field Dry Density:	(t/m^3)	1.86	1.81	1.77	1.78	1.79
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	14.5	17.5	19.5	16.0	16.0
Adjusted Lab OMC:	(%)	14.0	17.5	19.4	15.7	15.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.13	2.11	2.12	2.11	2.12
Adjusted Lab Max CWD:	(t/m^3)	2.13	2.11	2.12	2.11	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**0.5% Wetter than OMC**	**At OMC**	**0.5% Wetter than OMC**	**0.5% Wetter than OMC**	**At OMC**
Moisture Ratio	(%)	**103.5**	**100.5**	**101.5**	**102.0**	**101.5**
Density Ratio	(%)	**100.0**	**100.5**	**100.0**	**98.0**	**98.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 30/01/2024 to 09/02/2024

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 20656

Approved By: P.Baltoski
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**28**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	19/02/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240130
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		**19938**	**19939**	**19940**	**19941**	**19942**
Field Test Number:		198	199	200	201	202
Date - Field Tested:		1/02/2024	1/02/2024	2/02/2024	2/02/2024	2/02/2024
Time - Field Tested:		1230	1245	-	-	-
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302054.0	302071.0	302084.0	302062.0	302061.0
Position/Offset/Northing:	(m)	6239594.0	6239589.0	6239630.0	6239626.0	6239644.0
Level/Layer/R.L.		53.03	53.74	53.54	54.51	54.21
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.09	2.10	2.11	2.09	2.01
Field Dry Density:	(t/m^3)	1.76	1.79	1.78	1.72	1.70
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	19.0	17.5	18.5	21.5	18.5
Adjusted Lab OMC:	(%)	18.5	17.2	17.9	21.1	18.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.12	2.10	2.11	2.12	2.05
Adjusted Lab Max CWD:	(t/m^3)	2.12	2.10	2.11	2.12	2.05
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**0.5% Wetter than OMC**	**0.5% Wetter than OMC**	**0.5% Wetter than OMC**	**At OMC**	**At OMC**
Moisture Ratio	(%)	**102.5**	**102.5**	**104.0**	**101.0**	**101.0**
Density Ratio	(%)	**98.5**	**100.5**	**100.0**	**98.0**	**98.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 30/01/2024 to 09/02/2024

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Accreditation number: 20656

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**28**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	19/02/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240130
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		**19943**	**19944**	**19945**	**19946**	**19947**
Field Test Number:		203	204	205	206	207
Date - Field Tested:		2/02/2024	5/02/2024	5/02/2024	8/02/2024	8/02/2024
Time - Field Tested:		-	0900	0910	-	-
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302069.0	302113.0	302090.0	301736.0	301756.0
Position/Offset/Northing:	(m)	6239631.0	6239613.0	6239616.0	6239630.0	6239600.0
Level/Layer/R.L.		53.73	53.23	52.74	62.07	61.35
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.03	2.10	2.12	2.04	2.10
Field Dry Density:	(t/m^3)	1.77	1.83	1.79	1.73	1.81
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	14.5	14.5	18.0	17.5	16.5
Adjusted Lab OMC:	(%)	14.2	14.9	17.9	18.0	16.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.07	2.04	2.05	2.04	2.06
Adjusted Lab Max CWD:	(t/m^3)	2.07	2.04	2.05	2.04	2.06
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**At OMC**	**0.5% Wetter than OMC**	**0.5% Dryer than OMC**	**At OMC**
Moisture Ratio	(%)	**101.5**	**99.0**	**101.5**	**97.0**	**99.5**
Density Ratio	(%)	**98.0**	**103.0**	**103.5**	**99.5**	**102.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 30/01/2024 to 09/02/2024

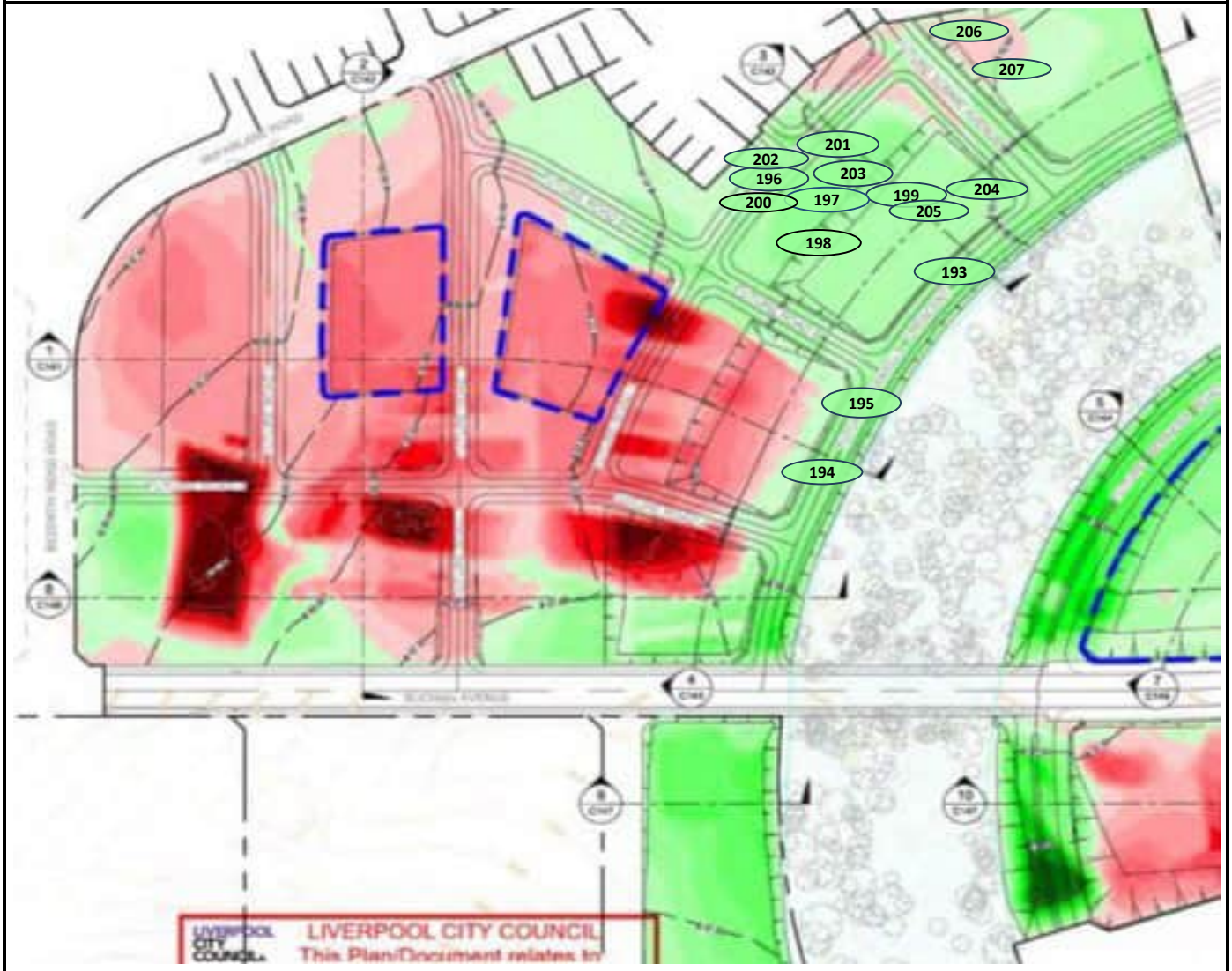
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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**28**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	19/02/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240130
Lot Number:		ITP/PCP:	



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**29-R1**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	4/04/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240208
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		**20264**	**20265**	**20266**	**20267**	**20268**
Field Test Number:		208	209	210	211	212
Date - Field Tested:		8/02/2024	8/02/2024	8/02/2024	9/02/2024	9/02/2024
Time - Field Tested:		1145	1155	1205	1300	1338
Material Source / Type:		Site Won - CI,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301755.0	301742.0	301761.0	301850.0	301866.0
Position/Offset/Northing:	(m)	6239616.0	6239637.0	6239639.0	6239517.0	6239521.0
Level/Layer/R.L.		60.05	62.44	62.67	52.21	53.1
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.08	2.12	2.14	2.07	2.06
Field Dry Density:	(t/m^3)	1.78	1.82	1.87	1.74	1.76
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	16.5	16.0	14.5	19.0	17.5
Adjusted Lab OMC:	(%)	16.2	15.8	16.7	18.8	19.0
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.09	2.05	2.07	2.06	1.99
Adjusted Lab Max CWD:	(t/m^3)	2.09	2.05	2.07	2.06	1.99
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**0.5% Wetter than OMC**	**2.0% Dryer than OMC**	**At OMC**	**1.5% Dryer than OMC**
Moisture Ratio	(%)	**101.5**	**101.5**	**88.0**	**100.5**	**91.0**
Density Ratio	(%)	**99.5**	**103.0**	**103.5**	**100.5**	**103.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 08/02/2024 to 18/02/2024

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Accreditation number: 20656

Approved By: P.Baltoski
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**29-R1**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	4/04/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240208
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		**20269**	**20270**	**20271**	**20272**	**20273**
Field Test Number:		213	214	215	216	217
Date - Field Tested:		13/02/2024	13/02/2024	13/02/2024	13/02/2024	13/02/2024
Time - Field Tested:		1000	1010	1250	1300	1410
Material Source / Type:		Site Won - Cl,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	301942.0	301929.0	302039.0	302005.0	301888.0
Position/Offset/Northing:	(m)	6239505.0	6239519.0	6239646.0	6239684.0	6239534.0
Level/Layer/R.L.		54.69	55.41	55.79	57.23	57.45
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.14	2.15	2.08	2.10	2.08
Field Dry Density:	(t/m^3)	1.87	1.88	1.76	1.76	1.77
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	14.5	15.0	18.0	19.5	18.0
Adjusted Lab OMC:	(%)	16.2	16.8	20.0	21.5	17.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.09	2.09	2.06	2.10	2.06
Adjusted Lab Max CWD:	(t/m^3)	2.09	2.09	2.06	2.10	2.06
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**At OMC**
Moisture Ratio	(%)	**88.0**	**88.0**	**89.0**	**89.5**	**101.0**
Density Ratio	(%)	**102.5**	**103.0**	**101.0**	**100.5**	**101.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 08/02/2024 to 18/02/2024

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**29-R1**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	4/04/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240208
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		**20274**	**20275**	**20276**	**20277**	**20278**
Field Test Number:		218	219	220	221	222
Date - Field Tested:		15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Time - Field Tested:		0930	0940	0945	1245	1255
Material Source / Type:		Site Won - CI,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302188.0	302195.0	302203.0	302210.0	302211.0
Position/Offset/Northing:	(m)	6239620.0	6239620.0	6239641.0	6239600.0	6239630.0
Level/Layer/R.L.		51.56	51.55	51.54	51.43	50.03
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.06	2.05	2.06	2.08	2.13
Field Dry Density:	(t/m^3)	1.78	1.73	1.73	1.80	1.80
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	16.0	18.5	19.0	15.5	18.0
Adjusted Lab OMC:	(%)	17.7	20.2	21.0	17.4	20.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.04	2.09	2.07	2.09	2.06
Adjusted Lab Max CWD:	(t/m^3)	2.04	2.09	2.07	2.09	2.06
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**
Moisture Ratio	(%)	**90.0**	**91.0**	**91.0**	**89.0**	**89.5**
Density Ratio	(%)	**101.0**	**98.0**	**99.5**	**99.5**	**103.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 08/02/2024 to 18/02/2024

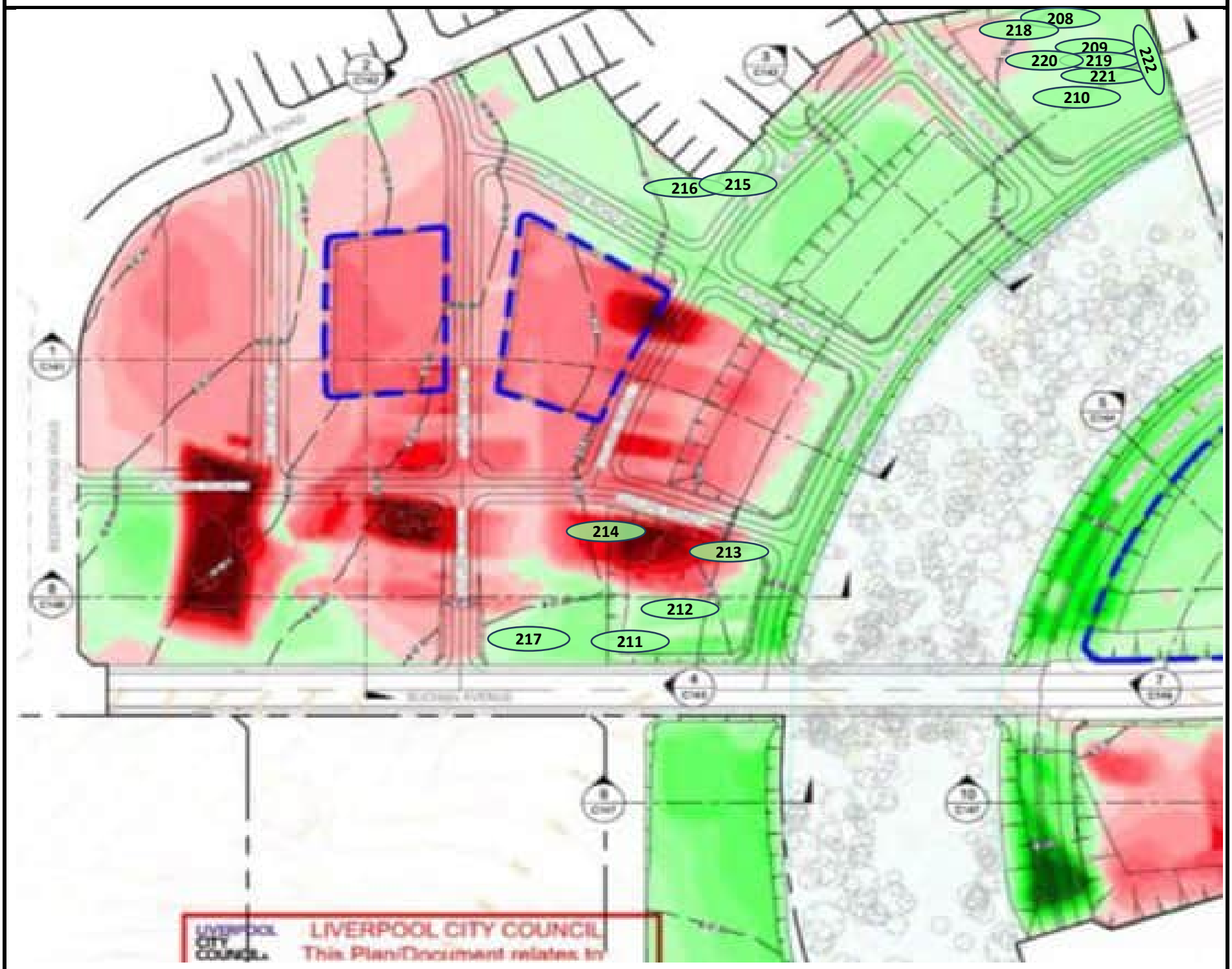
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Accreditation number: 20656

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**29-R1**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	4/04/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240208
Lot Number:		ITP/PCP:	



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**32**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	3/04/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240216
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:		**20674**	**20675**	**20676**	**20677**	**20678**
Field Test Number:		223	224	225	226	227
Date - Field Tested:		16/02/2024	16/02/2024	16/02/2024	16/02/2024	23/02/2024
Time - Field Tested:		0900	0910	0915	1255	0953
Material Source / Type:		Site Won - CI,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing	Refer to Drawing
Location/Chainage/Easting:	(m)	302162.0	302181.0	302206.0	302127.0	302173.0
Position/Offset/Northing:	(m)	6239593.0	6239606.0	6239600.0	6239686.0	6239584.0
Level/Layer/R.L.		51	51.32	50.55	50.38	51.2
Layer Depth:	(mm)	300	300	300	300	300
Depth Tested:	(mm)	300	300	300	300	300

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.10	2.10	2.10	2.17	2.09
Field Dry Density:	(t/m^3)	1.79	1.79	1.80	1.91	1.75
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	17.5	17.0	16.5	14.0	19.0
Adjusted Lab OMC:	(%)	19.5	19.2	18.3	15.9	19.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m^3)	2.05	2.09	2.04	2.09	2.01
Adjusted Lab Max CWD:	(t/m^3)	2.05	2.09	2.04	2.09	2.01
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**2.0% Dryer than OMC**	**0.5% Dryer than OMC**
Moisture Ratio	(%)	**88.5**	**89.0**	**89.5**	**87.5**	**98.5**
Density Ratio	(%)	**102.5**	**100.5**	**103.0**	**104.0**	**104.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 16/02/2024 to 27/02/2024

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Approved By: P.Baltoski
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**32**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	3/04/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240216
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:		**20679**	**20680**	**20681**	**-**	**-**
Field Test Number:		228	229	230	-	-
Date - Field Tested:		23/02/2024	26/02/2024	26/02/2024	-	-
Time - Field Tested:		1308	1312	1326	-	-
Material Source / Type:		Site Won - CI,Gravelly CLAY				
Remarks / Notes:						
Control Line:		Refer to Drawing	Refer to Drawing	Refer to Drawing	-	-
Location/Chainage/Easting:	(m)	301976.0	302018.0	301988.0	-	-
Position/Offset/Northing:	(m)	6239507.0	6239538.0	6239514.0	-	-
Level/Layer/R.L.		52.45	52.89	52.976	-	-
Layer Depth:	(mm)	300	300	300	-	-
Depth Tested:	(mm)	300	300	300	-	-

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.11	2.09	2.09	-	-
Field Dry Density:	(t/m^3)	1.78	1.81	1.82	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:		Silty Clay	Silty Clay	Silty Clay	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	18.5	15.5	14.5	-	-
Adjusted Lab OMC:	(%)	18.1	17.3	16.4	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m^3)	2.05	2.04	2.07	-	-
Adjusted Lab Max CWD:	(t/m^3)	2.05	2.04	2.07	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**1.5% Dryer than OMC**	**2.0% Dryer than OMC**	**-**	**-**
Moisture Ratio	(%)	**101.0**	**90.0**	**88.0**	**-**	**-**
Density Ratio	(%)	**103.0**	**102.5**	**101.0**	**-**	**-**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		**-**	-	-	-	-
Maximum (%)		**-**	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		**-**	-	-	-	-
Maximum (%)		**-**	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 16/02/2024 to 27/02/2024

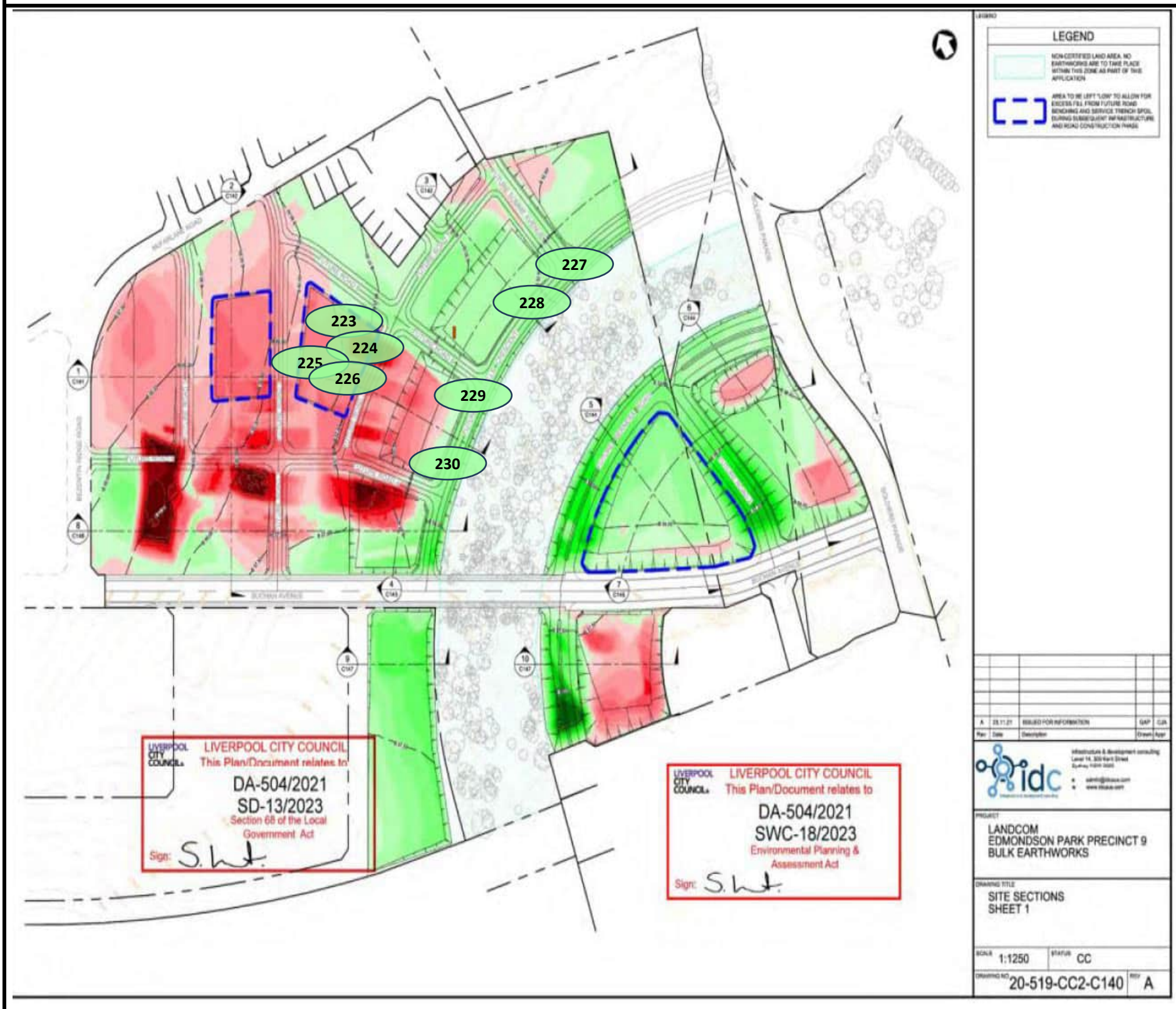
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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	TRN Group	Report No:	**32**
Client Address:	TRN House, Suite 5.02, 90 Podium Way, Oran Park NSW 2570	Report Date:	3/04/2024
Project:	LanEdmSE South & East Road Construction - Buchan Ave Edmondson Park	Project No:	314
Component:	AS 3798.8.2 Level 1 Inspection and Testing	Test Request:	20240216
Lot Number:	-	ITP/PCP:	



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Appendix F – Unexpected Finds Protocol

Unexpected Finds Protocol

