FOUNDATION EARTH SCIENCES

DETAILED SITE INVESTIGATION (DSI)

Property Address
19-23 Rosalind Street, Cammeray NSW

Prepared for
Perifa Rosalind Developments Pty Ltd

Date

January 2026

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ABBREVIATIONS

AIP	*Australian Institute of Petroleum Ltd*	**QA/QC**	*Quality Assurance, Quality Control*
ANZECC	*Australian and New Zealand Environment and Conservation Council*	**RAC**	*Remediation Acceptance Criteria*
AST	*Aboveground Storage Tank*	**RAP**	*Remediation Action Plan*
BGL	*Below Ground Level*	**RPD**	*Relative Percentage Difference*
BTEX	*Benzene, Toluene, Ethyl benzene and Xylene*	**SAC**	*Site Assessment Criteria*
COC	*Chain of Custody*	**SVC**	*Site Validation Criteria*
DA	*Development Approval*	**TCLP**	*Toxicity Characteristics Leaching Procedure*
DP	*Deposited Plan*	**TPH**	*Total Petroleum Hydrocarbons*
DQOs	*Data Quality Objectives*	**UCL**	*Upper Confidence Limit*
EPA	*Environment Protection Authority*	**UST**	*Underground Storage Tank*
ESA	*Environmental Site Assessment*	**VHC**	*Volatile Halogenated Compounds*
HIL	*Health-Based Soil Investigation Level*	**VOC**	*Volatile Organic Compounds*
LGA	*Local Government Area*	**DPI**	Department of Primary Industries
NEHF	*National Environmental Health Forum*		
NEPC	*National Environmental Protection Council*		
NHMRC	*National Health and Medical Research Council*		
OCP	*Organochlorine Pesticides*		
OPP	*Organophosphate Pesticides*		
PAH	*Polycyclic Aromatic Hydrocarbon*		
PCB	*Polychlorinated Biphenyl*		
PID	*Photo Ionisation Detector*		
PQL	*Practical Quantitation Limit*		

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EXECUTIVE SUMMARY

This Detailed Site Investigation (DSI) has been prepared by Foundation Earth Sciences on behalf of Perifa Rosalind Development Pty Ltd (Perifa) to assess the potential environmental impacts that could arise from the construction of a seniors housing development (the development) at 19-23 Rosalind Street, Cammeray (the site). This report supports the assessment of the proposed development under Part 4 of the Environmental Planning and Assessment Act 1979.

Industry specific SEARs were issued on 17 October 2025 for the development. Development for the purposes of seniors housing with an Estimated Development Cost (EDC) of more than $30 million and includes a residential care facility is state significant development under Schedule 1, Section 28 of the State Environmental Planning Policy (Planning Systems) 2021 (Planning Systems SEPP). The proposed development has an EDC exceeding $30 million and includes a residential care facility component. Accordingly, it is considered State Significant Development.

The proposed development includes the construction of a new seniors housing development and comprises the following works:

- Site preparation works including demolition of three (3) existing residential flat buildings and associated parking facilities as well as bulk excavation.
- Construction of two (2), five (5) and six (6) storey buildings, Building A and B respectively, comprising the following:
  - Building A:
    - 7 x 2-bedroom ILUs.
    - 11 x 3-bedroom ILUs; and
    - Internal communal space for use by residents.

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- Building B:
    - 11 x 2-bedroom ILUs.
    - 20 x 3-bedroom ILUs.
    - Two (2) residential care facility beds and residential care hub; and
    - Internal communal facilities for use by all residents comprising a cinema, private dining room, gymnasium and pool.

- Communal open space and associated landscaping.
- Construction of two (2) basement levels to facilitate car parking accessible via Rosalind Street.
- Ground Level neighbourhood shop located in Building A.
- Extension and augmentation of utility infrastructure as required.

Soils sampled across the Site were assessed against the Site Acceptance Criteria (SAC) provided by the National Environment Protection (Assessment of Site Contamination) Measure (NEPM 2013) Table 1A – Residential B.

The soil data concluded the following:

- The soil laboratory results were below the adopted detection limits and/or the relevant guideline criteria, apart from BH1 where asbestos was detected within the soil material.
- Therefore, upon review of the decision area dataset results, the null hypothesis for the investigation was accepted due to the asbestos contamination present on the site.

The following lines of evidence support the low to moderate risk groundwater conclusions in relation to site suitability:

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- *Whether sources have been removed* – no immediate sources of contamination were identified on the site or within the surrounding areas. Therefore, the risk of groundwater contamination is considered low. However, further investigation may be required if future structures or sources are identified.
- *Contaminant sources unrelated to the site* – there is no information on the groundwater quality, however the land use on the site and the surrounding areas is predominately residential. There is unlikely then to be any risk of soil and/or groundwater contamination.
- *Quantity of contaminants and its mobility characteristics* – during the investigation, minor elevated heavy metals of Chromium, Copper, Nickel & Zinc were identified in GW6, as well as Nickel & Zinc in GW1 and GW2. It is considered that these could be related to regional contamination and/or background levels. The bedrock below the site was also determined to be Sandstone, therefore minimising the movement groundwater within the site and surrounding areas (which is reflected by the similar exceedances of heavy metal contamination within the site).
- The site is not located in a catchment with contains the water quality objectives of drinking water (i.e., beneficial use) and therefore drinking water guidelines were not applied.

It is concluded then that the heavy metal exceedances within the site are of limited concern in relation to the GIL.

As part of the remediation works and post demolition of the existing site structure's additional locations are recommended to be completed targeting the former building footprints.

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Based on the historical review, environmental information, proposed development and laboratory results of the investigation, the site can be made ***suitable*** for the proposed development, subject to the following:

- It is considered that the site would be deemed suitable for the proposed development subject to the implementation of a Remediation Action Plan (RAP) to manage the abovementioned environmental concerns and data gaps.
- Any soil requiring removal from the site, as part of future site works, should be classified in accordance with the "Waste Classification Guidelines, Part 1: Classifying Waste" NSW EPA (2014).

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1.0 INTRODUCTION

This Detailed Site Investigation (DSI) has been prepared by Foundation Earth Sciences on behalf of Perifa Rosalind Development Pty Ltd (Perifa) to assess the potential environmental impacts that could arise from the construction of a seniors housing development (the development) at 19-23 Rosalind Street, Cammeray (the site). This report supports the assessment of the proposed development under Part 4 of the Environmental Planning and Assessment Act 1979.

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Soils sampled across the Site were assessed against the Site Acceptance Criteria (SAC) provided by the National Environment Protection (Assessment of Site Contamination) Measure (NEPM 2013) Table 1A – Residential B.

2.0 OBJECTIVE

The format of this report closely follows that recommended in the NSW EPA "*Consultants Reporting on Contaminated Land* "dated 2020. The NSW Office of Environment and Heritage (OEH) indicate that an Environmental Investigation should provide comprehensive information on:

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- Any issues raised in preliminary investigations.
- The type, extent and level of contamination.
- Contaminant dispersal in the air, surface water, soil and dust.
- The potential effects of contaminants on public health and the environment.
- Where applicable, off-site impacts on soil, sediment and biota; and
- The adequacy and completeness of all information available to be used in making decisions on remediation.

The project objectives of this Detailed Site Investigation (DSI) are to satisfy the stated NSW EPA Detailed Site Investigation requirements in accordance with *NSW EPA, Consultants Reporting on Contaminated Land, 2020.* Specifically, this investigation will consider the potential for suspected historical activities to have caused contamination at the Site and determine land use suitability for the proposed land use.

The proposed investigation program is designed to assess the presence of any unacceptable on site or off-site risk to human health or the environment. The report will draw conclusions regarding the land use suitability of the Site for the proposed land use or provide recommendations to enable such conclusions and determine the need for a further assessment.

3.0 SCOPE OF WORKS

The scope of works for this Detailed Site Investigation (DSI) included:

- Collecting site information, review of historical information and past site practices, (site surveys, site records on waste management practices, NSW Land Titles Office

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records of ownership, aerial photographs obtained from the NSW Department of Lands, SafeWork NSW records and site interviews);

- A site inspection to identify areas of environmental concern, on-site waste disposal practices and location of sewers, drains, holding tanks, Underground Storage Tanks, Aboveground Storage Tanks and pits, spills and ground discolouration etc.
- A targeted soil boring/sampling investigative study – formulating and conducting a sampling plan and borehole investigation; the soil samples are taken and submitted for analysis on contaminants.
- Groundwater installation and sampling.
- Laboratory analysis and results from sample analysis – findings and comparison to regulatory guidelines.
- Quality Assurance/Quality Control (QA/QC) – all QA/QC procedures were undertaken in accordance with the Foundation Earth Sciences Quality Assurance/Quality Control manual.
- Interpretation of results and findings; and
- Recommendations and final conclusions drawn from interpretation of the results.

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4.0 SITE IDENTIFICATION AND SITE HISTORY REVIEW

4.1 Site identification

The site is identified as follows:

Table 1A: Site Identification Review

Site Identifier	Site Details	
Site Location	19-23 Rosaline Street, Cammeray NSW	
Lot/DP	SP4657 SP5218 SP16181	
Site Coordinates #	NE Corner: Latitude: -33.824862, Longitude: 151.208379	
Parish	Willoughby	
County	Cumberland	
Site Area #	Approximately 4,093m^2	
Local Government Area (LGA)	The North Sydney Council	
Zoning##	R4 – High Density Residential	
Surrounding Land Uses	*North*	Rosalind St, then Residential and Warringah Fwy
	South	Residential, then Ernest St, Residential and School
	East	Residential then Miller St, Residential and School
	West	Residential, then West St and Residential

Notes: # Six Maps

refer to NSW Planning Portal

https://www.planningportal.nsw.gov.au/spatialviewer/#/find-a-property/address

//www.planningportal.nsw.gov.au/find-a-property

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4.2 Underground Services

'Dial Before You Dig' plans were requested and reviewed for the site. Plans were provided by Ausgrid, Jemena Gas North, NBN Co NswAct, North Sydney Council, Sydney Water, Telstra NSW Central, TGP Telecom (NSW) & Verizon Business (NSw). The plans did not indicate the presence of any major underground service or utilities easements at the site, apart Ausgrid, Jemena Gas North, NBN Co, Sydney Water & Telstra.

The plans provided by Ausgrid indicated connection points within the site from a transmission point in the north-eastern corner. The Jemena Gas plans indicated three connection points along the northern boundary of the site within each property. The plans provided by NBN Co indicated a mains line running along the eastern boundary of the site (from the northern to the southern boundary). The Sydney Water plans indicated a sewer line running along the southern boundary, with multiple connection points running within the site. The Telstra NSW plans also indicated a mains line running along the eastern boundary of the site, with an arm extending into each of the properties on the site. It is noted that the associated underground service is considered as a potential preferential pathway.

Refer to **Appendix A** – BYDA Plans.

4.3 Site Description

The site is located at 19–23 Rosalind Street, Cammeray NSW within the North Sydney Local Government Area (LGA). It comprises three (3) allotments legally described as SP4657, SP5218 and SP16181, and occupies a total area of approximately 4,100m. Each respective lot currently comprises a three (3) storey residential flat building with the two (2) of the rear buildings situated on battleaxe allotments connected to Rosalind Street.

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4.4 Secretary's Environmental Assessment Requirements

This report has been prepared to respond to the Secretary's Environmental Assessment Requirements (SEARS) for SSD-96505456. Specifically, this report has been prepared to respond to those SEARs outlined in **Table 1B** below.

Table 1B: SEARs relevant to this report

SEARs	SEARs description	Report name and section
Contamination and Remediation	In accordance with Chapter 4 of the *State Environmental Planning Policy (Resilience and Hazards) 2021*, assess 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 Report If required: Detailed Site Investigation Remedial Action Plan Preliminary Long-term Environmental Management Plan

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4.5 Review of aerial photographs

The following information regarding the aerial photographs has been obtained and the summary of this review are presented in the following table:

Table 2: Review of Aerial Photographs

Year	Site		Surrounding areas
1943	Residential	The site appeared to be subdivided into two residential properties. The eastern property appeared to have a residential dwelling in the north-eastern corner, shed/storage structure and driveway. A portion of the driveway extends to the south-eastern corner of the site, along which two storage structures and landscaped areas are located. In the western portion of the property, a residential dwelling was located in the north-western corner. The rest of the site is dominated by vacant landscaped land.	N: Road then residential S: Residential E: Residential with some vacant land, then road and residential W: Residential, then road, residential and a cemetery.
1955	Residential	No major changes, other than a structure along the southern boundary of the site being removed.	N: No major changes S: Some residential properties have been cleared, property boundaries redefined and new residential structures have been constructed. E: Previously vacant properties have been developed into residential lots. A recreational area (most likely a bowling club) also appeared to be established.

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			W: No major changes
1965	Residential	The previous site features appeared to be cleared from the site. Three separate lots were established, connected by a shared sealed driveway along the eastern boundary. The lots each appeared to have a residential apartment building, with carparking areas below and portions of landscaped areas.	N: Some of the residential properties appeared to be cleared, leaving vacant land. S: Some of the previous residential properties appeared to be cleared. E: No major changes other than some residential properties being cleared. A carparking area has also been developed next to the bowling club. W: Some residential properties have been cleared, and residential apartment buildings have been constructed.
1986	Residential	No major changes, other than the growth of trees on the site.	N: The cleared properties have been developed into the Warringah Freeway. Some residential apartment buildings were also observed. S: The cleared land appeared to be subdivided and redeveloped into multiple residential apartment buildings. E: Some residential properties have been redeveloped into residential apartment buildings. W: No major changes, other than the cemetery being redeveloped into a recreational area (park)
1994	Residential	No major changes	No major changes
2005	Residential	No major changes	N: More residential apartments have been developed S: No major changes

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			E: Some residential properties have been redeveloped into residential apartment buildings & townhouses. W: No major changes
2013	Residential	No major changes	No major changes, other than the carparking area to the east being redeveloped into residential apartments.
Current	As per inspection	The site is as inspected (section 7.1)	As per inspection.

Prior to 1943, the site appeared to be subdivided into two residential properties, each with a residential dwelling along the northern boundary and storage structures, including some extending along the eastern boundary. The western portion of the site appeared to be dominated by vacant land. By 1955, structures along the southern boundary appeared to be removed. By the mid-1960s, the previous site features had been cleared and divided into three separate lots. On each lot, a residential apartment building appeared to be developed with carparking areas below and landscaped areas. From this time to the present, no major changes were observed.

The surrounding areas prior to 1943 appeared to be dominated by residential properties, with a cemetery being noted to the north-west as well as some vacant portions of land to the east. By 1955, some residential properties to the south appeared to be redeveloped, and vacant properties to the east were developed into residential lots as well as a recreational area (Bowling Club). In the mid 1960s, several properties to the north, south and east of the site appeared to be cleared. At this time, a carparking area (in association with the Bowling Club) and new residential apartment buildings to the west were constructed. By 1985, the cleared properties to the north had been redeveloped into the Warringah Freeway. Residential apartment buildings appeared to be constructed in the cleared portions of land in the north, south and east of the site. At this time, the cemetery

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also appeared to be redeveloped into a recreational area (park). No major changes were observed from this time until 2005 where more residential apartment buildings appeared to be constructed in the north and east, as well as some townhouses. By 2013, the carparking area to the east also appeared to be redeveloped into residential apartments. No other major changes were noted form this time to the present.

Refer to **Appendix J** – Aerial Photographs

4.6 Title search

A review of historical documents held at the NSW Department of Lands offices was undertaken to characterise the previous land use and occupiers of the site.

Table 3a: Historical land title data

SP4657 – 19 Rosalind Street, Cammeray NSW		
Year	**Proprietor**	**Company/ Personal occupation/ other**
23/05/1975 – Current	The owners – Strata Plan No.4657	
4/05/1967	Equitable Investments Pty Ltd	
4/04/1961	Stardust Investments Pty Ltd	
3/11/1953	William Bromwell	
15/05/1930	Percy Trust & Charles Trust	
20/05/1924	Ernest Albert Woodberry	
10/05/1919	Valentine Ceclil Woodberry	
29/12/1911	Ernest Woodberry	
1856	John Glover & Vinzenz Zahel	

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Table 3b: Historical land title data

SP5218 21 Rosalind Street, Cammeray NSW		
Year	**Proprietor**	**Company/ Personal occupation/ other**
30/04/1995 – Current	The owners – Strata Plan No.5218	
18/09/1969	Boysell Pty Ltd	
13/04/1965	John Henry Tippett & Phyllis Jean Tippett	
21/03/1960	Egerton Hugh Alfred Powers	
15/0/1950	Brian Anthony Ricketts	
13/09/1943	Arnold Fisher	
27/04/1943	Otto Brown	
4/01/1929	Joseph William Murdoch & Elanora Murdoch	
25/03/1911	Lila White	
9/02/1854	William Henry Harding	

Table 3c: Historical land title data

SP16181 23 Rosalind Street, Cammeray NSW		
Year	**Proprietor**	**Company/ Personal occupation/ other**
12/01/1981 – Current	The owners – Strata Plan No.16181	
12/04/1966	Equitable Investments Pty Ltd	
12/04/1961	Stardust Investments Pty Ltd	

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21/10/1960	Middle Harbour Investments Pty Ltd	
5/10/1922	Goulay Brothers Ltd	
23/02/1920	Goulay Brothers Ltd	
5/01/1920	Henry Goulay	
11/01/1912	David Brand Goulay	
1856	John Glover & Vinzenz Zahel	

The land titles have indicated:

- SP4657 (19 Rosalind St) titles revealed the property was privately owned during the mid-1800s and from 1911 to 1961. At this time, ownership was transferred to commercial entities. By 1975, a Strata Plan had been established and has remained to the present time.
- SP5218 (21 Rosalind St) land titles revealed private ownership during the mid-1800s and from 1911 to 1969. At this time, a commercial entity owned the site until and unknown time. From 1995 to the present time, a Strata Plan was utilised.
- SP16181 (23 Rosalind St) land titles revealed private ownership during the mid-1800s and from 1912 to 1920. From this time until 1981, the property was owned by a number of commercial entities. From 1981 to the present, a Strata Plan has been utilised.

Refer to **Appendix F** – Land Title Information

4.7 Anecdotal Evidence

No anecdotal evidence was available at the time of the investigation.

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4.8 NSW EPA Records

The NSW EPA publishes records of contaminated sites under Section 58 of the Contaminated Land Management (CLM) Act 1997. The notices relate to investigation and/or remediation of site contamination considered to pose a significant risk of harm under the definition in the CLM Act.

A search of the database revealed that the subject site was not listed. There was one (1) property listed within the suburb of Cammeray, but it was located over 500m from the site.

It should be noted that the NSW EPA record of Notices for Contaminated Land does not provide a record of all contaminated land in NSW.

Refer to **Appendix B** – NSW EPA Records.

4.9 NSW EPA POEO Register

A search of the POEO Register revealed that the site was not listed. No other locations were listed within the suburb of Cammeray.

Refer to **Appendix B** – NSW EPA Records.

4.10 NSW EPA Notified Contaminated Sites

The NSW EPA publishes a list of notified contaminated sites each month. The list of notified sites contain land that has been notified to the EPA as being potentially contaminated.

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A search of the list was completed on the 8th October 2025. The search indicated the site was not listed. Two (2) properties were listed within the suburb of Cammeray, both of which were located over 500m from the site.

Refer to **Appendix B** – NSW EPA Records.

4.11 PFAS Preliminary Screen

NSW EPA requires that PFAS is considered when investigating land contamination. The preliminary screen is based on guidelines from the PFAS National Environmental Management Plan (NEMP 2020). From this screen, a decision can be made as to whether PFAS sampling of soil and groundwater is required.

Table 4: PFAS Preliminary Screen

Preliminary Screen	Risk of Occurrence
Any past or present site activity listed in NEMP 2020 as being activity associated with PFAS contamination?	L
Any past or present off-site activity up-gradient / adjacent to the site listed in NEMP 2020 as being activity associated with PFAS contamination?	L
Did fire training involving the use of suppressants occur from 1970 to 2010?	L
Have fuel fires ever occurred on site from 1970 to 2010?	L
Have PFAS been used in manufacturing or stored on site?	L
Could PFAS have been imported to the site in fill materials from a site activity listed in NEMP 2020?	L
Could PFAS contaminated groundwater or run-off migrated to the site	L

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Is the site or adjacent site listed in the NSW EPA PFAS Investigation Program	No
If the risk is medium or high in any of the above, does the inclusion of preliminary sampling / testing of PFAS in soil (including ASLP) and water need to be included?	No

- Note 1
  - Risk: L – low (all necessary documentation has been reviewed and there is no recorded instance or compelling rationale),
  - M – medium/moderate (all necessary documentation has been reviewed and there is potential evidence of a recorded instance with compelling rationale);
  - H – high (all necessary documentation has been reviewed and there is evidence of a recorded instance with compelling rationale); r
  - Risk, N/A – not applicable (or "-")].
  - No /Yes
- Note 2 Activities listed in Appendix B of the NEMP (2020).
- Note 3 Runoff from up-gradient PFAS use may impact surface water, soil, sediment and groundwater.
- Note 4 PFAS is used wide range of industrial processes and consumer products, including in the manufacture of non-stick cookware, specialised garments and textiles, ScotchguardTM and similar products (used to protect fabric, furniture, leather and carpets from oils and stains), metal plating and in some types of fire-fighting foam.
- Note 5 https://www.epa.nsw.gov.au/your-environment/contaminated-land/pfas-investigation-program

The potential for PFAS to be present on-site was considered low and subsequently PFAS sampling / analysis of the imported fill material areas was not undertaken.

4.12 Previous Investigations

The following are previous investigations for the property that were obtained by FES:

- Foundation Earth Sciences (2025), "Preliminary Site Investigation" for 19-23 Rosalind Street, Cammeray NSW, project reference: E3403, dated October 2025.
- Foundation Earth Sciences (2025), "Preliminary Acid Sulphate Soil Assessment" for 19-23 Rosalind Street, Cammeray NSW, project reference: E3403-4, dated October 2025.

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4.12.1 Preliminary Site Investigation – FES, October 2025

Foundation Earth Sciences was appointed by Perifa Rosalind Developments Pty Ltd to undertake a Preliminary Site Investigation (PSI) for the property situated at 19-23 Rosalind Street, Cammeray NSW.

Founded on the investigation, including the proposed land use, previous site history, underground service plans, land title information & site inspection, the potential for significant soil and/or groundwater impact is considered a low to moderate risk. In applying the NEPM 2013 Schedule B2 "Guideline on Site Characterisation"; there is a sufficient evidence, uncertainty and/or suspicion of contamination, therefore further investigation is recommended. A hazardous materials assessment is recommended to be completed prior to the demolition of the site.

The following data gaps were identified:

- The soil and groundwater quality at the site have not been investigated.

Based on the results of this investigation, it is considered that the risk to human health and the environment associated with any potential soil contamination at the site are low to moderate in the context of the proposed use of the site. The site ***can be made suitable*** for the proposed development, subject to the following recommendations:

- Preparation of a Detailed Site Investigation (Phase 2 Environmental Site Assessment) by a suitably qualified Environmental Consultant.
- Any soil requiring removal from the site, as part of future site works, should be classified in accordance with the "Waste Classification Guidelines, Part 1: Classifying Waste" NSW EPA (2014).

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4.12.2 Preliminary Acid Sulphate Soil Assessment – FES, October 2025

Foundation Earth Sciences was appointed by Perifa Rosalind Developments Pty Ltd to prepare a Preliminary Acid Sulphate Assessment for the property located at 19-23 Rosalind Street, Cammeray NSW. The assessment of acid sulphate material can be quite complex and can have a lot of interferences associated with the test methods and soil matrix. The following points outline the evidence to support the site is ***NOT*** impacted to the maximum depth of sampling:

- Analysis using the pHf showed the soil indicators to be absence for AASS.
- Analysis using the pHfox field test protocol showed the soil indicators to be unlikely for AASS / PASS due to PH values.
- Analysis using the Chromium reducible suite indicated that organic sulphur was detected but no inorganic sulphur sources were present above the relevant action criteria.
- The site is located at an elevation of approximately 88-90m AHD according to Google Earth. Acid Sulphate Soils occur in soil horizons *less than 5m AHD*.

Therefore, it has been determined that the site is ***NOT impacted by Acid Sulphate Soils*** within the borehole locations ***BH2, BH4, BH6 & BH10*** to a maximum depth of analysis. Therefore, an Acid Sulphate Soil Management plan (ASSMP) is not required for the site as it is not impacted with AASS / PASS to the maximum depth of analysis.

4.13 Integrity Assessment

The information found in the historical sources has been found to be in general concurrence. It is therefore considered that accuracy of this data is acceptable for this investigation.

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5.0 REVIEW OF ENVIRONMENTAL INFORMATION

Table 5: Site Condition and Surrounding Environment Review

Site Information	Descriptions
Sensitive Receivers	The nearest sensitive human receptors are the current and future users of the site, construction workers during the site redevelopment and the public. The nearest watercourse is Willoughby Creek, located approximately 741m north-east of the site.
Soil Landscape *Review of NSW Soil and Land Information website ESPADE.*	The Soil Landscape Map viewed on NSW ESPADE indicates that the site is in Gymea & Blacktown landscape areas. Gymea – undulating to rolling rises and low hills on Hawkesbury Sandstone. Local relief 20-80m, slopes 10-25%. Rock outcrop <25%. Broad convex crests, moderately inclined sideslopes with wide benches, localised rock outcrop on low broken scarps. Extensively cleared open-forest (dry sclerophyll forest) and eucalypt woodland. Blacktown – gently undulating rises on Wianamatta Group shale and Hawkesbury shale. Local relief to 30m, slopes are usually <5%. Broad rounded crests and ridges with gently inclined slopes. Cleared eucalypt woodland and tall open-forest (wet sclerophyll forests).
Topography	Gymea – undulating to rolling low hills with local relief 20-80m and slopes of 10-25%. Sideslopes with narrow to wide outcropping sandstone rock benches (10-100m), often forming broken scarps of <5m. Blacktown – gently undulating rises on Wianamatta Shale with local relief 10-30m and slopes generally <5% but up to 10%. Crests and ridges are broad (200-600m) and rounded with convex upper slopes grading into concave lower slopes. Rock outcrop is absent.

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<table>
<tr><td>Geological Profile</td><td colspan="6">The Geological Map of Sydney (Geological Series Sheet 9130, Scale 1:100,000, 1983), published by the Department of Mineral Resources indicates the residual soils within the site to be underlain by Triassic Age Shale of the Wianamatta Group, comprising black to dark grey shale and laminite.</td></tr>
<tr><td>Presence of Acid Sulphate Soils</td><td colspan="6">A review of the “eSPADE” map indicated that the site is in an area of “No Known Occurrence” of acid sulphate soils.</td></tr>
<tr><td rowspan="3">Localised Hydrogeology

Review of DPI (Office of Water) Database. Copies of the groundwater bore records are in:

Appendix D – DPI (Office of Water) Database Records.</td><td>Number</td><td>Location from Site</td><td>Depth (m BGL)</td><td>SWL (m BGL)</td><td>Use</td><td>Water Bearing Zones</td></tr>
<tr><td>GW023150</td><td>1.225km E</td><td>1.80</td><td>-</td><td>Domestic, Recreational</td><td>1.20-1.20</td></tr>
<tr><td>GW105224</td><td>1.195km NW</td><td>132.40</td><td>35.00</td><td>Domestic</td><td>29.00-35.00, 98.00-100.00</td></tr>
<tr><td>Nearest Surface Water Body</td><td colspan="6">The nearest watercourse is Willoughby Creek, located approximately 741m north-east of the site.</td></tr>
<tr><td>Local Meteorology
(Bureau of Meteorology BOM website)
Appendix N – BOM Data.</td><td colspan="6">The monthly rainfall of the local surrounding area is represented by the data collected from the BOM rainfall gauge located in Sydney (Observatory Hill), which is approximately 3.3km from Cammeray. The records indicate that the highest rainfall recorded for the month of September was 178.6mm (date of fieldwork).</td></tr>
<tr><td>Nearest Active Service Station and Dry Cleaner
(Google Maps Search)</td><td colspan="6">Service station is 482m north of the site.
Dry Cleaners is 382m north of the site.</td></tr>
</table>

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6.0 REVIEW OF CONSTRUCTION AND SERVICE INFORMATION

6.1 Proposed Development

The proposed development includes the construction of a new seniors housing development and comprises the following works:

- Site preparation works including demolition of three (3) existing residential flat buildings and associated parking facilities as well as bulk excavation.
- Construction of two (2), five (5) and six (6) storey buildings, Building A and B respectively, comprising the following:
  - Building A:
    - 7 x 2-bedroom ILUs.
    - 11 x 3-bedroom ILUs; and
    - Internal communal space for use by residents.
  - Building B:
    - 11 x 2-bedroom ILUs.
    - 20 x 3-bedroom ILUs.
    - Two (2) residential care facility beds and residential care hub; and
    - Internal communal facilities for use by all residents comprising a cinema, private dining room, gymnasium and pool.
- Communal open space and associated landscaping.
- Construction of two (2) basement levels to facilitate car parking accessible via Rosalind Street.
- Ground Level neighbourhood shop located in Building A.
- Extension and augmentation of utility infrastructure as required.

Refer to **Appendix E** - Proposed Development Plans.

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7.0 SITE VISIT

7.1 General

The site was visited on the 22nd to 24th September 2025 by Foundation Earth Sciences Environmental Scientists to inspect the site for any potential sources of contamination.

The following items were considered as part of the site visit:

- Description of the building structures.
- Site surroundings.
- Present and past industrial processes and operations at the site.
- Surface water, groundwater, stormwater and sewer.
- Present and past storage of chemicals and wastes associated with site use and their on-site location.
- Waste management practices and management of hazardous materials.
- Presence of Underground Storage Tanks or Above Ground Storage Tanks.
- Odour; and
- Occupational health and safety.

7.2 Site observations

At the time of the site visit the following observations were made as per the following table:

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Table 6: Site Inspection Review

Factors Considered	Description of Sites
Buildings & Structures on Site	The site appeared to be occupied by three separate residential lots. Each property had a residential apartment building on it, with a sealed driveway along the eastern boundary connecting the properties, carparking spaces under the dwellings and landscaped areas.
Percentage Hard-standing surface	80-85%
Hard standing surface condition	Average
Chemical Storage	No chemical storage areas were noted at the time of the site inspection in accessible areas.
Above and Underground Storage Tanks	No above or underground storage tanks areas were noted at the time of the site inspection in accessible areas.
Trade Waste Pits	No trade waste pits were identified at the site.
Nearby Electrical Transformers	There were no electrical transformers noted near the site.
Asbestos	Fibro cement sheeting was not identified within the buildings during the inspection.
Site Vegetation	Appeared healthy.
Soil Staining and Odours	No odours were identified within the property. No significant soil staining was noted during the inspection.
Stormwater and Sewer	Stormwater and sewer were connected to the local utilities.

Refer to **Figure 2** - Site Features, Boreholes & Exceedance Plan and **Appendix C** – Site Photographs.

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8.0 PRELIMINARY CONCEPTUAL SITE MODEL (CSM)

Based on the above information, site history and site walkover, the areas of potential concern and associated contaminants for the site CSM were identified. These are summarised in the following table.

Table 7: Areas and Contaminants of Concern

Known and potential contamination source	Associated Contaminants
Historical Site Uses (Residential, Vacant)	Heavy Metals, TRH, BTEX, PAH, OCP, PCB & Asbestos
Surrounding Land Use (Residential, Recreational, School)	Heavy Metals, TRH, BTEX, PAH, OCP, PCB & Asbestos
Potential Pesticides Use	OCP, OPP
Imported Fill / Land Filling Materials	Heavy Metals, TRH, BTEX, PAH, OCP, PCB & Asbestos
Car parking Areas	TRH, BTEX, PAH
Building degradation/ Demolition	Heavy Metals and Asbestos

Table 8: Potentially Contaminated Media

Known and potential contamination source	Associated Contaminants
Fill Material	There is the potential for contamination to be present in the upper fill material.
Groundwater	There is the potential for the leaching of contaminants into groundwater onsite and also migration of the contaminants.

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Potential Chemicals of Concern

During this investigation, it was identified that asbestos was a potential chemical of concern.

Potential for Migration

Contaminants generally migrate from site via a combination of windblown dusts, rainwater infiltration, groundwater migration and surface water runoff. The potential for contaminants to migrate is a combination of:

- The nature of the contaminants (solid/liquid and mobility characteristics);
- The extent of the contaminants (isolated or widespread);
- The location of the contaminants (surface soils or at depth); and
- The site topography, geology, hydrology and hydrogeology.

The potential contaminants identified as part of the site history review & site inspection are present in solid (e.g. impacted fill, asbestos) & liquid (e.g. dissolved in water).

Aerial photography has indicated that there were unsealed ground surfaces and therefore, there is the potential for migration of contaminants via wind-blown dust.

Rainfall infiltration at the site is expected to occur in unsealed areas. There is therefore the potential that soil contamination could result in impacts to groundwater.

Potential Exposure Pathways

Potential exposure pathways include:

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- Dermal;
- Ingestion; and
- Inhalation.

Due to the presence of exposed potentially impacted soil/fill on ground surfaces, dermal and inhalation exposure is considered a potential exposure pathway.

The potential for ingestion of soil is considered as a potential exposure pathway. Although groundwater is not used at the site, there is the potential, for ingestion of contaminants.

A basement is proposed for the development. Because of this dermal and inhalation exposure pathway by potentially contaminated groundwater is considered a risk potential.

Receptors

Potential receptors of environmental impact present within the site which will be required to be addressed with respect to the suitability of the site for the proposed use include:

- Excavation/construction/maintenance workers conducting activities at the site, who may potentially be exposed to COPCs through direct contact with impacted soils, Vapour Intrusion and/or groundwater present within excavations and/or inhalation of dusts/fibres associated with impacted soils;
- Future occupants/users of the site may potentially be exposed to COPCs through direct contact with impacted soils and/or ingestion of impacted soils and/or inhalation of dusts/fibres associated with impacted soils and/or exposure to vapour; and/or

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- Offsite sensitive receptors of groundwater; and/or
- Flora species to be established on vegetated areas of the site.
- Willoughby Creek.

Preferential Pathways

For the purpose of this assessment, preferential pathways have been identified as natural and/or man-made pathways that result in the preferential migration of COPCs as either liquids or gases.

Man-made preferential pathways are present throughout the site, generally associated with fill materials and services present beneath existing ground surface. Fill materials and service lines are anticipated to have a higher permeability than the underlying natural soil and/or bedrock.

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9.0 REVIEW OF DATA QUALITY OBJECTIVES

The DQOs were also prepared using Appendix IV of the Site Auditor Guidelines. These require 7 steps. The steps being:

a. State the problem
b. Identify the decisions
c. Identify inputs to decision
d. Define the study boundaries
e. Develop a decision rule
f. Specify limits on decision errors
g. Optimise the design for obtaining data

Table 9: DQI's for the Investigation

DQO's		Considerations
1	**State the problem** – assemble an effective planning team, describe the problem and examine the resources for investigating the problem	
1.1	Write a brief summary of the contamination problem.	A rectangular shaped area of land of approximately 4,093m^2 requires characterisation to determine the land use suitability or the appropriate waste classification.
1.2	Identify members of the planning team.	Landowner/developer, planning consultant and site contamination assessment consultant.
1.3	Develop/refine the conceptual site model (CSM), including a summary of the exposure scenarios.	Contaminants – potentially heavy metals, organics (TRHs, BTEX, PAHs and OCPs/OPPs), and asbestos (fibres/fragments). Sources – buried building and demolition wastes, previous agricultural practices on the site.

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		Receptors – site maintenance workers and trespassers, as the site is fenced and secured. If developed, site workers (surface and sub-surface), residents and visitors (adults and children). Pathways – dermal contact, inhalation of dust and ingestion have been identified as the pathways of concern. Further assessment of groundwater and/or soil gas will be considered based on the findings of this investigation.
1.4	Specify the available resources and constraints, such as relevant deadlines for the study, budget, availability of personnel and schedule.	The site contamination assessment consultant has the available capacity to conduct the investigation using appropriate subcontractors (drill rig and laboratory). While the developer seeks close out of the issue within the next three months, there are no practical constraints, as the land is identified as high-value and sufficient budget is available. Additional investigations, or remediation will be conducted as required.
2	**Identify the goals of the study** – identify the principal study question(s) and potential alternative actions (with implications) and combine these to make statements of the decision problem.	
2.1	Identify the principal study question(s).	Is the material suitable for a residential land use based on contaminant levels and aesthetic concerns? If not, what disposal options are available, i.e. what is the waste classification?
2.2	Identify the alternative outcomes or actions that could result from resolution of the principal study question(s).	The alternative outcomes will be: • The material is suitable for residential land use (HIL-B), or • The material is not suitable for the proposed land use and needs to be partially or fully removed from the site to allow for development.
2.3	For decision problems, combine the principal study questions and the	If the contamination status of the material is acceptable, the material can remain on-site.

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	alternative actions into decision statements.	If the contamination status of the material is unacceptable, consider the remediation hierarchy.
3	**Identify information inputs** – identify the information needed to formulate and investigate the problem and confirm that appropriate sampling and analytical methods are available.	
3.1	Identify the information that will be required to resolve the decision statements/estimation, including existing information and new environmental data, and identify the sources for each item of information required.	Soil and groundwater data collected as part of this investigation, including field samples and analytical samples.
3.2	Identify the information needed to establish the action level.	Investigation criteria will be sourced from: • NEPM 2013, Schedule B1, HILs for residential B, includes premises such as shops, offices, factories and industrial sites; and • NSW EPA 2014c, Waste Classification Guidelines
3.3	Confirm that appropriate sampling and analytical methods exist to provide the necessary data.	Sampling and analytical methods will be consistent with existing guidance, including NEPM 2013, B2 and B3. Analytical laboratories will be NATA accredited and/or subject to proficiency testing and use analytical methods based on NEPM, USEPA and APHA methods.
4	**Define the boundaries of the study** – define the target population and the spatial and temporal boundaries associated with the population; examine any practical constraints to collecting data, and factors that affect the selection of the unit that defines the scale of sampling and the scale of decision making or estimation.	
4.1	Define the target population of interest and its relevant spatial boundaries.	The area is approximately 4,093m^2. Uncontaminated soils in site investigations were found to be homogenous in regard to metal concentrations, i.e. expected relative standard deviation (RSD) <50%.

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4.2	Define what constitutes a sampling unit.	Sampling units will consist of: • Field samples of appropriately described and logged samples which are field screened • Analytical samples of the laboratory-specified sample jar quantity.
4.3	Specify temporal boundaries and other practical constraints associated with sample/data collection.	To achieve the three-month schedule for problem resolution, the field investigation should start within two weeks of the investigation plan (SAQP and commercial) being accepted. There are no site access restrictions for personnel once they are inducted and project approved. The decision area is open with some road base portions, areas of light grass covering and directly accessible without obstructions.
4.4	Specify the smallest unit on which decisions or estimates will be made.	The decision is to be based on the complete decision area. However, following data analysis, some form of segregation may be considered, i.e. some of the decision area may be suitable for HIL-B and some may require offsite disposal.
5	**Develop the analytic (statistical) approach** – develop a logical 'if…, then… or…' statement that defines the conditions that would cause the decision maker to choose among alternative actions.	
5.1	Specify the statistical parameter that characterises the population of interest, such as mean, median, maximum, 95% upper confidence limit (UCL) of the arithmetic mean or proportion.	The 95% UCL of the arithmetic mean will be the key statistical parameter. The data evaluation will include: • The 95% UCL arithmetic mean to be ≤ criterion • No individual sample to exceed 250% of the criterion • The sample standard deviation to be ≤50% criterion. Additional considerations will include aesthetic requirements, including no odours or staining, no waste materials and no monolithic deposits as per NEPM 2013, B2.
5.2	Specify the action level for the decision.	To determine if the material is suitable for the HIL-B land use, analytical action levels are to be based on the NEPM HILs (2013, B1).

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		If the material is not suitable for the HIL-B land use, the material will be classified in accordance with EPA 2014c for offsite disposal. Samples will be held at the laboratory for additional analyses, including leachate analysis following TCLP extraction, if required.
5.3	Confirm that measurement detection will allow reliable comparisons with the action level.	Samples will be submitted to NATA-accredited laboratories. The laboratories' analytical LORs are suitably below the adopted criteria. Note: to achieve an acceptable limit of reporting for asbestos fines and fibrous asbestos, the method may not be NATA-accredited but undertaken using in-house methods for quantification.
5.4	Combine the outputs from the previous DQOs steps and develop an 'if…, then…, else…' theoretical decision rule based on the chosen action level.	**If** the statical parameters (or aesthetics) of the sampling data exceed the applicable action levels, **then** offsite disposal of the fill material will be required, **otherwise, if** the statistical (and aesthetic) parameters are below the applicable action levels, **then** the fill material will be determined to be suitable for a HIL-B land use.
6	**Specify performance or acceptance criteria** – specify probability limits for false rejection and false acceptance decision errors.	
6.1	Specify the decision rule as a statistical hypothesis test.	The null hypothesis is that the material is contaminated and exceeds the adopted criteria. The alternative hypothesis is that the material is not contaminated above the adopted criteria.
6.2	Examine consequences of making incorrect decisions from the test.	Possible decision errors include: • The material being accepted as suitable for a HIL-B land use when it is not, thereby potentially risking human health or environmental impacts • Unnecessary disposal of the material offsite, imposing needless financial and resource burdens on

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		the development project and resulting in an inappropriate waste classification.
6.3	Place acceptable limits on the likelihood of making decision errors, including acceptable alpha (α) and beta (β) risk levels.	Stated hypotheses: • Null hypothesis (H0): the 95% UCL, and other requirements, are > the action level • Alternate hypothesis (HA): the 95% UCL, and other requirements, are ≤ the action level. Potential outcomes include Type I and Type II errors: ○ Type I error of determining the material is acceptable for the proposed HIL-B land use when it is not (wrongly rejects true H0). ○ Type II error of determining the material is unacceptable for the proposed HIL-B land use when it is acceptable (wrongly accepts false H0). For performance criteria, the acceptable limits on the likelihood of making decision errors to be applied are: ▪ Alpha risk (Type I error) of α = 0.05 ▪ Beta risk (Type II error) of β = 0.2 The above acceptance criteria are required.
7	**Optimise the design for obtaining data** – identify a resource-effective sampling and analysis design for generating data that is expected to satisfy the DQOs.	
7.1	Document the final sampling and analysis design, along with a discussion of the key assumptions underlying this design.	To allow statistical inference, a probabilistic strategy is to be adopted. As the proposed development is based on residential apartment building (for senior housing) within an area of 4,093m^2, 13 sample locations were selected so the density equates to one sample location per 314.85m^2. Using a stratified sampling using a medium density systematic sampling strategy.

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		Boreholes will be excavated at each location to the underlying natural material as identified by the remnant A-horizon, at a approx. depth of 0-1.1m. Up to two field samples will be collected at each sample location, at the surface (a depth of 0.0-0.5m) and an approximate depth of half the total test pit depth, so there will be up to maximum 26 field samples – actual no of field samples collected equalled sixteen. Based on the size of the decision area, this sampling design results in: • One sample location per 314.85m^2 – using grid size of 19m. This design is theoretically capable of detecting a minimum hotspot diameter of 22.5m. The results from the first sixteen samples will be considered, and a decision on whether to utilise the remaining samples held at the laboratory will then be made. For instance, the 95% UCL should be calculated and compared with the assessment criteria. If the calculation indicates that the 95% UCL is above a criterion/criterion, a calculation can be performed to determine how may samples are required to determine the 95% UCL is below the criterion/criteria.
7.2	Detail how the design should be implemented, together with contingency plans for unexpected events.	The field methods for sample collection, handling, and analysis (at analytical laboratories) are described in the project-level standard operating procedures (SOPs). Contingencies include collecting additional samples from material that is significantly difference from the reworked natural material, and conducting additional analyses where

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		field indicators (staining, odours, field screening results) suggest other contaminants.
7.3	Determine the quality assurance and quality control (QA/QC) procedures that are to be performed to detect and correct problems to ensure defensible results.	The required field QA, and the field and laboratory QC, are described in the project-level SOPs. These include both the data quality indicators (DQIs) and the associated measurement quality objectives (MQOs).
7.4	Document the operational details and theoretical assumptions of the selected design in the SAQP.	Theoretical assumptions include: • Surficial impacts from overland flow from the adjacent facility and burial of wastes are the modes of contamination expected • The material is relatively homogenous • The remnant A-horizon will be readily discernible from buried grass and organic soil.

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10.0 INTRUSIVE SOIL INVESTIGATION

The intrusive soil investigation took place on the 22nd to 24th of September 2025 and was designed to meet the Data Quality Objectives.

10.1 Soil Assessment

FES staff collected sixteen (16) primary soil samples from thirteen (13) boreholes spread across the site and were labelled BH1 to BH13. These locations were selected to detect any contamination that may have originated from past and present activities, and due to potential excavation and future development in these areas.

Table 10: Sampling Information - Soil

Analyte / Analyte Group / Sample	Depth (m)	SAMPLING DATE	HEAVY METALS (8)	TRH	BTEX	PAH	OCP//PCB	OPP	TRH C6-C10 & BTEXN	PH / CEC / %CLAY	Asbestos ID
FES DSI 2025											
BH1	0.3-0.4	23/09/25	X	X	X	X	X	X			X
BH2	0.4-0.5	23/09/25	X	X	X	X	X				X
BH3	1-1.1	24/09/25	X	X	X	X	X				X
BH4	0.1-0.2	22/09/25	X	X	X	X	X				X
BH5	0.2-0.3	24/09/25	X	X	X	X	X				X
BH6	0.1-0.2	23/09/25	X	X	X	X	X			X	X
BH6	0.5-0.6	23/09/25	X	X	X	X	X			X	
BH7	0.2-0.3	23/09/25	X	X	X	X	X	X			X
BH8	0.2-0.3	23/09/25	X	X	X	X	X				X
BH8	0.5-0.6	23/09/25	X	X	X	X	X				X
BH9	0.1-0.2	24/09/25	X	X	X	X	X				X
BH10	0.3-0.4	24/09/25	X	X	X	X	X				X
BH11	0.1-0.2	24/09/25	X	X	X	X	X				X
BH12	0.0-0.1	24/09/25	X	X	X	X	X	X			X
BH12	0.4-0.5	24/09/25	X	X	X	X	X				X
BH13	0.1-0.2	24/09/25	X	X	X	X	X				X
D1	-	23/09/25	X	X	X	X	X				
SS1	-	23/09/25	X	X	X	X	X				
TS/TB1	-	22/09/25							X		

The locations of the boreholes and samples are shown in **Figure 2** and details of the logs are presented in **Appendix G** – Borehole Logs.

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Based on information from all boreholes, the surface and sub-surface profile across the site is generalised as follows:

- Fill: Silty Clay, Sandy Clay, Clayey Sand, Silty, Sandy Clay, Clayey Gravel & Gravelly Clay
- Natural: Silty CLAY
- Bedrock: SANDSTONE.

10.2 Sampling Density and Rationale

The NSW EPA "Sampling Design Guidelines" Part 1 and Part 2 (2022) requires a minimum sampling density of thirteen (13) sampling points for a site approximately area of 4,093m^2.

FES staff collected sixteen (16) primary soil samples recovered from thirteen (13) boreholes spread across the site and were labelled BH1 to BH13. The locations were selected by adopting a systematic grid-based sampling pattern across the site and to provide general site coverage with consideration given to accessibility and limitations in relation to underground services & access.

10.3 Sampling Methodology

In summary:

- Soil samples were collected directly from the push tube / split spoon sampler and/or directly from the excavator bucket.
- Soil samples were collected using a hand auger, DCP and U50 to collect undisturbed samples.
- Samples were recovered directly from the excavator bucket.

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- Samples were transferred directly into appropriately labelled clean laboratory supplied containers;
- Samples were transferred into chilled eskies for sample preservation;
- A Chain of Custody was completed and forwarded to the laboratory. Sampling analysis was based on field observations and were in accordance to the schedule outlined in Section 12.
- Soil samples were submitted to their respective laboratories as specified in Section 12.4.

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11.0 GROUNDWATER INVESTIGATION

11.1 Groundwater Assessment

Elite Geosciences installed three monitoring wells as part of the Geotechnical Investigation completed in September. Foundation Earth Sciences utilised the monitoring wells and samples were recovered from three (3) groundwater well labelled as BH1/GW1, BH3/GW2 & BH6/GW3. The schedule of analysis is provided below:

Table 11: Sampling Information – Groundwater

SAMPLE ID	SAMPLING DATE	HEAVY METALS	TRH	BTEX	PAH	VOC	TRH C6-C10 & BTEXN
FES DSI 2025							
BH1 / GW1	03.10.25	X	X	X	X	X	
BH3 / GW2	03.10.25	X	X	X	X	X	
BH6 / GW3	03.10.25	X	X	X	X	X	
D1	03.10.25	X	X	X	X	X	
SS1	03.10.25	X	X	X	X	X	
TS1 / TB1	03.10.25						X

The location of the groundwater well is shown in **Figure 2** – Site Features, Borehole Locations and Exceedance Plan and details of the boreholes are presented in **Appendix G** – Borehole Logs.

11.2 Groundwater Methodology

The groundwater monitoring well was constructed on the 22nd to 24th September 2025 by adopting the following methodology:

- 50mm diameter, Class 18PVC 0.45 machine-slotted screen was used.

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- Coarse, washed sand and gravel was placed in the annulus surrounding the piping to a height of the screen.
- Bentonite pellets were placed in the annulus to form an impermeable plug near the top of the well to prevent surface runoff from entering directly into the well.
- Bentonite pellets were placed in the annulus to form an impermeable plug near the top encountered bedrock.
- A PVC cap was placed on the casing.
- 100m diameter stainless steel flushed covers were used for all well finishes and concreted onto the ground surface.

Table 12: Summary of Well Construction Details

Well ID	Total Depth	Screening (m)	Surface Level (RL)	Water Bearing	Comment
BH1 / GW1	14.74	8.74-14.74	84.34	-	Elite – Well
BH3 / GW2	10.0	5-10	86.67	-	Elite – Well
BH6 / GW3	10.0	4-10	86.76	`	Elite – Well

Notes:
1. RLs was taken from the closest point on the survey plan provided in Appendix F.

The following works were carried out upon completion of the well installations:

- The wells were developed by removing at least three well volumes until groundwater parameters reached equilibrium and no further turbidity improvements were observed.

11.3 Groundwater Sample Collection

Groundwater sampling was undertaken on the 3rd October 2025. Prior to sampling, the resting water level was recorded within the well while checking for the presence of phase separated hydrocarbon.

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Sampling was completed using a low flow peristaltic pump – a low flow/minimum drawdown sampling technique used a minimise any disturbance to the aquifer.

Field measured parameters were collected using a certified and calibrated in-situ YSI water quality meter. Samples were collected when field measured parameters (pH, electrical conductivity, redox potential, dissolved oxygen and temperature) had stabilised. The samples were placed into appropriate laboratory supplied bottles and preserved on ice. The peri pump and other sampling equipment were decontaminated before and after use to avoid possible cross contamination. All samples collected were preserved on ice and couriered directly to the laboratory under COC documentation.

11.4 Groundwater Observations

Table 13: Groundwater Elevations & Observations

Well ID	Well Depth	Surface Level RL	Groundwater Depth Measured (m BGL)	Groundwater Level (RL)	PSH Depth
BH1 / GW1	14.74	84.34	9.24	75.1	None
BH3 / GW2	10.0	86.67	6.1	80.57	None
BH6 / GW3	10.0	86.76	4.28	82.48	None

Notes: RLs were taken from the closest point on the plan provided in Appendix F.

The field measured parameters (pH), electrical conductivity (EC), redox potential, dissolved oxygen (DO) and temperature recorded during purging, were allowed to stabilise prior sampling. Final stabilised groundwater field parameters are summarised in below.

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Table 14: Groundwater Observations

Well ID	Date	pH	Electrical Conductivity (EC us/cm)	Redox Potential (ORP mV)	Dissolved Oxygen (mg/L)	Temperature (*C)
BH1 / GW1	03.10.2025	6.53	35.2	49.1	6.3	18.9
BH3 / GW2	03.10.2025	6.51	49.9	49.8	5.45	18.5
BH6 / GW3	03.10.2025	6.62	48.2	49.7	5.68	18.4

The results of the field parameters measured are summarised as follows:

- pH reading indicated the groundwater is neutral.
- The EC reading indicated generally freshwater; and
- The redox potential indicated increasing conditions.

11.5 Catchment Location

It is noted that the groundwater at the site is likely to flow into the Sydney Harbour and Parramatta River Catchment Area. This catchment is partly affected by urban development. The water quality objectives for the catchment includes, but not limited, are as follows:

- Maintaining or improving the ecological conditions of waterbodies and their riparian zones over the long term.
    - Some indicators include total phosphorous, total nitrogen, chlorophyll-a, turbidity, salinity, dissolved oxygen, pH, temperature, chemical toxicants, biological assessment.
- Visual amenity.
    - The objective applies to all waters, particularly those used for aquatic recreation and where scenic qualities are important.
    - Some indicators include visual clarity and colour, surface films / debris, nuisance organisms.

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- Secondary contact recreation (boating / fishing).
    - Objectives is based on maintaining / improving water quality for activities such as boating and wading, where there is a low probability of water being swallowed.
    - Some indicators include faecal coliforms, enterococci, algae, chemical contaminants, surface film, visual clarity / odour & nuisance organisms.
- Primary contact recreation (swimming which is a longer-term objective).
    - Objectives is based on maintaining / improving water quality for activities such as swimming in which there is a high probability of water being swallowed.
    - Some indicators include turbidity, faecal coliforms, enterococci, protozoans, algae, pH, temperature, chemical contaminants, surface film, visual clarity / odour & nuisance organisms.

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12.0 QUALITY ASSURANCE / QUALITY CONTROL

12.1 General QA/QC

The frequency required for each field quality assurance / quality control (QA/QC) sample is presented in the table below.

Table 15: QA/QCs Frequencies

	Intra Lab	Inter Lab	Rinsate	Spikes	Blanks
Sampling Frequency	1 in 20	1 in 20	1/day	1/day	1/day

During the contamination assessment the integrity of data collected is considered vital. With the assessment of the site, a number of measures were taken to ensure the quality of the data. These are as follows:

12.2 Sample Containers

Soil samples collected during the investigation were placed immediately into laboratory prepared glass jars with Teflon lid inserts. Standard identification labels were adhered to each individual container and labelled according to depth, date, sampling team and media collected.

12.3 Decontamination

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All equipment used in the sampling program was decontaminated prior to use and between samples to prevent cross contamination. Decontamination of equipment involved the following procedures:

- Cleaning equipment in potable water to remove gross contamination;
- Cleaning in a solution of Decon 90;
- Rinsing in clean demineralised water then wiping with clean lint free cloths;

Foundation Earth Sciences also adopted a sampling gradient of lowest to highest potential contamination to minimise the impact of cross contamination. This gradient was determined from the historical review and the on-site inspection that was carried out prior to sampling.

Although Foundation Earth Sciences maintains consistent sampling procedures, a rinsate sample is obtained to ensure false positive samples are not generated and that decontamination procedures are effective in preventing cross contamination. The Rinsate water is collected after being in contact generally with the trowel used for sampling. Analytical results that target the contaminants of concern are compared to a blank sample, which is taken directly from the rinsate water container supplied by the laboratory.

A rinsate sample was not collected as the samples were taken either directly from the excavator bucket, push tube / split spoon sampler or U50 tube and therefore the chance for cross-contamination was minimal.

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12.4 Sample Tracking, Identification and Holding Times

All samples were forwarded to Envirolab and SGS Australia under recognised chain of custodies with clear identification outlining the date, location, sampler and sample ID. All samples were recorded by the laboratory as meeting their respective holding times. The sample tracking system is considered adequate for the purposes of sample collection.

12.5 Sample Transport

All samples were packed into an esky with ice from the time of collection. A trip blank and trip spike are collected where appropriate. These were transported under chain of custody from the site to Envirolab Pty Ltd and SGS Australia, both NATA registered laboratories. During the project, the laboratory reported that all the samples arrived intact and were analysed within holding times for the respective analytes.

Samples were kept below 4°C at all times, soil samples submitted for asbestos analysis are not required to be kept below 4°C.

12.6 Trip Spike

Trip Spike samples were obtained from the laboratory prior to conducting field sampling where volatile substances are suspected. Foundation Earth Sciences QA/QC procedures for the collection of environmental samples involves the collection of trip blanks, trip spikes and duplicate samples both intra and inter laboratory.

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12.7 Trip Blank

A trip blank accompanied the sampling for the sampling process and is not separated from the sample collection and transportation process. The purpose of the trip blank is to identify whether cross-contamination is occurring during the sample collection and transport process.

12.8 Field Duplicate Samples

The tables below list the duplicate soil samples collected with their corresponding primary samples.

Table 16: Soil Field Duplicate Samples

Primary Sample	Sample Depth (m BGL)	Intra Duplicate	Inter Duplicate	Date Sampled
BH7	0.2-0.3	D1	SS1	24.09.2025

Table 17: Soil Field Duplicate Samples

Primary Sample	Screen Zone (m BGL)	Intra Duplicate	Inter Duplicate	Date Sampled
BH3 / GW2	5-10	D1	SS1	03.10.2025

Field duplicate samples for soil were prepared in the field through the following process:

- A larger than normal quantity of soil is recovered from the sample location selected for duplication.

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- Two Portions of the sub-sample are immediately transferred, one for an intra-laboratory duplicate and another as a sample.
- Samples are placed into a labelled, laboratory supplied 250ml glass jar and sealed with an airtight, Teflon screw top lid. The fully filled jars are labelled as the sample and duplicate and immediately placed in a chilled esky.

Soil Intra-Laboratory duplicate samples were sent to SGS Laboratory while Inter-Laboratory duplicate samples were sent to Envirolab.

A summary of the test results with the Relative Percentage Difference (RPD) is presented in the following tables.

The comparisons between the duplicates and original samples indicate acceptable RPDs when they comply with criteria which are commonly set at:

- less than 30% for inorganics and 50% for organics
- greater than five (5) times the laboratory limit of recording (LOR)
- greater than 50% of the relevant health investigation level (HIL) concentration.

The tables, below, give details of intra laboratory and inter laboratory duplicates.

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Table 18: Intra-lab Soil Sample D1 RPDs

ANALYTE	TP7 0.2-0.3 mg/kg	SGS D1 mg/kg	RELATIVE PERCENTAGE DIFFERENCE %
HEAVY METALS			
Arsenic	4	4	0
Cadmium	<0.3	<0.3	-
Chromium	2.6	2.6	0
Copper	3.7	4	8
Lead	28	26	7
Mercury	0.06	0.06	0
Nickel	1.4	1.5	7
Zinc	32	25	25
TRH			
F1	<25	<25	-
F2	<25	<25	-
BTEX			
Benzene	<0.1	<0.1	-
Toulene	<0.1	<0.1	-
Ethylbenzene	<0.1	<0.1	-
Xylenes - Total	<0.3	<0.3	-
POLYCYCLIC HYDROCARBONS (PAH)			
Benzo(a)pyrene	0.2	<0.1	-
Total PAH	1.3	<0.8	-
ORGANOCHLORINE PESTICIDES			
Heptachlor	<0.1	<0.1	-
Aldrin	<0.1	<0.1	-
Dieldrin	<0.1	<0.1	-
DDD	<0.1	<0.1	-
DDE	<0.1	<0.1	-
DDT	<0.1	<0.1	-
Chlordane (trans & cis)	<0.1	<0.1	-
POLYCHLORINATED BIPHENYLS			
Total PCB	<0.1	<0.1	-

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Table 19: Intra-lab GW Sample RPDs

ANALYTE	SGS BH3 / GW2 ug/l	SGS D1 ug/l	RELATIVE PERCENTAGE DIFFERENCE %
HEAVY METALS			
Arsenic	<1	<1	-
Cadmium	<0.1	<0.1	-
Chromium	2	1	67
Copper	<1	<1	-
Lead	<1	<1	-
Mercury	<0.0001	<0.0001	-
Nickel	9	14	43
Zinc	23	24	4
TRH			
C6-C10 (F1)	<50	<50	-
C10-C16 (F2)	<60	<60	-
BTEX			
Benzene	<0.5	<0.5	-
Toulene	<0.5	<0.5	-
Ethylbenzene	<0.5	<0.5	-
Xylenes - Total	<1.5	<1.5	-
POLYCYCLIC HYDROCARBONS (PAH)			
Benzo(a)pyrene	-	-	-
Naphthalene	-	-	-
VOC			
Vinyl Chloride	<0.3	<0.3	-
Chloroform	4.7	4.8	2

The comparisons between the intra-laboratory duplicates and corresponding original samples for soil and groundwater indicated generally acceptable RPDs apart from Chromium in groundwater sample GW2, as shown in the above tables. The DQOs were exceeded for this project, however, these exceedances are not considered significant because they are most likely due to the heterogeneity of the sample or low concentrations within the sample.

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Table 20: Inter-lab Soil Sample SS1 RPDs

ANALYTE	TP7 0.2-0.3 mg/kg	Envirolab SS1 mg/kg	RELATIVE PERCENTAGE DIFFERENCE %
HEAVY METALS			
Arsenic	4	4	0
Cadmium	<0.3	<0.4	-
Chromium	2.6	3	14
Copper	3.7	4	8
Lead	28	27	4
Mercury	0.06	<0.1	-
Nickel	1.4	2	35
Zinc	32	27	17
TRH			
F1	<25	<25	-
F2	<25	<50	-
BTEX			
Benzene	<0.1	<0.2	-
Toulene	<0.1	<0.5	-
Ethylbenzene	<0.1	<1	-
Xylenes - Total	<0.3	<1	-
POLYCYCLIC HYDROCARBONS (PAH)			
Benzo(a)pyrene	0.2	0.2	0
Total PAH	1.3	1.2	8
ORGANOCHLORINE PESTICIDES			
Heptachlor	<0.1	<0.1	-
Aldrin	<0.1	<0.1	-
Dieldrin	<0.1	<0.1	-
DDD	<0.1	<0.1	-
DDE	<0.1	<0.1	-
DDT	<0.1	<0.1	-
Chlordane (trans & cis)	<0.1	<0.1	-
POLYCHLORINATED BIPHENYLS			
Total PCB	<0.1	<0.1	-

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Table 21: Inter-lab GW Sample RPDs

ANALYTE	SGS BH3 / GW2 ug/l	ENVIROLAB SS1 ug/l	RELATIVE PERCENTAGE DIFFERENCE %
HEAVY METALS			
Arsenic	<1	<1	-
Cadmium	<0.1	<0.1	-
Chromium	2	<1	-
Copper	<1	<1	-
Lead	<1	<1	-
Mercury	<0.0001	<0.05	-
Nickel	9	9	0
Zinc	23	24	4
TRH			
C6-C10 (F1)	<50	<10	-
C10-C16 (F2)	<60	<50	-
BTEX			
Benzene	<0.5	<1	-
Toulene	<0.5	<1	-
Ethylbenzene	<0.5	<1	-
Xylenes - Total	<1.5	<3	-
POLYCYCLIC HYDROCARBONS (PAH)			
Benzo(a)pyrene	-	<0.1	-
Naphthalene	-	<0.1	-
VOC			
Vinyl Chloride	<0.3	<10	-
Chloroform	4.7	4	-

The comparisons between the inter-laboratory duplicates and corresponding original samples for soil and groundwater indicated generally acceptable RPDs.

Field duplicates provide an indication of the whole investigation process, including the sampling process, sample preparation and analysis. The accuracy of the data is adequate due to the effect on confidence intervals with low concentrations in the samples and their duplicates.

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12.9 Trip Spike and Trip Blank Results

Trip Spike samples were obtained from the laboratory prior to conducting field sampling where volatile substances are suspected. Trip spike and trip blank samples were collected to assess the effect of sample handling on volatile concentrations in the samples collected and the results are listed in the tables below:

Table 22: Trip Spike

ANALYTE	TS Trip Spike % Soil (mg/kg) 22.09.2025
BTEX	
Benzene	82%
Toluene	84%
Ethyl Benzene	85%
O-Xylenes	85%
M & P Xylenes	85%

ANALYTE	TS Trip Spike % water (ug/L) 03.10.2025
BTEX	
Benzene	100%
Toluene	99%
Ethyl Benzene	99%
O-Xylenes	100%
M & P Xylenes	99%

Table 23: Trip Blank

ANALYTE	Trip Blank Soil (TB) mg/kg 22.09.2025
TRH	
C6-C10	<25
BTEX	
Naphthalene	<0.1
Benzene	<0.1
Toluene	<0.1
Ethyl Benzene	<0.1
Total Xylenes	<0.3

ANALYTE	Trip Blank water (TB) ug/L 03.10.2025
TRH	
C6-C10	-
BTEX	
Naphthalene	<0.5
Benzene	<0.5
Toluene	<0.5
Ethyl Benzene	<0.5
Total Xylenes	<1.5

Results discussed in Section 12.11

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12.10 Laboratory QA/QC

The integrity of analytical data provides the second step in the QA/QC process for total data compliance. The data validation techniques adopted by Foundation Earth Sciences are based upon techniques published by the US EPA and in line with methods and guidelines adopted by the NSW EPA and outlined in the NEPM, 2013.

Descriptions are provided of the specific mechanisms used in the assessment of accuracy, precision and useability of analytical data within the project.

Refer to **Appendix H**- NATA Accredited Laboratory Certificates.

12.11 QA/QC Results

The QA/QC results for soil collected at the site are summarised in the table below:

Table 24: QA/QC Results Summary

Data Quality Indicator	Results	DQI Met (Y/N)
Completeness		
Soil & GW		
Data from critical samples is considered valid	Data is considered valid	Yes
Satisfactory frequency / result for QC samples	The QC results are considered adequate for the purpose of the investigation.	Yes
Field documentation completed	Field records are complete	Yes
Boreholes logs & COCs completed and holding times complied with	Logs, COCs and holding times have been completed and complied.	Yes
Comparability		

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Soil & GW		
Standard operating procedures used	Yes	Yes
Consistent field conditions, sampling staff and laboratory analysis	Sampling was conducted by Foundation Earth Sciences scientists operating under the SOPs. The laboratories remained consistent throughout the investigation	Yes
Same analytical methods used	All analytical methods used between laboratories were based on the USEPA/APHA methods	Yes
Limit of reporting appropriate and consistent	The LORs were the same within each laboratory but differed between the primary and secondary laboratories. The LORs were considered appropriate based on the results.	Yes
Representativeness		
Soil & GW		
Sampling appropriate for media and analytes	All sampling was conducted in accordance with Foundation Earth Sciences SOPs.	Yes
Samples adequately preserved	The majority of samples collected were received by laboratories at the correct temperature. Where relevant, samples were stored in acid-preserved containers supplied by laboratories.	Yes
Precision		
Soil & GW		
SOPs appropriate and complied with in relation to field duplicates	The recovery of field duplicates was conducted in accordance with Foundation Earth Sciences SOPs as to allow for the assessment of field precision.	Yes
RPDs of the field duplicates within control limits	RPDs of the field duplicates were within control limits with the exception of some heavy metals in groundwater samples	Partial

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	which exceeded the DQOs for this project, however, these exceedances are not considered significant because they are most likely due to the heterogeneity of the sample or low concentrations within the sample.	
RPDs of the laboratory duplicates within control limits	RPDs of the laboratory duplicates were within control limits apart from Nickel in SGS Laboratory Certificate SE290100 where results less than 5 times LOR preclude acceptance criteria for RPD.	Partial
Accuracy		
Soil & GW		
SOPs appropriate and complied with in relation to field blanks	Yes	Yes
Rinsate Blanks, trip blanks & laboratory blanks free of contaminants	Laboratory blanks & trip blanks were free of contaminants.	Yes
Surrogate spikes within control limits	Surrogate spikes were within control limits apart from d5-nitrobenzene (surrogate) in GW1 water sample in SGS laboratory certificate SE290558, where at least 2 of 3 surrogates are within acceptance criteria.	Partial
Laboratory control spikes within control limits	Laboratory Control Spike recoveries were within control limits.	Yes
Matrix Spike recoveries within control limits	Matrix Spike recoveries were within control limits except for Lead in SGS Laboratory Certificate SE290100 where recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).	Partial

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Trip spike recoveries within control limits	Yes	Yes

12.12 QA/QC Evaluation / Conclusion

In summary, the findings of the QA/QC evaluation considered that the data is sufficiently reliable and that the results can be used for the purpose of this project.

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13.0 SITE ASSESSMENT CRITERIA

13.1 SOILS

13.1.1 Health Investigation Levels (HILs)

To assess the contamination status of soils at a site, the NSW EPA refers to the document entitled National Environmental Protection (Assessment of Site Contamination) Measure (NEPM) (Amendment 2013).

During any future soil investigations, the site will be assessed against the NEPM exposure scenario 'Residential B' Health Investigation Levels of the above-mentioned guidelines and specifically refers to the following:

HIL 'B' Residential with minimal opportunities for soil access; includes dwellings with fully and permanently paved yard space such as high-rise buildings and apartments.

The soil regulatory guidelines are presented in the table below.

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Table 25: Health Investigation Levels (HIL) Criteria for Soil Contaminants

FOUNDATION EARTH SCIENCES	Residential B	Reference
Heavy Metals		
Arsenic	500	NEPM 2013 - Table 1(A)1 HILs
Beryllium	90	NEPM 2013 - Table 1(A)1 HILs
Boron	40000	NEPM 2013 - Table 1(A)1 HILs
Cadmium	150	NEPM 2013 - Table 1(A)1 HILs
Chromium (VI)	500	NEPM 2013 - Table 1(A)1 HILs
Cobalt	600	NEPM 2013 - Table 1(A)1 HILs
Copper	30000	NEPM 2013 - Table 1(A)1 HILs
Lead	1200	NEPM 2013 - Table 1(A)1 HILs
Manganese	14000	NEPM 2013 - Table 1(A)1 HILs
Mercury (Inorganic)	120	NEPM 2013 - Table 1(A)1 HILs
Methyl Mercury	30	NEPM 2013 - Table 1(A)1 HILs
Nickel	1200	NEPM 2013 - Table 1(A)1 HILs
Selenium	1400	NEPM 2013 - Table 1(A)1 HILs
Zinc	60000	NEPM 2013 - Table 1(A)1 HILs
Cyanide (Free)	300	NEPM 2013 - Table 1(A)1 HILs
Polycyclic Aromatic Hydrocarbons (PAHs)		
Carcinogenic PAHs (as Bap TEQ)	4	NEPM 2013 - Table 1(A)1 HILs
Total PAHs	400	NEPM 2013 - Table 1(A)1 HILs
Organochlorine Pesticides		
DDT + DDE + DDD	600	NEPM 2013 - Table 1(A)1 HILs
Aldrin + Dieldrin	10	NEPM 2013 - Table 1(A)1 HILs
Chlordane	90	NEPM 2013 - Table 1(A)1 HILs
Endosulfan	400	NEPM 2013 - Table 1(A)1 HILs
Heptachlor	10	NEPM 2013 - Table 1(A)1 HILs
HCB	15	NEPM 2013 - Table 1(A)1 HILs
Phenols		
Phenols	45000	NEPM 2013 - Table 1(A)1 HILs
Pentachlorophenol	130	NEPM 2013 - Table 1(A)1 HILs
Cresols	4700	NEPM 2013 - Table 1(A)1 HILs
Polychlorinated Biphenyls (PCBs)		
PCBs	1	NEPM 2013 - Table 1(A)1 HILs
Other Pesticides		
Atrazine	470	NEPM 2013 - Table 1(A)1 HILs
Chlorpyrifos	340	NEPM 2013 - Table 1(A)1 HILs
Bifenthrin	840	NEPM 2013 - Table 1(A)1 HILs
Herbicides		
2,4,5-T	900	NEPM 2013 - Table 1(A)1 HILs
2,4-D	1600	NEPM 2013 - Table 1(A)1 HILs
MCPA	900	NEPM 2013 - Table 1(A)1 HILs
MCPB	900	NEPM 2013 - Table 1(A)1 HILs
Mecoprop	900	NEPM 2013 - Table 1(A)1 HILs
Picloram	6600	NEPM 2013 - Table 1(A)1 HILs
Other Organics		
PDBE (Br1-Br9)	2	NEPM 2013 - Table 1(A)1 HILs

Note - All values are in mg/kg

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13.1.2 Health Screening Levels (HSLs)

The HSLs are applicable to generic land uses such as residential, commercial/industrial or recreational/public open space and different soil types between the ground surface and soils >4 metres below ground level. The HILs have been applied to assess human health risks via the inhalation and direct contact pathways of exposure. For selection of the health screening criteria an assessment of the in-situ soil profile should be undertaken. The soil profile consisted of predominantly ***Clay & Sand.***

Table 26: Health Screening Levels (HSL) Criteria

	HSL A & HSL B	HSL A & HSL B	HSL A & HSL B	HSL A & HSL B	Soil Saturation Concentration (Csat)	Reference
	0m to <1m	1m to <2m	2m to <4m	4m+		
SAND						
Toluene	160	220	310	540	560	NEPM 2013 - Table 1(A) 3 HSLs
Ethylbenzene	55	NL	NL	NL	64	NEPM 2013 - Table 1(A) 3 HSLs
Xylenes	40	60	95	170	300	NEPM 2013 - Table 1(A) 3 HSLs
Naphthalene	3	NL	NL	NL	9	NEPM 2013 - Table 1(A) 3 HSLs
Benzene	0.5	0.5	0.5	0.5	360	NEPM 2013 - Table 1(A) 3 HSLs
F1	45	70	110	200	950	NEPM 2013 - Table 1(A) 3 HSLs
F2	110	240	440	NL	560	NEPM 2013 - Table 1(A) 3 HSLs
SILT						
Toluene	480	NL	NL	NL	640	NEPM 2013 - Table 1(A) 3 HSLs
Ethylbenzene	NL	NL	NL	NL	69	NEPM 2013 - Table 1(A) 3 HSLs
Xylenes	110	310	NL	NL	330	NEPM 2013 - Table 1(A) 3 HSLs
Naphthalene	5	NL	NL	NL	10	NEPM 2013 - Table 1(A) 3 HSLs
Benzene	0.7	1	2	3	440	NEPM 2013 - Table 1(A) 3 HSLs
F1	50	90	150	290	910	NEPM 2013 - Table 1(A) 3 HSLs
F2	280	NL	NL	NL	570	NEPM 2013 - Table 1(A) 3 HSLs
CLAY						
Toluene	480	NL	NL	NL	630	NEPM 2013 - Table 1(A) 3 HSLs
Ethylbenzene	NL	NL	NL	NL	68	NEPM 2013 - Table 1(A) 3 HSLs
Xylenes	110	310	NL	NL	330	NEPM 2013 - Table 1(A) 3 HSLs
Naphthalene	5	NL	NL	NL	10	NEPM 2013 - Table 1(A) 3 HSLs
Benzene	0.7	1	2	3	430	NEPM 2013 - Table 1(A) 3 HSLs
F1	50	90	150	290	850	NEPM 2013 - Table 1(A) 3 HSLs
F2	280	NL	NL	NL	560	NEPM 2013 - Table 1(A) 3 HSLs

Note - All values are in mg/kg

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Ecological Investigation Levels (EILs) -

The NEPM 2013 states that "Ecological investigation levels" (EILs) for the protection of terrestrial ecosystems have been derived for common contaminants in soil based on a species sensitivity distribution (SSD) model developed for Australian conditions. EILs have been derived for As, Cu, CrIII, DDT, naphthalene, Ni, Pb and Zn.

Insufficient data was available to derive ACLs for arsenic (As), DDT, lead (Pb) and naphthalene. As a result, the derived EILs are generic to all soils and are presented as total soil contaminant concentrations in Tables 1B (4) and 1B (5) within the NEPM 2013.

For the purposes of EIL derivation, a contaminant incorporated in soil for at least two years is considered to be aged for the purpose of EIL derivation. The majority of contaminated sites are likely to be affected by aged contamination. Fresh contamination is usually associated with current industrial activity and chemical spills.

The following process describes the method for calculation of site specific EILs.

A. EILs for Ni, Cr III, Cu, Zn and Pb aged contamination (>2 years)

Steps 1–4 below describe the process for deriving site-specific EILs for the above elements using Tables 1B (1) – 1B (4), which can be found at the end of the NEPM 2013.

1. Measure or analyse the soil properties relevant to the potential contaminant of concern (pH, CEC, organic carbon, clay content). Sufficient samples need to be taken for these determinations to obtain representative values for each soil type in which the contaminant occurs.

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2. Establish the sample ACL for the appropriate land use and with consideration of the soil-specific pH, clay content or CEC. The ACL for Cu may be determined by pH or CEC and the lower of the determined values should be selected for EIL calculation. Note that the ACL for Pb is taken directly from Table 1(B) 4.

3. Calculate the contaminant ABC in soil for the particular contaminant and location from a suitable reference site measurement or other appropriate method.

4. Calculate the EIL by summing the ACL and ABC:

$$EIL = ABC + ACL$$

B. EILs for As, DDT and naphthalene

EILs for aged contamination for DDT and naphthalene are not available and the adopted EIL is based on fresh contamination taken directly from Table 1B (5). The EILs for As, DDT and naphthalene are generic i.e. they are not dependent on soil type and are taken directly from Table 1B (5). Only EILs for fresh contamination are available for As, DDT and naphthalene due to the absence of suitable data for aged contaminants.

Ecological Screening Levels (ESLs) -

Ecological screening levels (ESLs) are presented based on a review of Canadian guidance for petroleum hydrocarbons in soil and application of the Australian methodology (Schedule B5b) to derive Tier 1 ESLs for BTEX, benzo(a)pyrene and F1 and F2 (Warne 2010a, 2010b).

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The Canadian Council of the Ministers of the Environment (CCME) has adopted risk-based TPH standards for human health and ecological aspects for various land uses in the *Canada-wide standard for petroleum hydrocarbons (PHC) in soil* (CCME 2008) (CWS PHC). The standards established soil values including ecologically based criteria for sites affected by TPH contamination for coarse- and fine-grained soil types.

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Table 27: Ecological Investigation Levels (EIL) and Ecological Screening Levels (ESL) Criteria

FOUNDATION EARTH SCIENCES	Contaminant Age/Soil Texture	National parks and areas of high conservation value	Urban residential and open public spaces	Commercial and industrial	Reference
Ecological Investigation Levels (EILs)					
Heavy Metals					
Arsenic	**Fresh**	20	50	80	NEPM 2013 - Table 1(B) 1-5 EILs
	Aged	40	100	160	NEPM 2013 - Table 1(B) 1-5 EILs
Chromium (III)	**Fresh**	Site Specific Calculation Required			NEPM 2013 - Table 1(B) 1-5 EILs
	Aged				NEPM 2013 - Table 1(B) 1-5 EILs
Copper	**Fresh**	Site Specific Calculation Required			NEPM 2013 - Table 1(B) 1-5 EILs
	Aged				NEPM 2013 - Table 1(B) 1-5 EILs
Lead	**Fresh**	110	270	440	NEPM 2013 - Table 1(B) 1-5 EILs
	Aged	470	1100	1800	NEPM 2013 - Table 1(B) 1-5 EILs
Nickel	**Fresh**	Site Specific Calculation Required			NEPM 2013 - Table 1(B) 1-5 EILs
	Aged				NEPM 2013 - Table 1(B) 1-5 EILs
Zinc	**Fresh**	Site Specific Calculation Required			NEPM 2013 - Table 1(B) 1-5 EILs
	Aged				NEPM 2013 - Table 1(B) 1-5 EILs
Polycyclic Aromatic Hydrocarbons (PAHs)					
Naphthalene	**Fresh**	10	170	370	NEPM 2013 - Table 1(B) 1-5 EILs
	Aged	10	170	370	NEPM 2013 - Table 1(B) 1-5 EILs
Organochlorine Pesticides					
Ecological Screening Levels (ESLs) and Management Limits					
F1 (C_6-C_{10})	**Coarse**				NEPM 2013 - Table 1(B) 6-7 EILs
	Fine	125*	180*	215*	NEPM 2013 - Table 1(B) 6-7 EILs
F1 (C_6-C_{10})	**Coarse**		700	700	NEPM 2013 - Table 1(B) 6-7 EILs
(Management Limits)	**Fine**	-	800	800	NEPM 2013 - Table 1(B) 6-7 EILs
F2 (>C_{10}-C_{16})	**Coarse**				NEPM 2013 - Table 1(B) 6-7 EILs
	Fine	25*	120*	170*	NEPM 2013 - Table 1(B) 6-7 EILs
F2 (>C_{10}-C_{16})	**Coarse**		1000	1000	NEPM 2013 - Table 1(B) 6-7 EILs
(Management Limits)	**Fine**	-	1000	1000	NEPM 2013 - Table 1(B) 6-7 EILs
F3 (>C_{16}-C_{34})	**Coarse**	-	300	1700	NEPM 2013 - Table 1(B) 6-7 EILs
	Fine	-	1300	2500	NEPM 2013 - Table 1(B) 6-7 EILs
F3 (>C_{16}-C_{34})	**Coarse**		2500	3500	NEPM 2013 - Table 1(B) 6-7 EILs
(Management Limits)	**Fine**	-	3500	5000	NEPM 2013 - Table 1(B) 6-7 EILs
F4 (>C_{34}-C_{40})	**Coarse**	-	2800	3300	NEPM 2013 - Table 1(B) 6-7 EILs
	Fine	-	5600	6600	NEPM 2013 - Table 1(B) 6-7 EILs
F4 (>C_{34}-C_{40})	**Coarse**		10000	10000	NEPM 2013 - Table 1(B) 6-7 EILs
(Management Limits)	**Fine**	-	10000	10000	NEPM 2013 - Table 1(B) 6-7 EILs
Benzene	**Coarse**	10	50	75	NEPM 2013 - Table 1(B) 6-7 EILs
	Fine	10	65	95	NEPM 2013 - Table 1(B) 6-7 EILs
Toluene	**Coarse**	10	85	135	NEPM 2013 - Table 1(B) 6-7 EILs
	Fine	65	105	135	NEPM 2013 - Table 1(B) 6-7 EILs
Ethylbenzene	**Coarse**	1.5	70	165	NEPM 2013 - Table 1(B) 6-7 EILs
	Fine	40	125	185	NEPM 2013 - Table 1(B) 6-7 EILs
Xylenes	**Coarse**	10	105	180	NEPM 2013 - Table 1(B) 6-7 EILs
	Fine	1.6	45	95	NEPM 2013 - Table 1(B) 6-7 EILs
Benzo(a)pyrene	**Coarse**	0.7	0.7	1.4	NEPM 2013 - Table 1(B) 6-7 EILs
	Fine	0.7	0.7	1.4	NEPM 2013 - Table 1(B) 6-7 EILs

Notes

1 Urban residential/public open space is broadly equivalent to the HIL-A, HIL-B and HIL-C land use scenarios in Table 1A(1) Footnote 1 and as described in Schedule B7.

2 Aged values are applicable to arsenic contamination present in soil for at least two years. For fresh contamination refer to Schedule B5c.

3 Insufficient data was available to calculate aged values for DDT and naphthalene, consequently the values for fresh contamination should be used.

4 Insufficient data was available to calculate ACLs for As, DDT and naphthalene. The EIL should be taken directly from Table 1B(5).

5 ESLs are of low reliability except where indicated by * which indicates that the ESL is of moderate reliability.

6 '-' indicates that insufficient data was available to derive a value.

7 To obtain F1, subtract the sum of BTEX concentrations from C6-C10 fraction and subtract naphthalene from >C10-C16 to obtain F2.

8 Management limits are applied after consideration of relevant ESLs and HSLs

9 Separate management limits for BTEX and naphthalene are not available hence these should not be subtracted from the relevant fractions to obtain F1 and F2.

The Urban Residential and Open Public Spaces guidelines are the adopted criteria for EIL and ESL.

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13.2 Asbestos

Health screening for asbestos in soil, which are based on scenario-specific likely exposure levels, are adopted from the WA DoH guidelines and are referred in Table 7 in Schedule B1. The following health screening levels for asbestos can be seen below:

Table 28: Health Screening Levels for Asbestos

	Health Screening Levels (w/w)			
Form of Asbestos	Residential A	**Residential B**	Recreational C	Commercial/Industrial D
Bonded ACM	0.01%	**0.04%**	0.02%	0.05%
FA and AF (Friable Asbestos)	**0.001%**			
All forms of asbestos	**No visible asbestos for surface soil**			

13.3 Aesthetic Considerations

Schedule B1 in NEPC (2013) requires the consideration of aesthetic issues arising from soils and groundwater within the site. The following assessment criteria were adopted when considering aesthetics:

- no persistently malodourous soils or extracted groundwater;
- no persistent hydrocarbon sheen on surface water;
- no staining or discolouration in soils, taking into consideration the natural state of the soil; and
- no large or frequently occurring anthropogenic materials present (to the extent practicable).

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13.4 GROUNDWATER

The NSW DECC has endorsed the use of the Groundwater Investigation Levels (GILs) given in the 1999 NEPM '*Schedule B (1) Guideline on the Investigation Levels for Soil and Groundwater'* (Amendment 2013) and the water quality trigger levels given in the ANZG (2018). These Guidelines provide criteria for:

- Aquatic ecosystems – both marine and fresh waters

The NEPM advises that 'when assessing groundwater contamination, the GILs are to be applied at the point of extraction and as response levels at the point of use, or where there is a likelihood of an adverse environmental effect at the point of discharge'.

For assessing groundwater quality, it is first necessary to assess the potential uses of groundwater downgradient of the site being assessed.

Potential uses of groundwater downgradient of the site include:

- Discharge to water bodies sustaining aquatic ecosystems particularly Fresh Water.
- Extraction of groundwater by local users.

The threshold concentrations presented in the ANZG (2018) are considered applicable for the protection of aquatic ecosystems of the receiving waters. As these guidelines apply to receiving waters, it is generally conservative to apply these to groundwater discharging to receiving waters. It is important to note that these are not threshold values at which an environmental problem is likely to occur if exceeded, rather, if the trigger values are exceeded, then further action is required which may include either further site-specific

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investigations to assess whether or not there is an actual problem or management / remedial action should be undertaken.

It is considered that ***Marine trigger*** values are applicable for investigating chemical concentrations in groundwater at the site. The nearest downgradient watercourse is Willoughby Creek located approximately 741m north-east of the site. It is understood that the NSW EPA policy is that the trigger values for the protection of 95% of aquatic ecosystems should be used as groundwater assessment criteria when considering moderately or highly disturbed receiving environments. The receiving waters for groundwater at the site are considered to be moderately disturbed ecosystems and the ANZG (2018) 95% protection values are therefore considered appropriate groundwater assessment criteria for the site.

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14.0 SOIL RESULTS

The laboratory certificates are presented in **Appendix H** – NATA Accredited Laboratory Certificates. A summary of the results together with the assessment criteria adopted are provided in **Appendix K** – Summary Tables.

14.1 HEAVY METALS

14.1.1 Heath Investigation Levels

As indicated in Table K1 all the heavy metals were below the respective LOR and/or the Health Investigation Level (HIL) for a residential development, that being the HIL 'B'.

14.1.2 Ecological Investigation Levels

The EILs for Copper, Zinc, Lead, Nickel and Chromium III were derived by adding the Ambient Background Concentration (ABC) to the Added Contaminant Limits (ACL), as per the following formula:

EIL = ABC + ACL

The ABC for the site has been determined by recovering a sample from an appropriate reference point, that being:

- BH6 (0.1-0.2m)
- BH6 (0.5-0.6m)

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The soil samples collected from BH6 were analysed for pH, CEC & %CLAY to provide the background parameters for the soil on the site.

As shown in Tables K1 all of the locations were below the site derived EILs for a residential development.

14.2 TRH, BTEX, NAPHTHALENE &/OR BENZO (A) PYRENE

14.2.1 Heath Screening Levels & Management Limits

As indicated in Tables K1, the F1 (C_6-C_{10}), F2 (>C_{10}-C_{16}), benzene, toluene, ethyl benzene, xylenes and naphthalene concentrations were below the HSL 'B' for a Clay soil profile with a source depth of "0m to <1m" & "1m to <2m", as well as a Sand soil profile with a source depth of "0m to <1m".

As shown in Tables K1, the F1 (C_6-C_{10}), F2 (>C_{10}-C_{16}), F3 (C_{16}-C_{34}), F4 (C_{34}-C_{40}), concentrations were below the Management Limits for coarse and fine-grained soil in a residential development.

14.2.2 Ecological Screening Levels

As indicated in Tables K1, the F1 (C_6-C_{10}), F2 (>C_{10}-C_{16}), F3 (C_{16}-C_{34}), F4 (C_{34}-C_{40}), benzene, toluene, ethyl benzene, xylenes and benzo(a)pyrene concentrations were below the ESLs for fine- and coarse-grained soil in a residential development except for the following:

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- Concentrations of Benzo(a)pyrene (0.7mg/kg) in location BH2 (0.4-0.5m BGL) equal the ESL criteria of 0.7 mg/kg.

The Benzo(a)pyrene data from has been assessed statistically against the relevant assessment criteria, as shown in Table K1. The 95% UCL of the mean concentrations Benzo(a)pyrene from the fill soil material was below the ESL criteria and the standard deviation was less than 50% of the ESL criteria and no single concentration exceeded the HIL criteria by more than 250%.

14.3 PAH, OCP, OPP & PCB

14.3.1 Heath Investigation Levels

As indicated in Tables K1, the concentrations of the benzo(a)pyrene (as TEQ), PAH, OCP, OPP & PCB were below the Health Investigation Level (HIL) for a residential development, that being the HIL 'B' and/or the limit of reporting (LOR), apart from:

- Concentrations of PCB (1.0mg/kg) in location BH9 (0.1-0.2m BGL) equal the HIL B criteria of 1.0 mg/kg.

The PCB data from has been assessed statistically against the relevant assessment criteria, as shown in Table K1. The 95% UCL of the mean concentrations PCB from the fill soil material was below the HIL criteria and the standard deviation was less than 50% of the HIL criteria and no single concentration exceeded the HIL criteria by more than 250%.

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14.3.2 EILs & ESLs

As indicated in Tables K1, the concentrations of arsenic, naphthalene and DDT were below the EILs & ESLs for a residential development.

14.4 Asbestos

As shown in Table K1, asbestos was detected in sample BH1 (0.3-0.4m).

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15.0 GROUNDWATER

The laboratory certificates are presented in **Appendix H** – NATA Accredited Laboratory Certificates. A summary of the results together with the assessment criteria adopted are provided in **Appendix K** – Summary Tables.

15.1 HEAVY METALS

As indicated in Table K2, dissolved Chromium, Copper, Nickel & Zinc were detected at concentrations above the respective groundwater investigation level for the marine ecosystems.

The remaining metals concentrations were either below the laboratory limits of reporting (LOR) or their respective assessment criteria.

15.2 TRH & BTEXN

As shown In Table K2, the BTEXN concentrations were either less than the laboratory limit of reporting (LOR) and/or below the assessment criteria.

As indicated in Table K2, the TRH F1 (C_6-C_{10}), F2 (>C_{10}-C_{16}), benzene, toluene, ethyl benzene, xylenes and naphthalene concentrations were below the HSL 'B' for Sand with a source depth of "2m to <4m".

15.3 PAH

As indicated in Table K2, the PAH concentrations were either less than the laboratory limit of reporting (LOR) and/or below the assessment criteria.

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15.4 VOCs in Groundwater

As indicated in Table K3, the VOC concentrations were either less than the laboratory limit of reporting (LOR) and/or below the adopted assessment criteria.

Refer to **Appendix K** – NATA Accredited Laboratory Certificates.

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16.0 PRELIMINARY SOIL CLASSIFICATION

A preliminary soil classification on the sampling completed during the DSI has been completed below.

- Soil fill material located within the borehole locations BH2 to BH3, BH5 to BH13 are classified as ***General Solid Waste (non-putrescible).***
- Soil fill material located within the borehole locations BH4 is classified as ***Restricted Solid Waste.***
- Soil fill material located within the borehole location BH1 is classified as ***Restricted Solid Waste and Special Waste (Asbestos).***
- A TCLP leachate analysis is recommended to further characterise the initial waste classification at the time of removal.

Refer to **Appendix K** – Summary Tables K4.

17.0 DISCUSSION

17.1 SOILS

The soil data concluded the following:

- The soil laboratory results were below the adopted detection limits and/or the relevant guideline criteria, apart from BH1 where asbestos was detected within the soil material.
- Therefore, upon review of the decision area dataset results, the null hypothesis for the investigation was accepted due to the asbestos contamination present on the site.

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17.2 GROUNDWATER

The following lines of evidence support the low to moderate risk groundwater conclusions in relation to site suitability:

- *Whether sources have been removed* – no immediate sources of contamination were identified on the site or within the surrounding areas. Therefore, the risk of groundwater contamination is considered low. However, further investigation may be required if future structures or sources are identified.
- *Contaminant sources unrelated to the site* – there is no information on the groundwater quality, however the land use on the site and the surrounding areas is predominately residential. There is unlikely then to be any risk of soil and/or groundwater contamination.
- *Quantity of contaminants and its mobility characteristics* – during the investigation, minor elevated heavy metals of Chromium, Copper, Nickel & Zinc were identified in GW6, as well as Nickel & Zinc in GW1 and GW2. It is considered that these could be related to regional contamination and/or background levels. The bedrock below the site was also determined to be Sandstone, therefore minimising the movement groundwater within the site and surrounding areas (which is reflected by the similar exceedances of heavy metal contamination within the site).
- The site is not located in a catchment with contains the water quality objectives of drinking water (i.e., beneficial use) and therefore drinking water guidelines were not applied.

It is concluded then that the heavy metal exceedances within the site are of limited concern in relation to the GIL.

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17.3 DATA GAP

As part of the remediation works and post demolition of the existing site structure's additional locations are recommended to be completed targeting the former building footprints.

17.4 DUTY TO REPORT

Under Section 60 of the Contaminated Land Management Act 1997, the owner of the land is required to notify contamination in circumstances as indicated in the NSW EPA (2015) *Guidelines on Duty to Report Contamination under the Contaminated Land Management Act 1997*.

Sites that are significantly impacted by soil, groundwater and ground gases are likely to require notification to the NSW EPA under section 60 of the CLM Act. A decision process for use by site owners or responsible persons considering reporting contamination under section 60 is provided in Appendix 1 (Figure 1) of the guidelines.

No notification to NSW EPA is recommended based on the sampling and investigation to date.

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18.0 CONCLUSION AND RECOMMENDATION

Based on the historical review, environmental information, proposed development and laboratory results of the investigation, the site can be made ***suitable*** for the proposed development, subject to the following:

- It is considered that the site would be deemed suitable for the proposed development subject to the implementation of a Remediation Action Plan (RAP) to manage the abovementioned environmental concerns and data gaps.
- Any soil requiring removal from the site, as part of future site works, should be classified in accordance with the "Waste Classification Guidelines, Part 1: Classifying Waste" NSW EPA (2014).

Thank you for the opportunity of undertaking this work. We would be pleased to provide further information on any aspects of this report.

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19.0 LIMITATIONS

To the best of our knowledge information contained in this report is accurate at the date of issue, however, subsurface conditions, including groundwater levels and contaminant concentrations, can change in a limited time. This should be borne in mind if the report is used after a protracted delay.

There is always some disparity in subsurface conditions across a site that cannot be fully defined by investigation. Hence it is unlikely that measurements and values obtained from sampling and testing during environmental works carried out at a site will characterise the extremes of conditions that exist within the site.

There is no investigation that is thorough enough to preclude the presence of material that presently or in the future, may be considered hazardous at the site. Since regulatory criteria are constantly changing, concentrations of contaminants presently considered low may, in the future, fall under different regulatory standards that require remediation.

Opinions expressed herein are judgements and are based on our understanding and interpretation of current regulatory standards and should not be construed as legal opinions.

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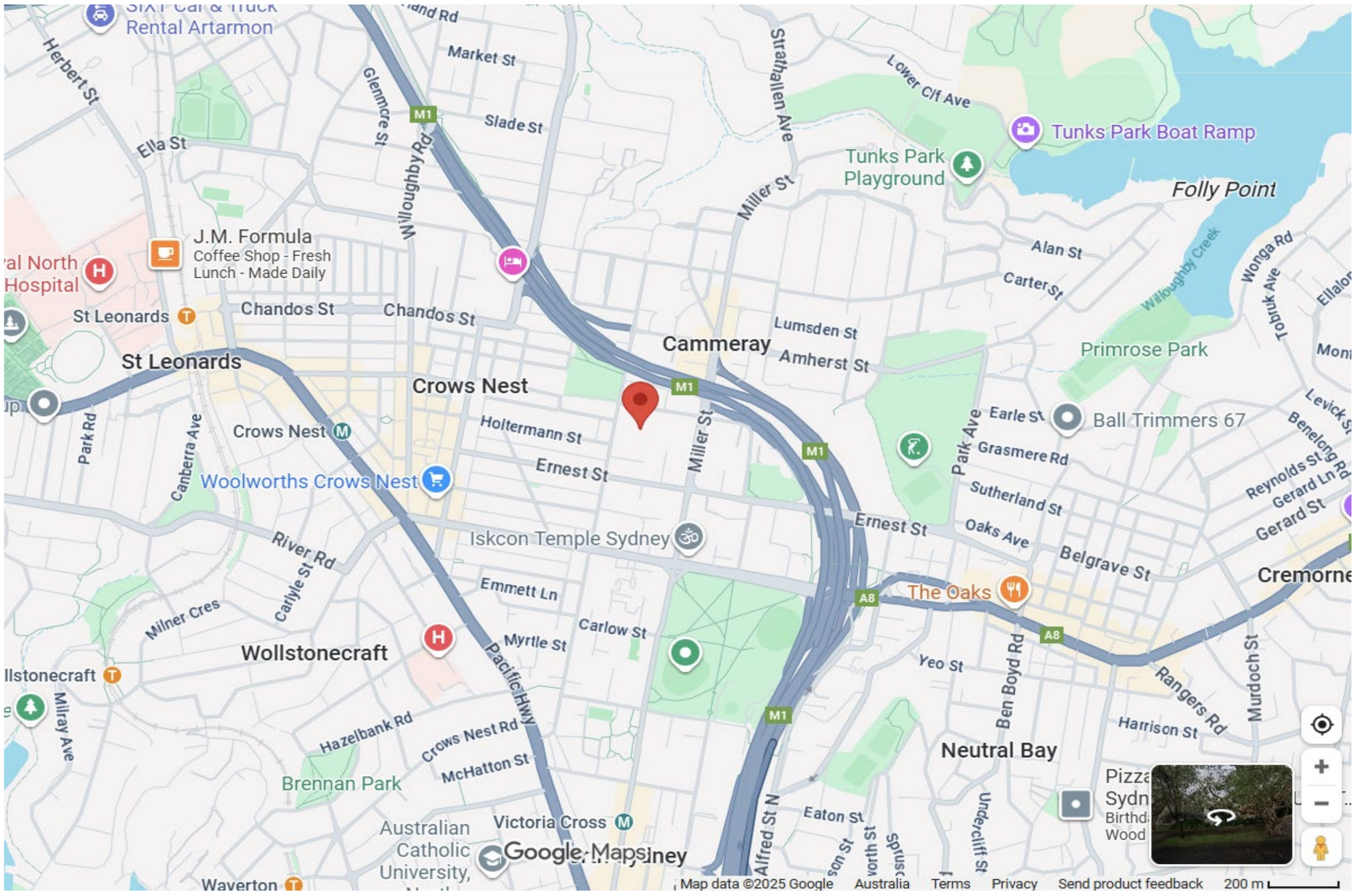
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- NSW EPA (2014) – "Waste Classification Guidelines, Part 1: Classifying Waste";
- NSW EPA (2015) "Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997";
- NSW EPA "Sampling Design Guidelines" (2022) Part 1 and Part2. NSW Environment Protection Authority, Sydney.

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FIGURE 1: SITE LOCATION

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Key Site Location	FOUNDATION EARTH SCIENCES	**DRAWN** MT	**Site Locality**
		Figure 1	Perifa
		E3403-2	19-23 Rosalind Street, Cammeray NSW

FIGURE 2: SITE FEATURES, BOREHOLE LOCATIONS & EXCEEDANCE PLAN

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Site Featues

a - Residential Apartment
b - Landscaped Areas
c - Driveway / Carpking Area

Soil Exceedance

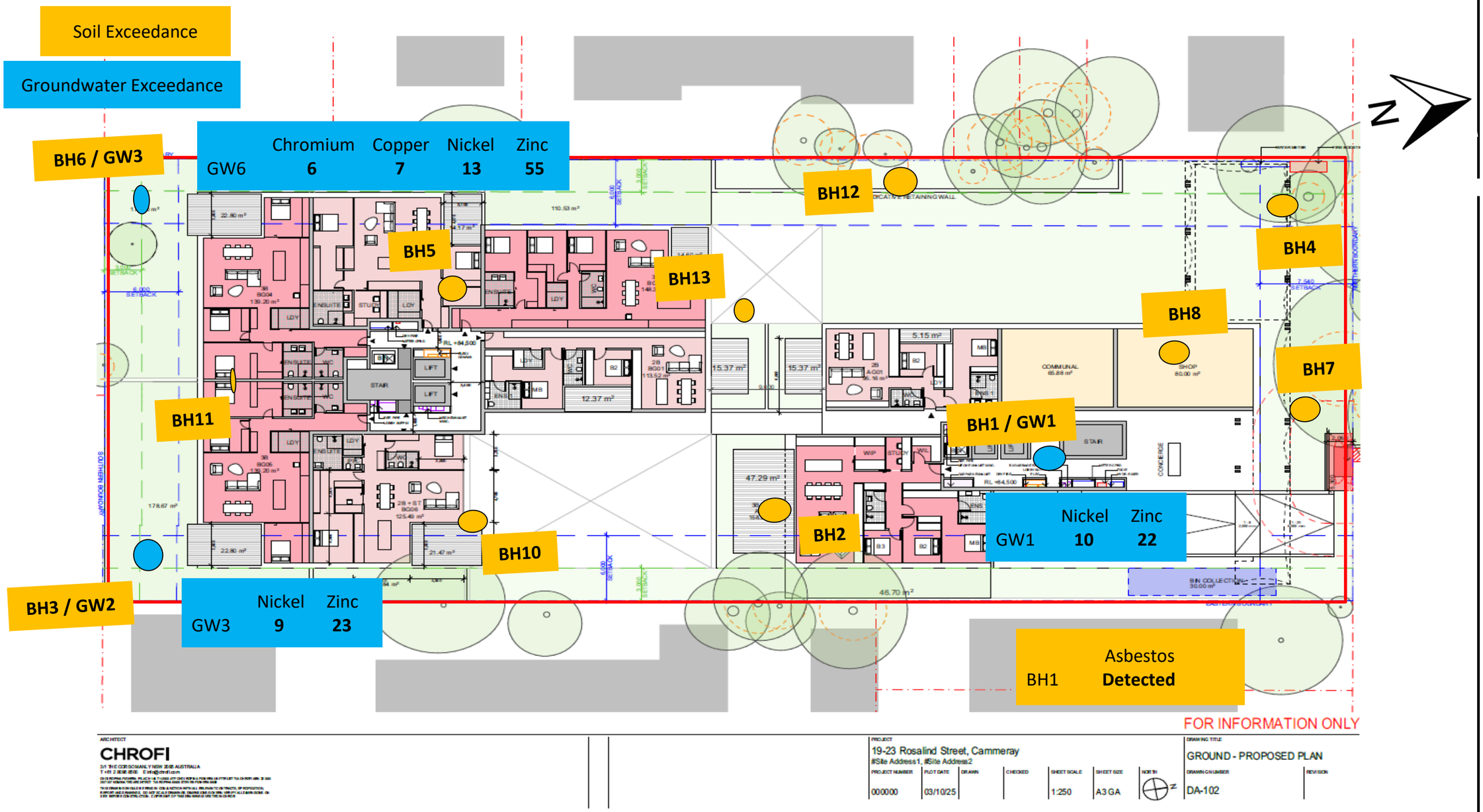
Groundwater Exceedance



Key		DRAWN	Site Features, Borehole Locations and Exceedance Plan
Site Boundary & Location FES DSI Soil BHs 2025 FES DSI Soil & GW BHs 2025	FOUNDATION EARTH SCIENCES	MT	
		Figure 2	Perifa
		E3403-2	19-23 Rosalind Street, Cammeray NSW

FIGURE 3: BOREHOLE LOCATIONS OVER PROPOSED GROUND FLOOR PLAN

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Key Site Boundary & Location FES DSI Soil BHs 2025 FES DSI Soil & GW BHs 2025	FOUNDATION EARTH SCIENCES	**DRAWN** MT	**Borehole Location over Proposed Ground Floor Plan**
		Figure 3	Perifa
		E3403-2	19-23 Rosalind Street, Cammeray NSW

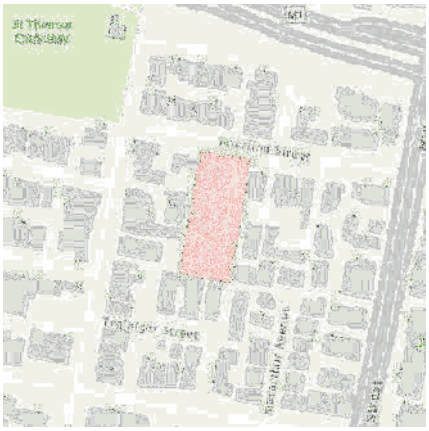
APPENDIX A: BYD PLANS

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Job ID 51367395

21 Rosalind Street

Review responses online



Received 8 of 8 responses

All responses received

21 Rosalind Street, Cammeray NSW 2062

Job dates
09/10/2025 → 09/10/2025

These plans expire on
4 Nov 2025

Lodged by
Megan Trethewy

Authority	Status	Page
BYDA Confirmation		2
Ausgrid	Received	4
Jemena Gas North	Received	22
NBN Co NswAct	Received	28
North Sydney Council	Received	39
Sydney Water	Received	42
Telstra NSW Central	Received	50
TPG Telecom (NSW)	Received	59
Verizon Business (Nsw)	Received	64

Zero damage - Zero harm - Zero disruption

Contact Details

Contact	Contact number	Company	Enquirer ID
Megan Trethewy	0409 620 828	Foundation Earth Sciences	3102600

Email
megan@foundationes.com.au

Address
Unit 119 14 Loyalty Road
North Rocks NSW 2151

Job Site and Enquiry Details

WARNING: The map below only displays the location of the proposed job site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.

Enquiry date	Start date	End date	On behalf of	Job purpose	Locations	Onsite activities
08/10/2025	09/10/2025	09/10/2025	Private	Excavation	Private	Vertical Boring



Check that the location of the job site is correct. If not, you must submit a new enquiry.

If the scope of works change or plan validity dates expire, you must submit a new enquiry.

Do NOT dig without plans. Safe excavation is your responsibility. If you don't understand the plans or how to proceed safely, please contact the relevant asset owners.

User Reference	Address	Notes/description
21 Rosalind Street	21 Rosalind Street Cammeray NSW 2062	-

Your Responsibility and Duty of Care

- **Lodging an enquiry does not authorise project commencement.** Before starting work, you must obtain all necessary information from all affected asset owners.
- If you don't receive plans within 2 business days, contact the asset owner & quote their sequence number.
- Always follow the 5Ps of Safe Excavation (page 2), and locate assets before commencing work.
- Ensure you comply with State legislative requirements for Duty of Care and safe digging.
- If you damage an underground asset, you MUST advise the asset owner immediately.
- By using the BYDA service, you agree to the Privacy Policy and Term of Use.
- For more information on safe digging practices, visit www.byda.com.au

Asset Owner Details

Below is a list of asset owners with underground infrastructure in and around your job site. It is your responsibility to identify the presence of these assets. Plans issued by Members are indicative only unless specified otherwise. Note: not all asset owners are registered with BYDA. You must contact asset owners not listed here directly.

Referral ID (Seq. no)	Authority Name	Phone	Status
262263647	Ausgrid	(02) 4951 0899	NOTIFIED
262263650	Jemena Gas North	1300 880 906	NOTIFIED
262263646	NBN Co NswAct	1800 687 626	NOTIFIED
262263649	North Sydney Council	(02) 9936 8100	NOTIFIED
262263651	Sydney Water	13 20 92	NOTIFIED
262263653	Telstra NSW Central	1800 653 935	NOTIFIED
262263652	TPG Telecom (NSW)	1800 786 306	NOTIFIED
262263648	Verizon Business (Nsw)	(02) 8210 3243	NOTIFIED

END OF UTILITIES LIST

APPENDIX B: NSW EPA RECORDS

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The submitted value in the *sc_filter_three* element is not allowed.

The NSW Government PFAS Investigation Program

View a map of the sites in NSW that may be contaminated with PFAS, learn how to reduce your exposure to these chemicals, and read about our investigation of the issue.

The EPA is leading an investigation program to assess the legacy of PFAS use across NSW. With the assistance of the NSW PFAS Technical Advisory Group, which includes NSW Health, Department of Primary Industries and the Office of Environment and Heritage, we provide impacted residents with tailored, precautionary dietary advice to help them reduce any exposure to PFAS.

Current investigations are focused on sites where it is likely that large quantities of PFAS have been used. The EPA is currently investigating PFAS at these sites:

Search by Postcode

2062

Organisation Select filter

Search

Map view List view

There are no results matching your query.

Sampling and analysis

The EPA is collecting samples of soils and/or waters for analysis for PFAS. The EPA is also looking for exposure pathways that may increase people's contact with the chemicals, such as bore and surface water usage.

If significant levels are detected and human or ecological exposure is likely, a more detailed assessment will be undertaken.

The EPA will work with the occupiers and owners of these sites, or the responsible parties, to clean-up the site, where necessary.

Timeframes for the investigation

The initial investigations can take approximately six months, with further testing undertaken where required.

Test findings are made available throughout the investigations.

More information is available on the NSW EPA **PFAS investigation process (/Your-environment/Chemicals/PFAS-in-NSW/nsw-government-pfas-investigation-program/pfas-investigation-process)** page.

Working with our stakeholders

The NSW Government is committed to working closely with all relevant government agencies, to closely monitor the progress of investigations, and to keep local communities informed. Government agencies include local councils, NSW Department of Primary Industries, NSW Health, NSW Food Authority, and where necessary the Commonwealth Department of Defence, and Commonwealth Department of Health.

In NSW the polluter pays for and manages any clean-up required. Although the NSW Government cannot regulate Defence sites, it has outlined expectations that Defence will carry out investigations in a timely manner that is consistent with the EPA's requirements and processes.

More information

- **PFAS investigation program fact sheet (PDF 213KB) (/sites/default/files/23p4472-state-wide-pfas-investigation-program.pdf)**
- **PFAS investigation program FAQs page (/Your-environment/Chemicals/PFAS-in-NSW/nsw-government-pfas-investigation-program/pfas-investigation-faqs)**

- NSW Department of Health (https://www.health.nsw.gov.au/environment/factsheets/Pages/pfos.aspx)
- For specific health inquiries call the NSW Department of Health on 1300 066 055
- If you have any questions about the EPA's PFAS investigation program, please call the Environment Line on 131 555 or email info@environment.nsw.gov.au (mailto:info@environment.nsw.gov.au)

Updated 15 November 2024

Search results

Your search for: Suburb: CAMMERAY

Matched 3 notices relating to 1 site.

Search Again Refine Search

Suburb	Address	Site Name	Notices related to this site
CAMMERAY	Brothers AVENUE	Tunks Park	3 former

8 October 2025

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CAMELLIA	Wrigg	13 Grand AVENUE	Metal Industry	Under preliminary investigation order	-33.81971361	151.0321525
CAMELLIA	Former Shell Clyde Refinery	Durham STREET	Other Petroleum	Contamination currently regulated under CLM Act	-33.82804924	151.0378966
CAMELLIA	Council Reserve	11B Grand AVENUE	Metal Industry	Regulation under CLM Act not required	-33.81850502	151.0302425
CAMELLIA	Veolia	37 Grand AVENUE	Chemical Industry	Contamination currently regulated under CLM Act	-33.81980027	151.0430689
CAMELLIA	Sydney Water	41 Grand AVENUE	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.8217493	151.0453367
CAMELLIA	Maritime Services Board	33A Grand AVENUE	Metal Industry	Regulation under CLM Act not required	-33.81836086	151.0401249
CAMMERAY	Tunks Park	Brothers AVENUE	Landfill	Contamination formerly regulated under the CLM Act	-33.81734704	151.2113338
CAMMERAY	Coles Express Cammeray	477-483 Miller STREET	Service Station	Regulation under CLM Act not required	-33.82141124	151.2108658
CAMPBELLTOWN	Mobil Service Station	96-98 Queen STREET	Service Station	Regulation under CLM Act not required	-34.06407588	150.8170082
CAMPBELLTOWN	BP Macarthur Service Station	Cnr Blaxland ROAD and Campbelltown ROAD	Service Station	Regulation under CLM Act not required	-34.05312872	150.8234349
CAMPBELLTOWN	Former vehicle wrecking yard	38 Blaxland ROAD	Other Industry	Regulation under CLM Act not required	-34.06055735	150.8130598
CAMPERDOWN	Former Gee Graphics	27 Church STREET	Other Industry	Regulation under CLM Act not required	-33.88737747	151.1773616
CAMPERDOWN	O'Dea Reserve	Salisbury LANE	Landfill	Contamination formerly regulated under the CLM Act	-33.89072786	151.1736948
CAMPERDOWN	The Spruce	12-14 Marsden STREET	Other Industry	Regulation under CLM Act not required	-33.88720632	151.1784514
CAMPSIE	Budget Petroleum and adjacent property	403 Canterbury Road and 1 Una STREET	Service Station	Contamination currently regulated under CLM Act	-33.91605617	151.1086596

Search results

Your search for: **General Search** with the following criteria

Suburb - CAMMERAY

returned 0 result

Search Again

APPENDIX C: SITE PHOTOGRAPHS

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SITE PHOTOGRAPHS

Client:	Perifa
Project:	DSI
Site Location:	19-23 Rosalind Street, Cammeray NSW
Job No.:	E3403-2

FOUNDATION EARTH SCIENCES

Photo 1



View of landscaped area along northern boundary of No. 19
Looking west
Inspected 02.10.2025

Photo 2



View of residential apartment buidling and landscaped area along the western site boundary
Inspected 02.10.2025

Photo 3



View of residential apartment buildings along the western boundary
Looking south
Inspected 02.10.2025

Photo 4



View of sealed driveway along the eastern boundary
Looking north
Inspected 02.10.2025

Photo 5



View of the driveway/carparking condition on site
Looking north
Inspected 02.10.2025

Photo 6



View of apartment building on No. 23 & carparking areas under the dwelling
Looking south
Inspected 02.10.2025

Photo 7



View landscaped areas between residential dwellings(No. 21 & No. 23)
Looking west
Inspected 02.10.2025

APPENDIX D: DPI (OFFICE OF WATER) DATABASE RECORDS

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WaterNSW
Work Summary

GW023150

Licence: 10BL016576
Licence Status: CANCELLED

Authorised Purpose(s): DOMESTIC,RECREATION (GROUNDWATER)
Intended Purpose(s): IRRIGATION

Work Type: Well
Work Status:
Construct.Method: Hand Dug
Owner Type: Private

Commenced Date:
Completion Date: 01/01/1966
Final Depth: 1.80 m
Drilled Depth: 1.80 m

Contractor Name: (None)
Driller:
Assistant Driller:

Property: N/A NSW
GWMA: 603
GW Zone:
Standing Water Level (m):
Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	CUMBERLAND	WILLOUGHB	99999
Licensed:	CUMBERLA	WILLOUGH	Whole Lot

Region: 10 - Sydney South Coast
River Basin: 213 - SYDNEY COAST - GEORGES RIVER
Area/District:
CMA Map: 9130-3N
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: (Unknown)
Northing: 6255790.000
Easting: 335459.000
Latitude: 33°49'31.2"S
Longitude: 151°13'19.2"E

GS Map: -
MGA Zone: 56
Coordinate Source: GD.,PR. MAP

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Timber	0.00	1.80	914			Seated on Bottom

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
1.20	1.20	0.00	(Unknown)			0.76			

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	1.82	1.82	Made Ground Nominal Water Supply Rubble Nominal Sandstone Nominal	Sandstone	

Remarks

19/02/1975: SITED 49A EARLE ST. CREMORNE

WaterNSW
Work Summary

GW108224

Licence: 10WA109080 **Licence Status:** CURRENT

Authorised Purpose(s): DOMESTIC
Intended Purpose(s): DOMESTIC

Work Type: Bore
Work Status: Supply Obtained
Construct.Method: Down Hole Hamm
Owner Type: Private

Commenced Date:
Completion Date: 05/09/2006
Final Depth: 132.40 m
Drilled Depth: 132.40 m

Contractor Name: INTERTEC DRILLING SERVICES
Driller: Colin Leslie Barden
Assistant Driller:

Property: PITTORINO 1 Ross Lane NAREMBURN 2065 NSW
GWMA:
GW Zone:
Standing Water Level (m): 35.000
Salinity Description:
Yield (L/s): 0.300

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	CUMBERLAND	WILLOUGHB	1 306386
Licensed:	CUMBERLA	WILLOUGH	Whole Lot 1//306386

Region: 10 - Sydney South Coast
River Basin: - Unknown
Area/District:
CMA Map:
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown
Northing: 6256404.000
Easting: 333214.000
Latitude: 33°49'10.0"S
Longitude: 151°11'52.3"E

GS Map: -
MGA Zone: 56
Coordinate Source: GIS - Geogra

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	2.50	203			Down Hole Hammer
1		Hole	Hole	2.50	132.40	165			Down Hole Hammer
1		Annulus	Concrete	0.00	2.50	203			
1	1	Casing	Pvc Class 9	-0.40	71.60	140			Suspended in Clamps, Screwed and Glued
1	1	Casing	Steel	-0.40	2.60	165	155		Driven into Hole, Suspended in Clamps

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
29.00	35.00	6.00	Unknown			0.10		00:25:00	1750.00
98.00	100.00	2.00	Unknown			0.20		00:05:00	970.00

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.60	0.60	clay, sandy	Clay	
0.60	2.80	2.20	sandstone, weathered	Sandstone	

2.80	3.10	0.30	clay	Clay	
3.10	25.50	22.40	sandstone, weathered	Sandstone	
25.50	27.00	1.50	sandstone, grey quartz	Sandstone	
27.00	29.00	2.00	shale	Shale	
29.00	35.00	6.00	sandstone, quartz grey	Sandstone	
35.00	41.00	6.00	shale	Shale	
41.00	52.00	11.00	sandstone, grey	Sandstone	
52.00	54.00	2.00	sandstone, quartz grey	Sandstone	
54.00	61.00	7.00	sandstone, grey	Sandstone	
61.00	65.00	4.00	shale	Shale	
65.00	81.00	16.00	sandstone, grey	Sandstone	
81.00	84.00	3.00	sandstone, grey quartz siltstone	Sandstone	
84.00	98.00	14.00	sandstone, grey	Sandstone	
98.00	100.00	2.00	sandstone, grey quartz	Sandstone	
100.00	106.50	6.50	sandstone, grey	Sandstone	
106.50	109.00	2.50	sandstone, dark brown	Sandstone	
109.00	110.50	1.50	sandstone, grey quartz	Sandstone	
110.50	112.00	1.50	siltstone	Siltstone	
112.00	132.40	20.40	sandstone, grey	Sandstone	

Remarks

04/05/2010: updated from original form A

***** End of GW108224 *****

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

APPENDIX E: PROPOSED DEVELOPMENT PLANS

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19 - 23 ROSALIND ST, CAMMERAY

DEVELOPMENT APPLICATION

Page No.	Title	REV
DA-000	COVER PAGE	A
DA-001	SURVEY 1/2	A
DA-002	SURVEY 2/2	A
DA-003	SITE PLAN	A
DA-004	SITE ANALYSIS	A
DA-005	EXISTING PLAN	A
DA-006	DEMOLITION PLAN	A
DA-100	BASEMENT 2 - PROPOSED PLAN	A
DA-101	LOWER GROUND - PROPOSED PLAN	A
DA-102	GROUND - PROPOSED PLAN	A
DA-103	LEVEL 1 - PROPOSED PLAN	A
DA-104	LEVEL 2 - PROPOSED PLAN	A
DA-105	LEVEL 3 - PROPOSED PLAN	A
DA-106	LEVEL 4 - PROPOSED PLAN	A
DA-107	LEVEL 5 - PROPOSED PLAN	A
DA-108	ROOF - PROPOSED PLAN	A
DA-200	ELEVATIONS	A
DA-201	ELEVATIONS	A
DA-202	ELEVATIONS	A
DA-300	SECTIONS	A
DA-301	SECTIONS	A
DA-302	SECTIONS	A
DA-303	SECTIONS	A
DA-400	SHADOW DIAGRAMS 1/2	A
DA-401	SHADOW DIAGRAMS 2/2	A
DA-500	GFA AREA SCHEDULES & PLANS	A
DA-501	UNIT MIX	A
DA-502	COMPLIANCE DIAGRAMS	A
DA-503	ADG - CROSS VENTILATION	A
DA-504	ADG - SOLAR	A
DA-505	HEIGHT PLANE DIAGRAM	A
DA-600	STREET VIEW 1	A
DA-601	STREET VIEW 2	A
DA-602	STREET VIEW 3	A
DA-603	COURTYARD VIEW 1	A



AERIAL VIEW

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A	15/1/2026	Issue for DA

PROJECT

19-23 Rosalind Street, Cammeray

19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG		A3 GA	

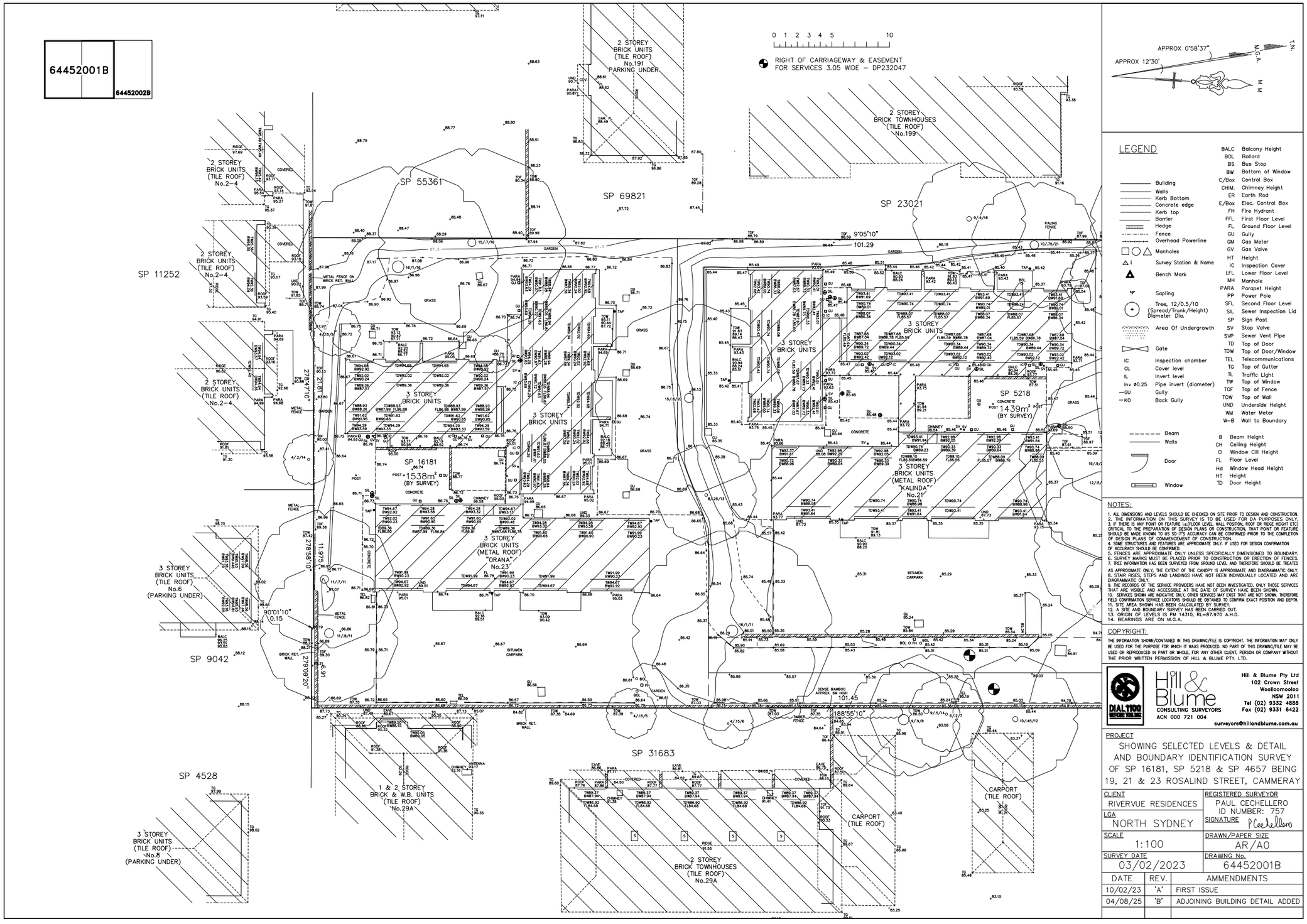
DRAWING TITLE

COVER PAGE

DRAWING NUMBER	REVISION
DA-000	A

64452001B

64452002B



LEGEND

- Building
- Walls
- Kerb Bottom
- Concrete edge
- Kerb top
- Barrier
- Hedge
- Fence
- Overhead Powerline
- Manholes
- Survey Station & Name
- Bench Mark
- Sapling
- Tree, 12/0.5/10 (Spread/Trunk/Height) Diameter Dia.
- Area Of Undergrowth
- Gate
- IC Inspection chamber
- CL Cover level
- IL Invert level
- Inv Ø0.25 Pipe invert (diameter)
- —GU Gully
- —KO Back Gully

- Beam
- Walls
- Door
- Window

BALC	Balcony Height
BOL	Bollard
BS	Bus Stop
BW	Bottom of Window
C/Box	Control Box
CHIM.	Chimney Height
ER	Earth Rod
E/Box	Elec. Control Box
FH	Fire Hydrant
FFL	First Floor Level
FL	Ground Floor Level
GU	Gully
GM	Gas Meter
GV	Gas Valve
HT	Height
IC	Inspection Cover
LFL	Lower Floor Level
MH	Manhole
PARA	Parapet Height
PP	Power Pole
SFL	Second Floor Level
SIL	Sewer Inspection Lid
SP	Sign Post
SV	Stop Valve
SVP	Sewer Vent Pipe
TD	Top of Door
TDW	Top of Door/Window
TEL	Telecommunications
TG	Top of Gutter
TL	Traffic Light
TW	Top of Window
TOF	Top of Fence
TOW	Top of Wall
UND	Underside Height
WM	Water Meter
W–B	Wall to Boundary

B	Beam Height
CH	Ceiling Height
CI	Window Cill Height
FL	Floor Level
Hd	Window Head Height
HT	Height
TD	Door Height

NOTES:

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11. SITE AREA SHOWN HAS BEEN CALCULATED BY SURVEY.
12. A SITE AND BOUNDARY SURVEY HAS BEEN CARRIED OUT.
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PROJECT

SHOWING SELECTED LEVELS & DETAIL AND BOUNDARY IDENTIFICATION SURVEY OF SP 16181, SP 5218 & SP 4657 BEING 19, 21 & 23 ROSALIND STREET, CAMMERAY

CLIENT: RIVERVUE RESIDENCES	REGISTERED SURVEYOR: PAUL CECHELLERO ID NUMBER: 757
LGA: NORTH SYDNEY	SIGNATURE: P Cechellero
SCALE: 1:100	DRAWN/PAPER SIZE: AR/A0
SURVEY DATE: 03/02/2023	DRAWING No.: 64452001B

DATE	REV.	AMMENDMENTS
10/02/23	'A'	FIRST ISSUE
04/08/25	'B'	ADJOINING BUILDING DETAIL ADDED

ARCHITECT

CHROFI

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CHOI ROPHA FIGHERA P/L ACN 144 714 885 ATF CHOI ROPHA FIGHERA UNIT TRUST T/A CHROFI ABN 22 365 257 187 NOMINATED ARCHITECT TAI ROPHA 6568 STEVEN FIGHERA 6609

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A	15/1/2026	Issue for DA

PROJECT

19-23 Rosalind Street, Cammeray

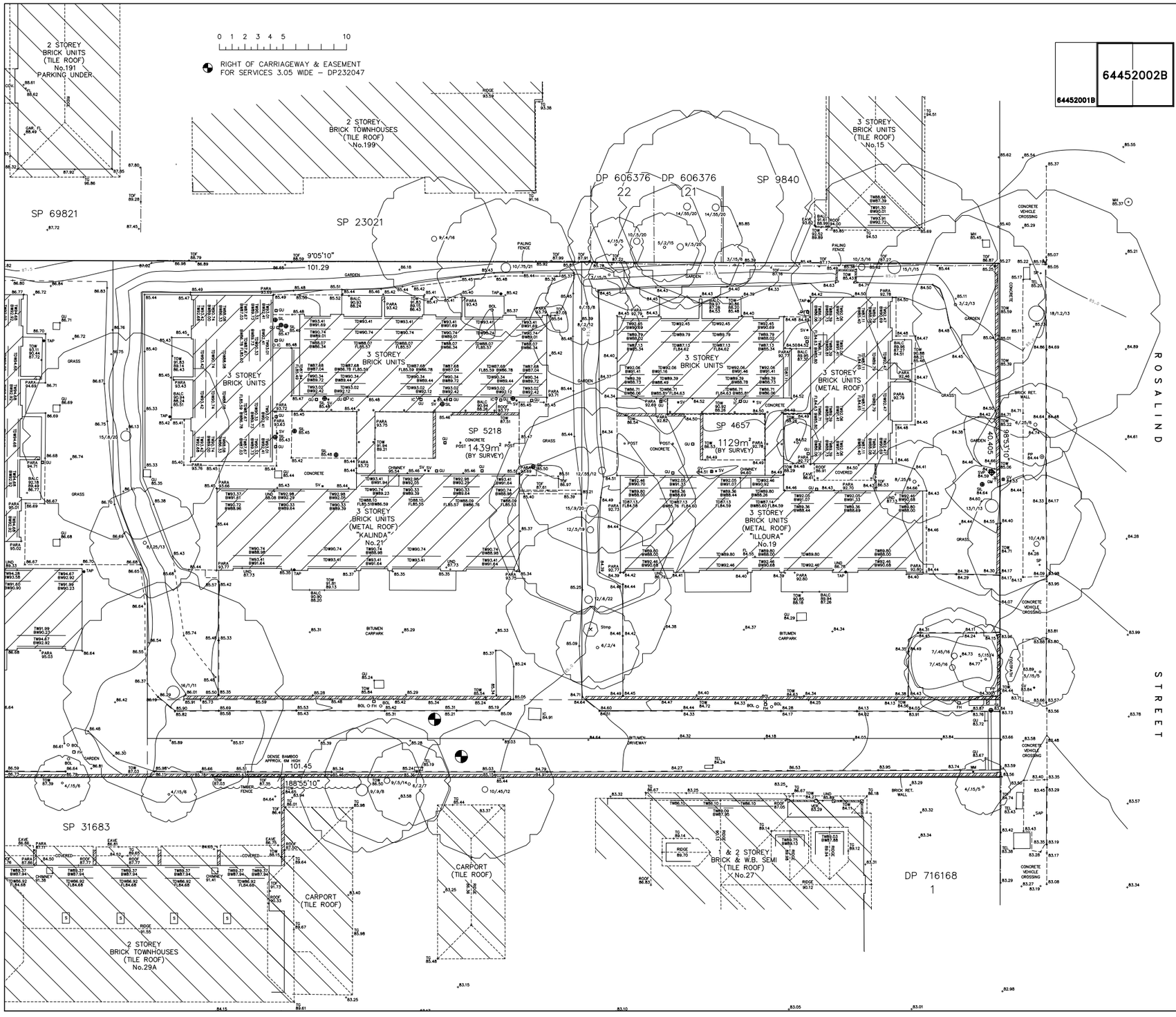
19-23 Rosalind Street, Cammeray, NSW 2062

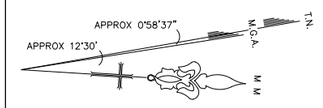
PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:100@A0	A3 GA	N

DRAWING TITLE

SURVEY 1/2

DRAWING NUMBER	REVISION
DA-001	A





LEGEND

	Building	BALC	Balcony Height
	Walls	BOL	Bollard
	Kerb Bottom	BS	Bus Stop
	Concrete edge	BW	Bottom of Window
	Kerb top	C/Box	Control Box
	Barrier	CHIM.	Chimney Height
	Hedge	ER	Earth Rod
	Fence	E/Box	Elec. Control Box
	Overhead Powerline	FH	Fire Hydrant
	Manholes	FFL	First Floor Level
△1	Survey Station & Name	FL	Ground Floor Level
▲	Bench Mark	GU	Gully
SAP	Sapling	GM	Gas Meter
	Tree, 12/0.5/10 (Spread/Trunk/Height) Diameter Dia.	GV	Gas Valve
	Area Of Undergrowth	HT	Height
	Gate	IC	Inspection Cover
IC	Inspection chamber	LFL	Lower Floor Level
CL	Cover level	MH	Manhole
IL	Invert level	PARA	Parapet Height
Inv Ø0.25	Pipe Invert (diameter)	PP	Power Pole
—GU	Gully	SFL	Second Floor Level
—KO	Back Gully	SIL	Sewer Inspection Lid
		SP	Sign Post
		SV	Stop Valve
		SVP	Sewer Vent Pipe
		TD	Top of Door
		TDW	Top of Door/Window
		TEL	Telecommunications
		TG	Top of Gutter
		TL	Traffic Light
		TW	Top of Window
		TOF	Top of Fence
		TOW	Top of Wall
		UND	Underside Height
		WM	Water Meter
		W–B	Wall to Boundary

	Beam	B	Beam Height
	Walls	CH	Ceiling Height
		CI	Window Cill Height
	Door	FL	Floor Level
		Hd	Window Head Height
		HT	Height
	Window	TD	Door Height

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PROJECT
SHOWING SELECTED LEVELS & DETAIL AND BOUNDARY IDENTIFICATION SURVEY OF SP 16181, SP 5218 & SP 4657 BEING 19, 21 & 23 ROSALIND STREET, CAMMERAY

CLIENT: RIVERVUE RESIDENCES	REGISTERED SURVEYOR: PAUL CECHELLERO ID NUMBER: 757 SIGNATURE
LGA: NORTH SYDNEY	
SCALE: 1:100	DRAWN/PAPER SIZE: AR/A0
SURVEY DATE: 03/02/2023	DRAWING No.: 64452002B

DATE	REV.	AMMENDMENTS
10/02/23	'A'	FIRST ISSUE
04/08/25	'B'	ADJOINING BUILDING DETAIL ADDED

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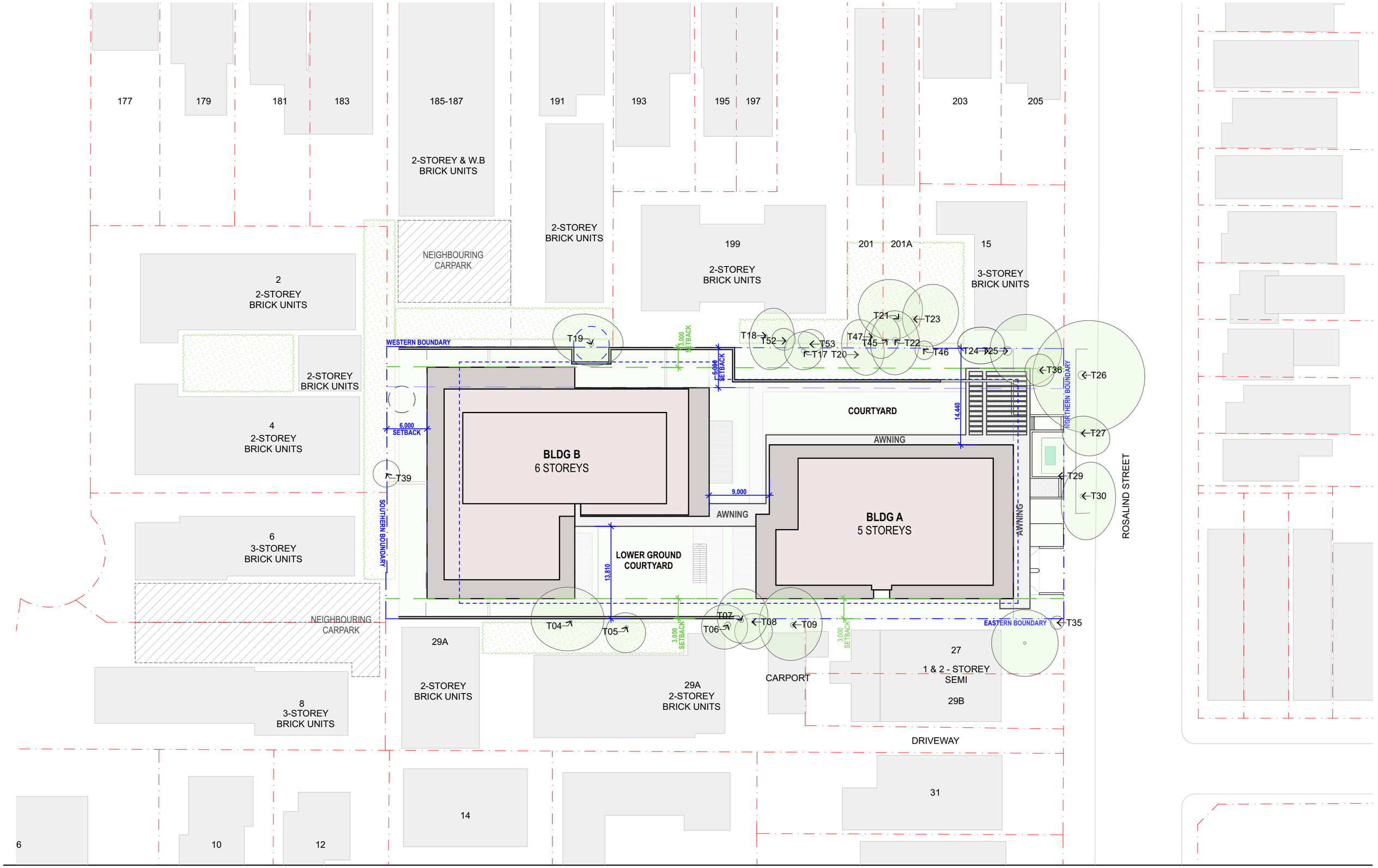
A	15/1/2026	Issue for DA

PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:100@A0	A3 GA	N

DRAWING TITLE
SURVEY 2/2

DRAWING NUMBER	REVISION
DA-002	A



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A	15/1/2026	Issue for DA

PROJECT

19-23 Rosalind Street, Cammeray

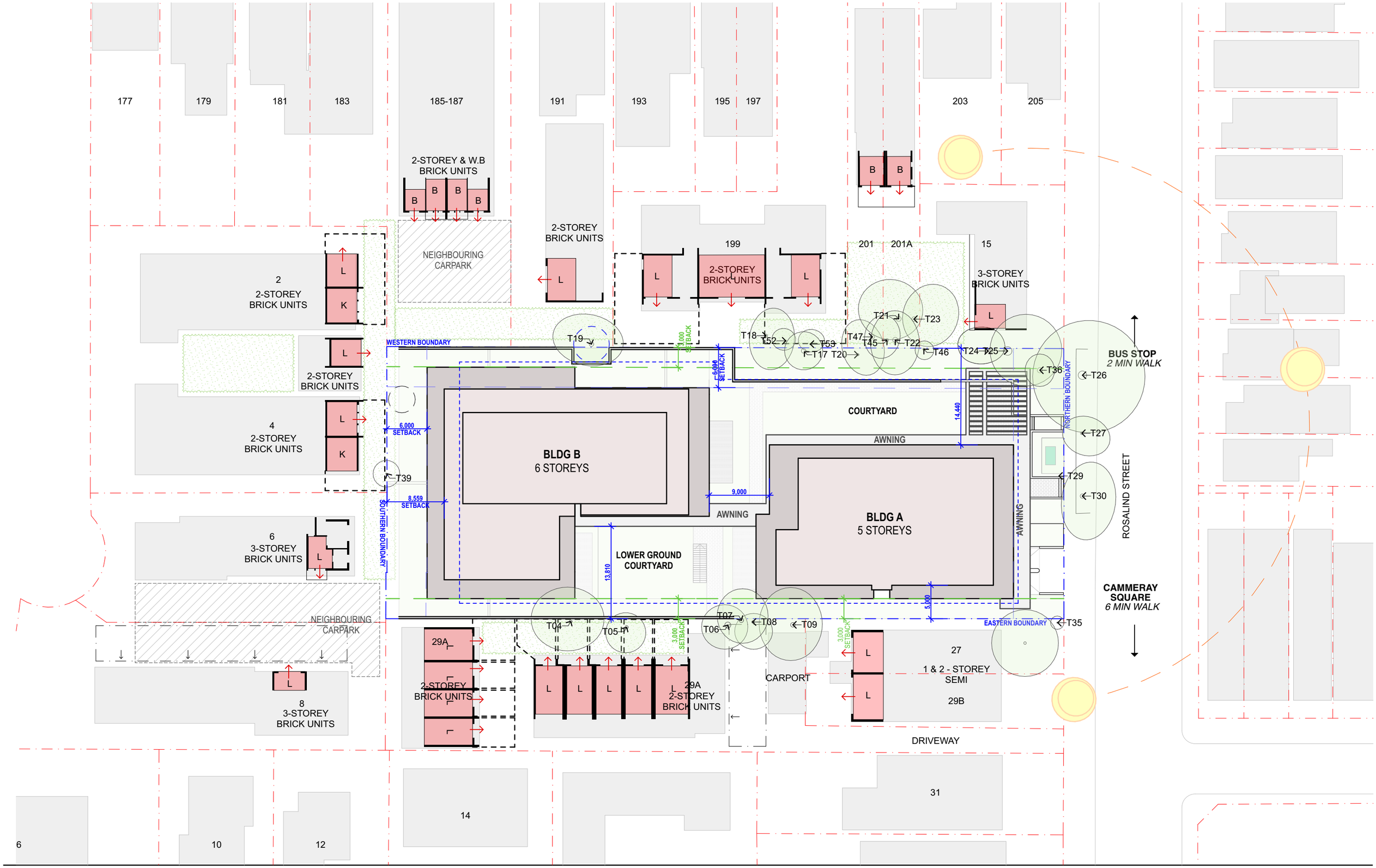
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:500	A3 GA	N

DRAWING TITLE

SITE PLAN

DRAWING NUMBER	REVISION
DA-003	A



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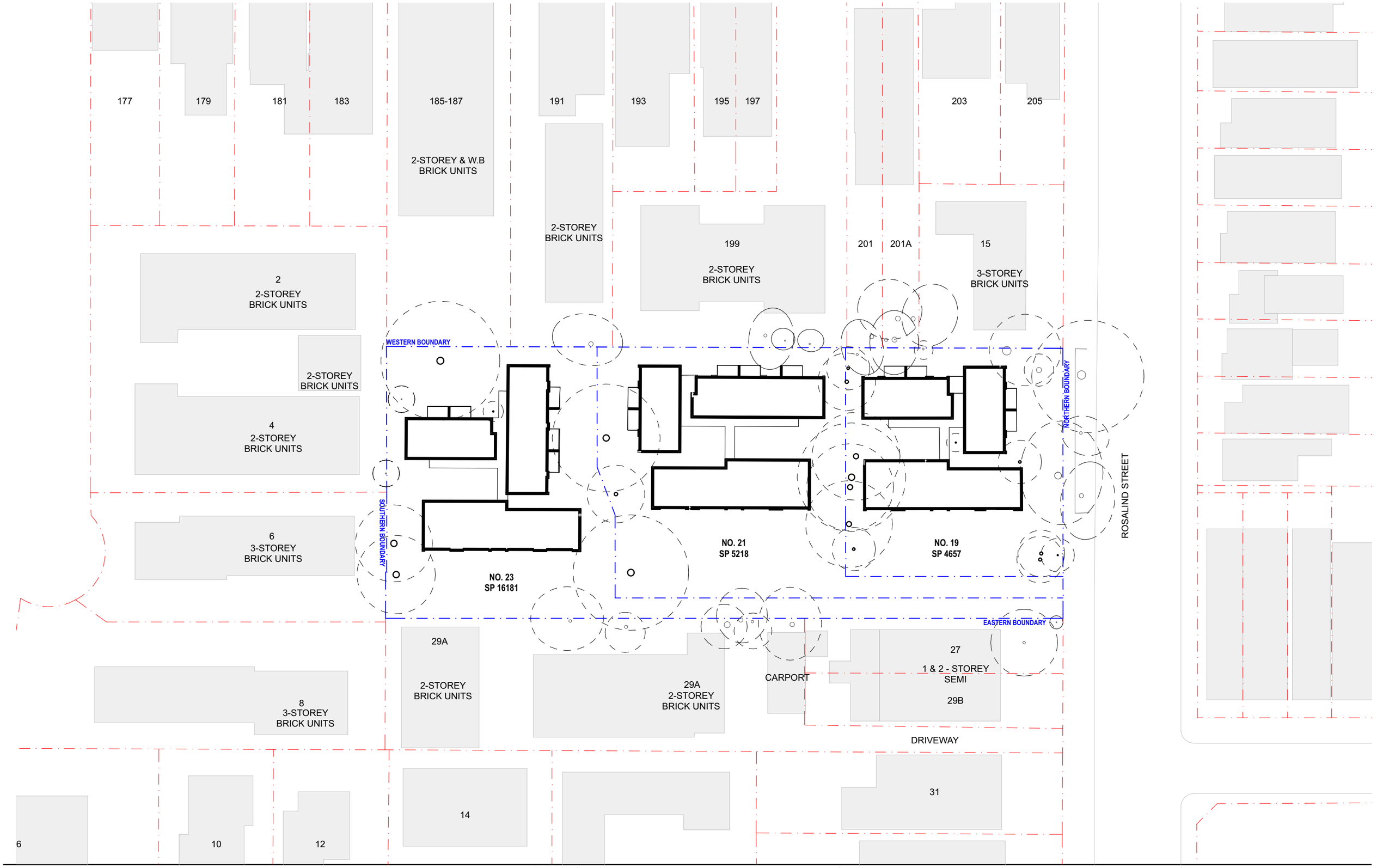
A	15/1/2026	Issue for DA

PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:500	A3 GA	N

DRAWING TITLE
SITE ANALYSIS

DRAWING NUMBER	REVISION
DA-004	A



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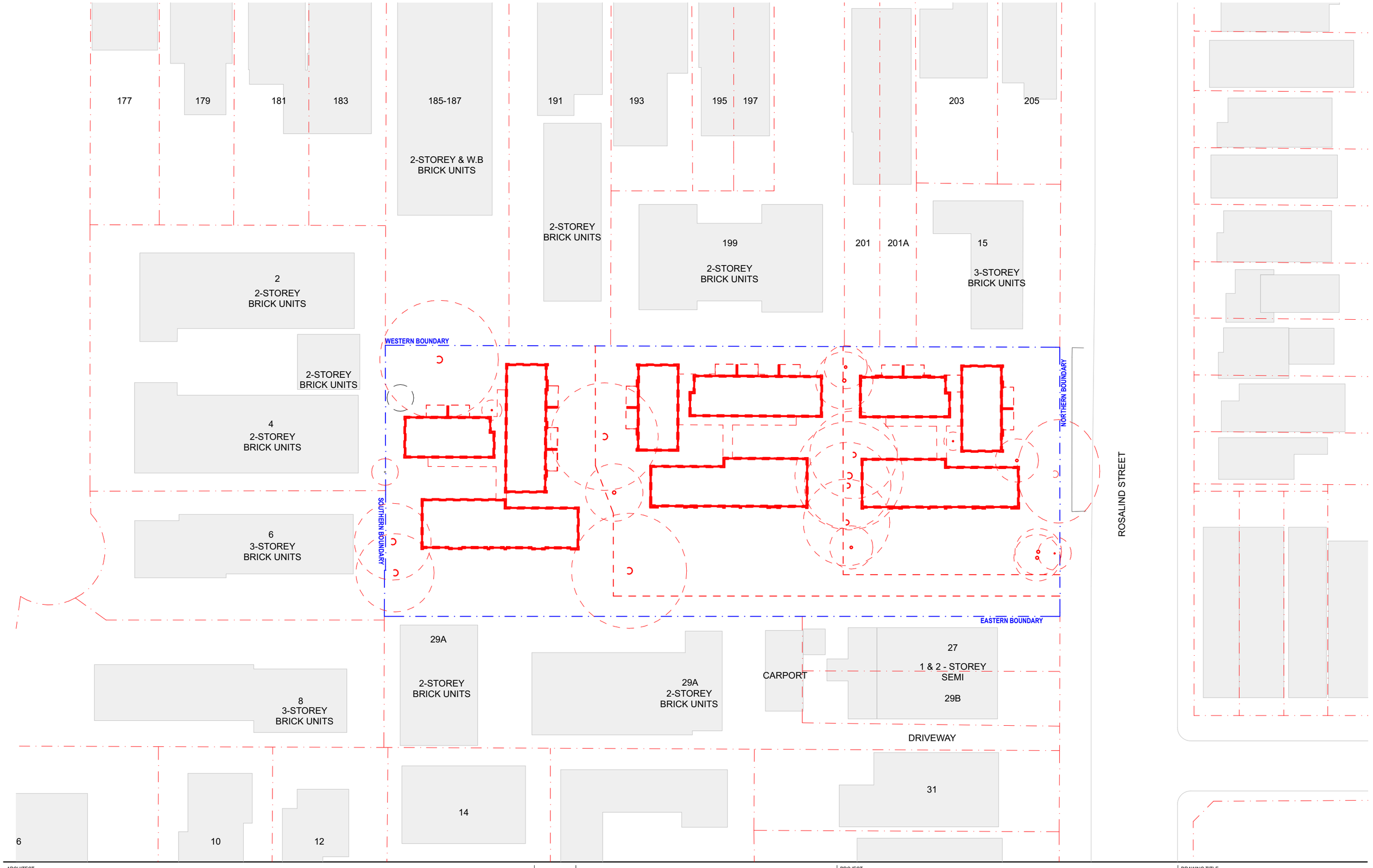
A	15/1/2026	Issue for DA

PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:500	A3 GA	N

DRAWING TITLE
EXISTING PLAN

DRAWING NUMBER	REVISION
DA-005	A



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PROJECT
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PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:500	A3 GA	N

DRAWING TITLE
DEMOLITION PLAN

DRAWING NUMBER	REVISION
DA-006	A

CARPARK SPACES YIELD		
LEVEL	TYPE	QUANTITY
BASEMENT 2	2.4m	27
BASEMENT 2	3.2m	22
BASEMENT 2	AS2890.6	6
		55
BASEMENT 1	2.4m	12
BASEMENT 1	3.2m	11
BASEMENT 1	AS2890.6	4
		27
		82



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A	15/1/2026	Issue for DA

PROJECT

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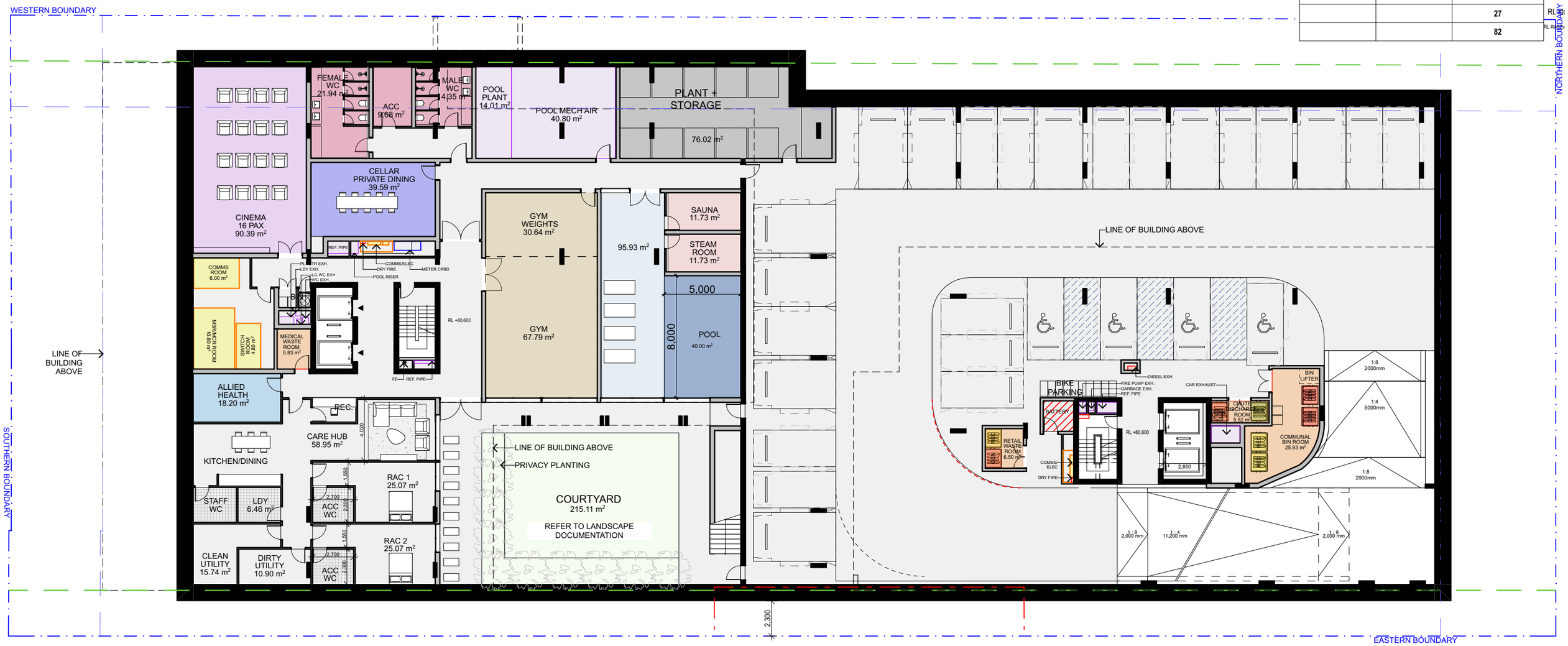
PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:250	A3 GA	N

DRAWING TITLE

BASEMENT 2 - PROPOSED PLAN

DRAWING NUMBER	REVISION
DA-100	A

CARPARK SPACES YIELD		
LEVEL	TYPE	QUANTITY
BASEMENT 2	2.4m	27
BASEMENT 2	3.2m	22
BASEMENT 2	AS2890.6	6
		55
BASEMENT 1	2.4m	12
BASEMENT 1	3.2m	11
BASEMENT 1	AS2890.6	4
		27
		82



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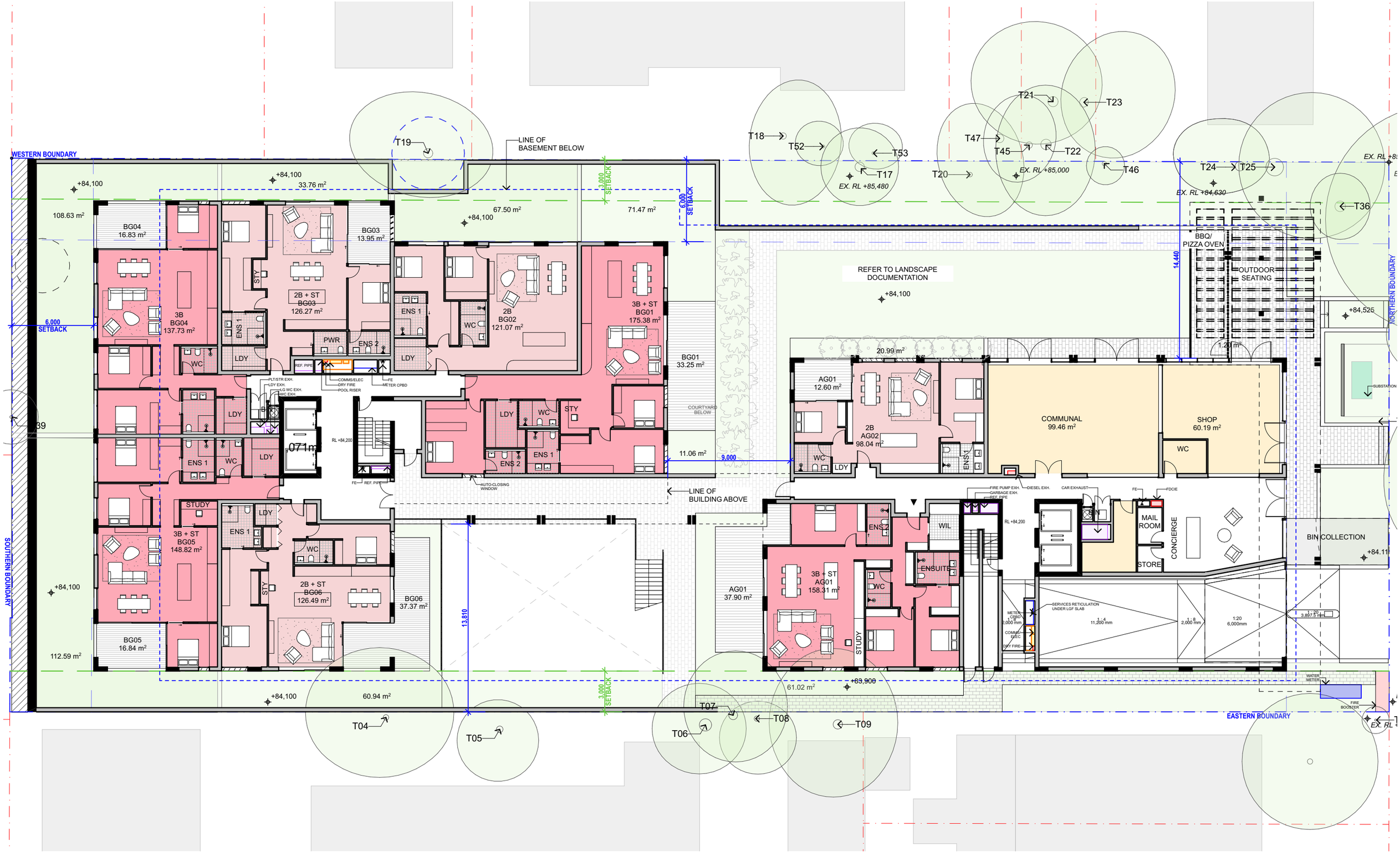
A	15/1/2026	Issue for DA

PROJECT
19-23 Rosalind Street, Cammeray
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PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:250	A3 GA	N

DRAWING TITLE
LOWER GROUND - PROPOSED PLAN

DRAWING NUMBER	REVISION
DA-101	A



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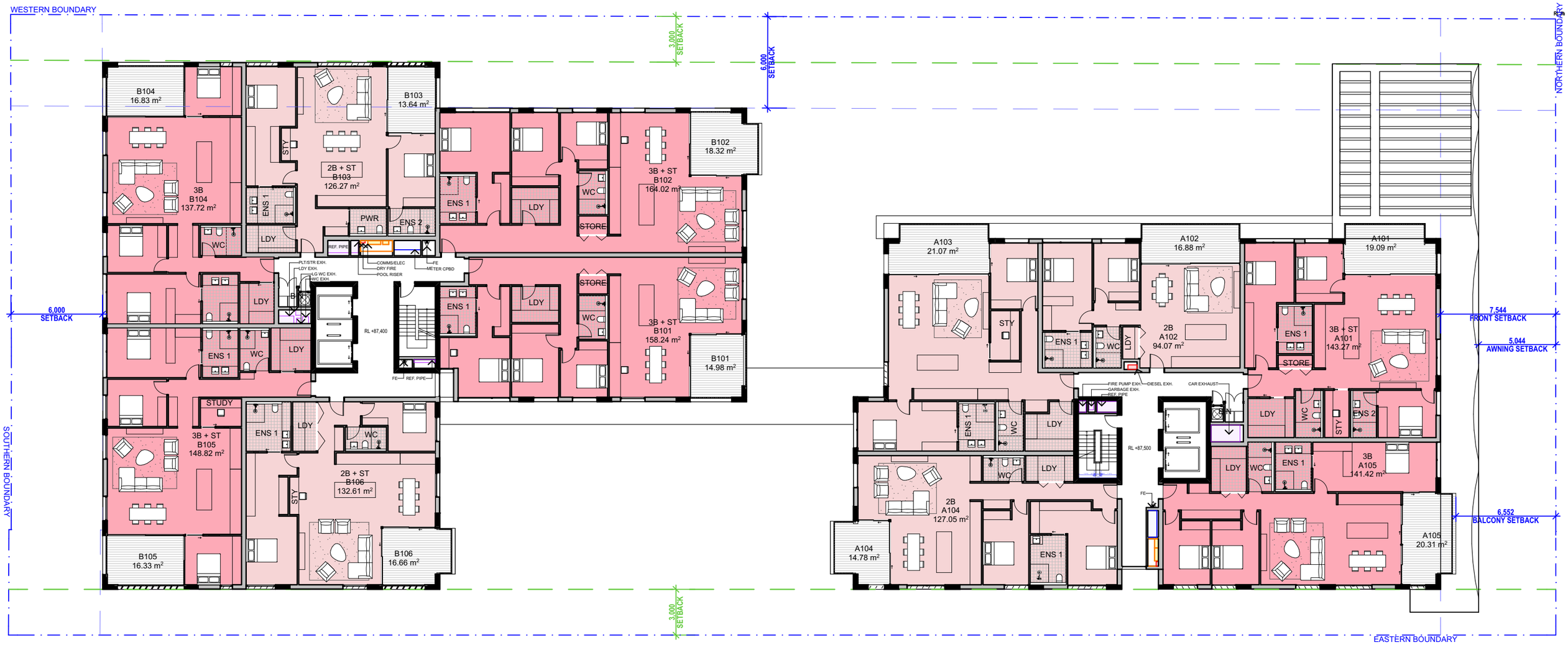
A	15/1/2026	Issue for DA

PROJECT
19-23 Rosalind Street, Cammeray
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PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:250	A3 GA	N

DRAWING TITLE
GROUND - PROPOSED PLAN

DRAWING NUMBER	REVISION
DA-102	A



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A	15/1/2026	Issue for DA

PROJECT

19-23 Rosalind Street, Cammeray

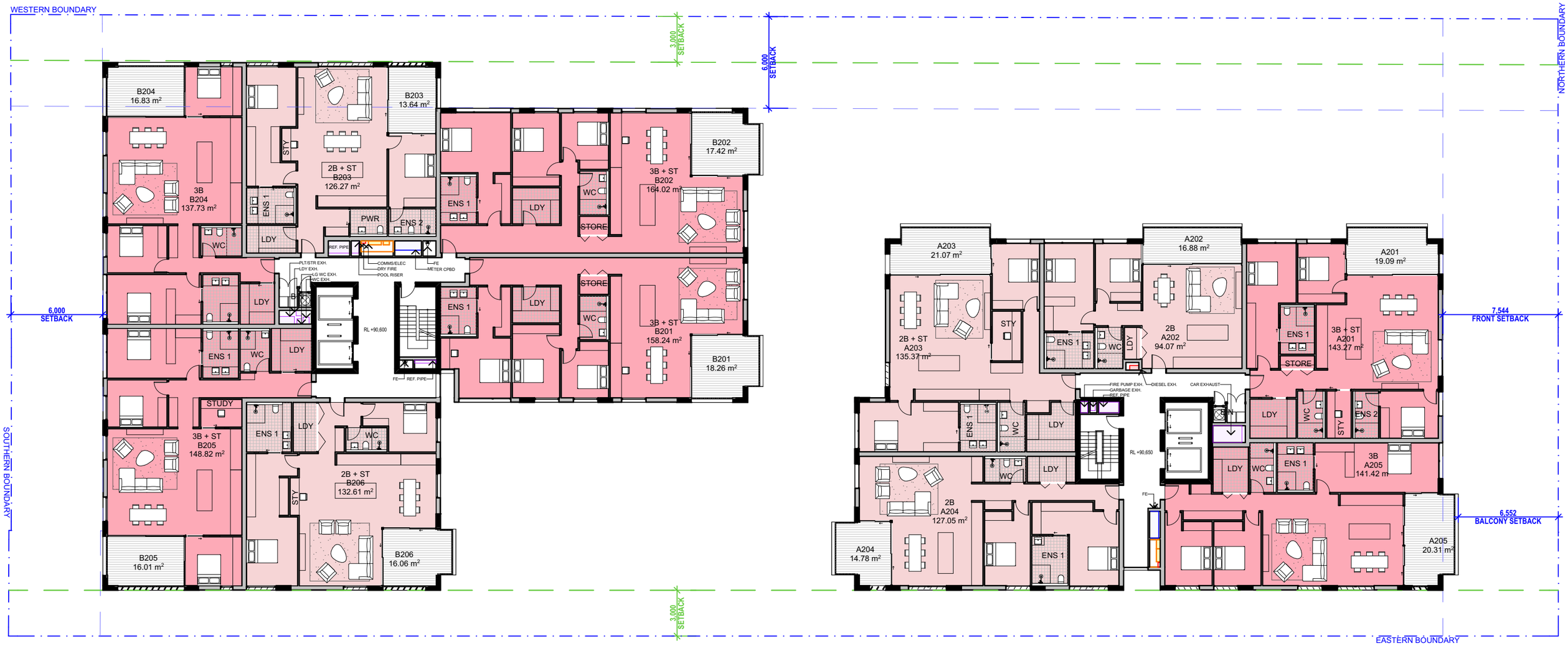
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:250	A3 GA	N

DRAWING TITLE

LEVEL 1 - PROPOSED PLAN

DRAWING NUMBER	REVISION
DA-103	A



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A	15/1/2026	Issue for DA

PROJECT

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PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:250	A3 GA	N

DRAWING TITLE

LEVEL 2 - PROPOSED PLAN

DRAWING NUMBER	REVISION
DA-104	A



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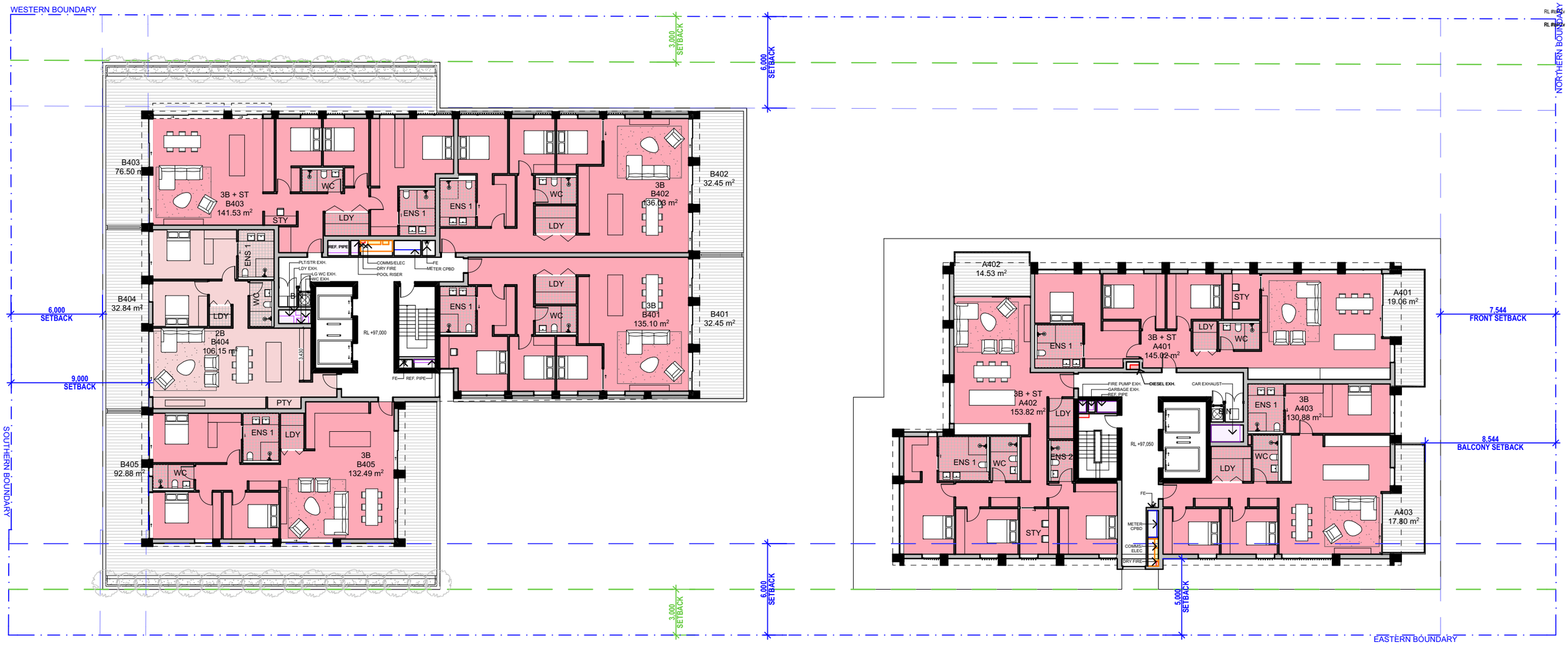
A	15/1/2026	Issue for DA

PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:250	A3 GA	N

DRAWING TITLE
LEVEL 3 - PROPOSED PLAN

DRAWING NUMBER	REVISION
DA-105	A



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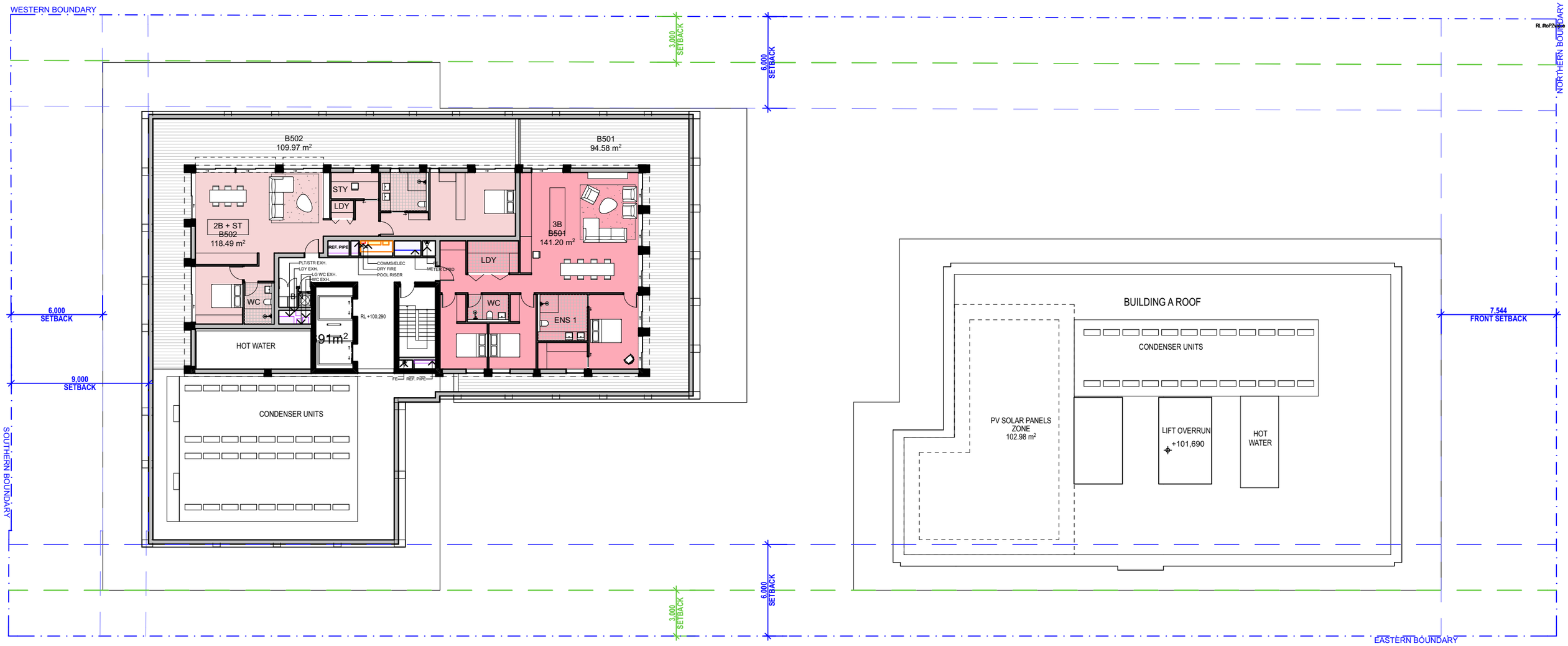
A	15/1/2026	Issue for DA

PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:250	A3 GA	N

DRAWING TITLE
LEVEL 4 - PROPOSED PLAN

DRAWING NUMBER	REVISION
DA-106	A



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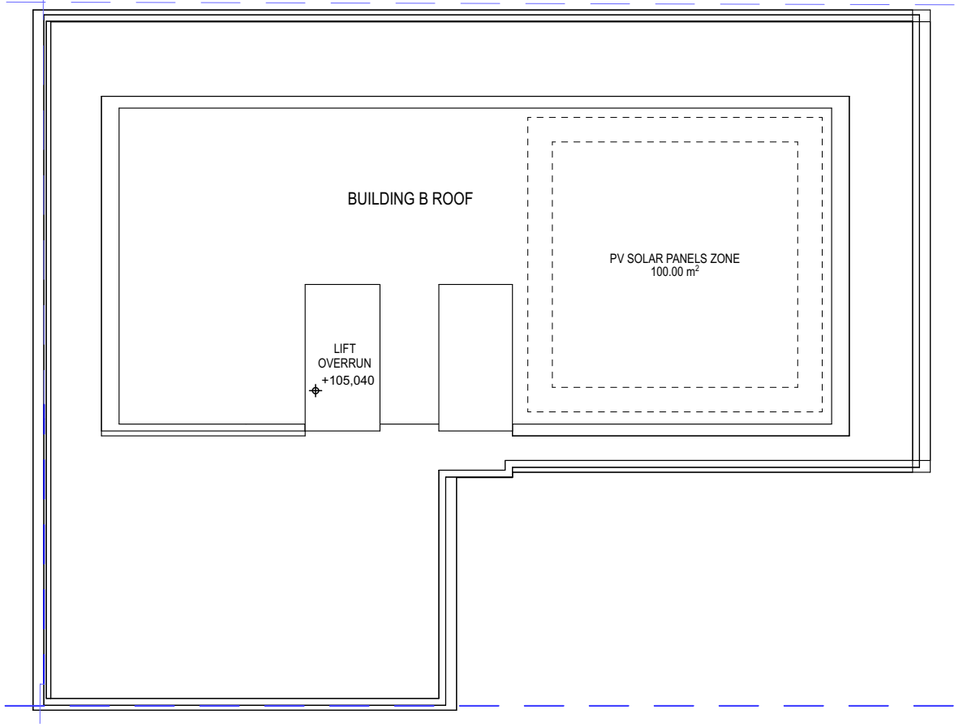
A	15/1/2026	Issue for DA

PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:250	A3 GA	N

DRAWING TITLE
LEVEL 5 - PROPOSED PLAN

DRAWING NUMBER	REVISION
DA-107	A



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A	15/1/2026	Issue for DA

PROJECT
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PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:250	A3 GA	N

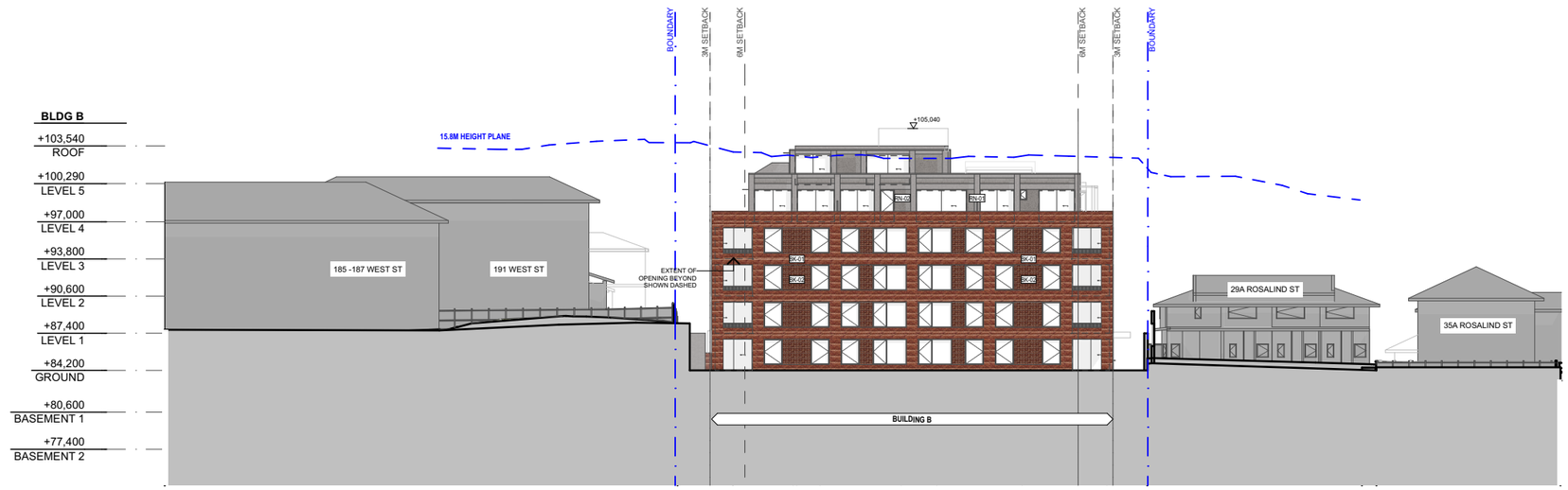
DRAWING TITLE
ROOF - PROPOSED PLAN

DRAWING NUMBER	REVISION
DA-108	A



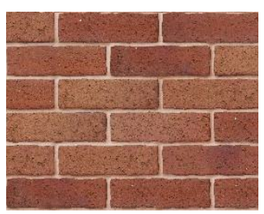
1
-

NORTH ELEVATION
1:500



2
-

SOUTH ELEVATION
1:500



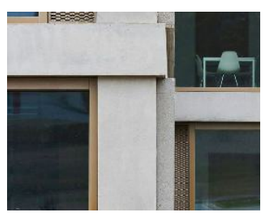
BK-01
RED BRICK
TINTED MORTAR



BK-02
RED BRICK
TINTED MORTAR
LINEAR RECESS



CN-01
CONCRETE
WARM GREY



RN-01
STO RENDER SMOOTH
LIGHT GREY



RN-02
STO RENDER TEXTURED
WARM/DARK GREY

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A	15/1/2026	Issue for DA

PROJECT
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PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:500	A3 GA	N

DRAWING TITLE
ELEVATIONS

DRAWING NUMBER	REVISION
DA-200	A



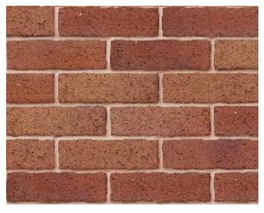
1
-

WEST ELEVATION
1:500



2
-

EAST ELEVATION
1:500



BK-01
RED BRICK
TINTED MORTAR



BK-02
RED BRICK
TINTED MORTAR
LINEAR RECESS



CN-01
CONCRETE
WARM GREY



RN-01
STO RENDER SMOOTH
LIGHT GREY



RN-02
STO RENDER TEXTURED
WARM/DARK GREY

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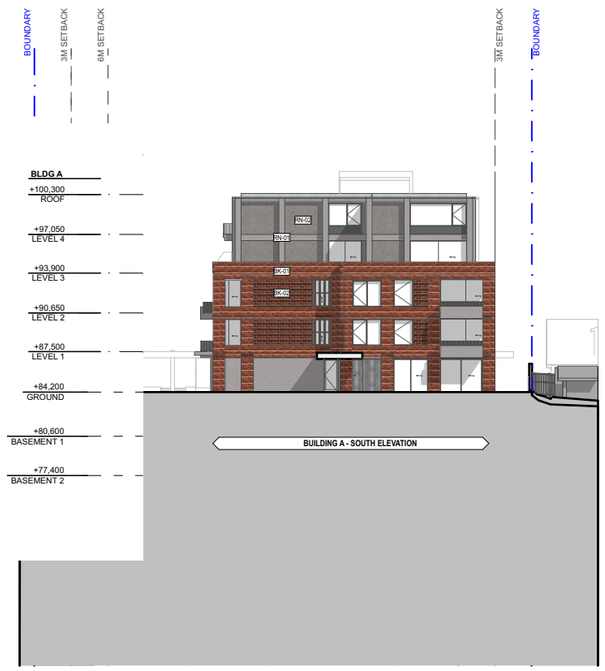
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PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

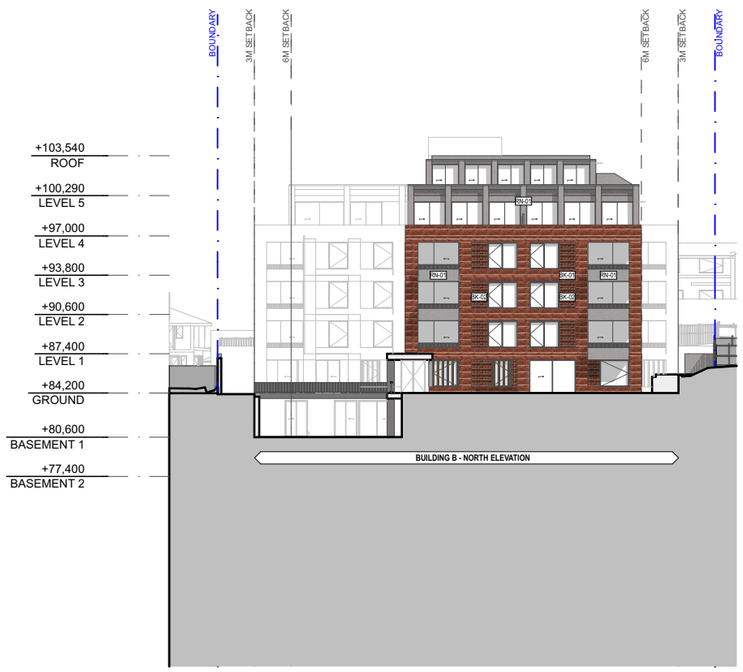
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25023	15/01/26	KN/WD	MG	1:500	A3 GA	N

DRAWING TITLE
ELEVATIONS

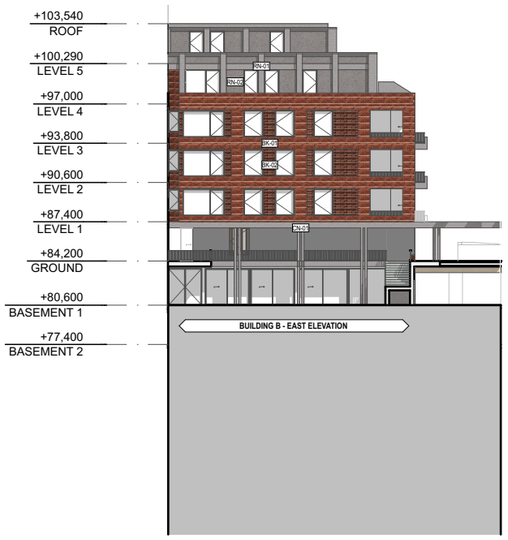
DRAWING NUMBER	REVISION
DA-201	A



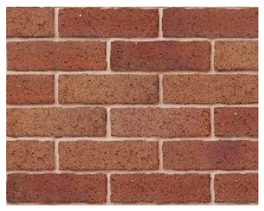
1 - SOUTH ELEVATION
1:500



2 - NORTH ELEVATION
1:500



3 - EAST ELEVATION
1:500



BK-01
RED BRICK
TINTED MORTAR



BK-02
RED BRICK
TINTED MORTAR
LINEAR RECESS



CN-01
CONCRETE
WARM GREY



RN-01
STO RENDER SMOOTH
LIGHT GREY



RN-02
STO RENDER TEXTURED
WARM/DARK GREY

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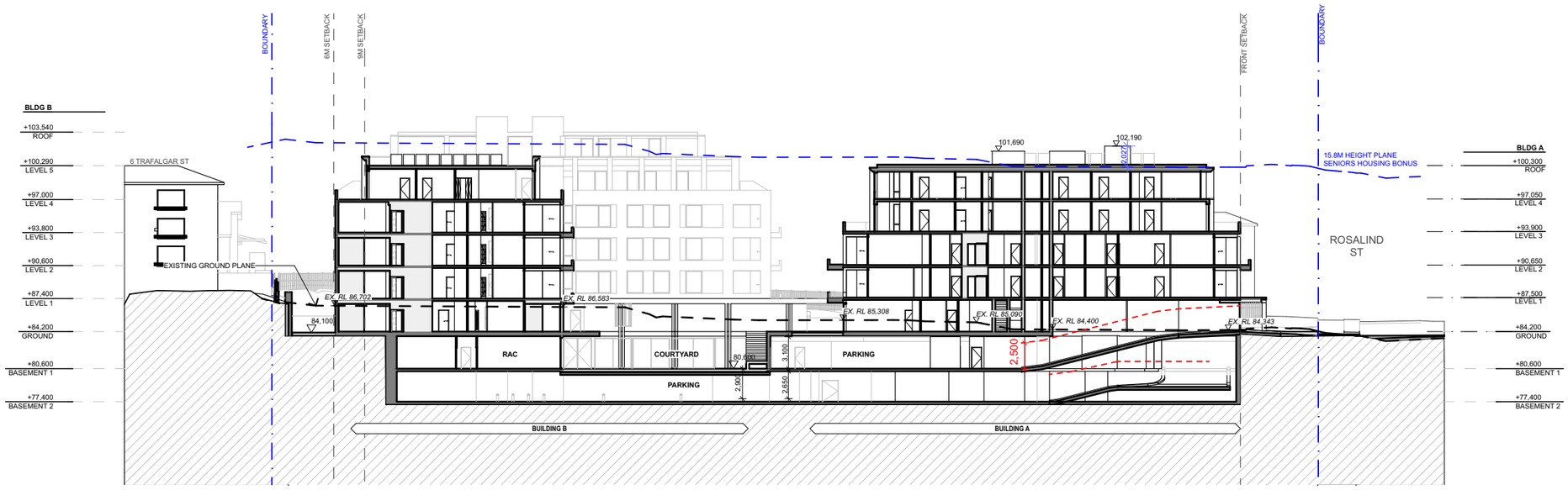
A	15/1/2026	Issue for DA

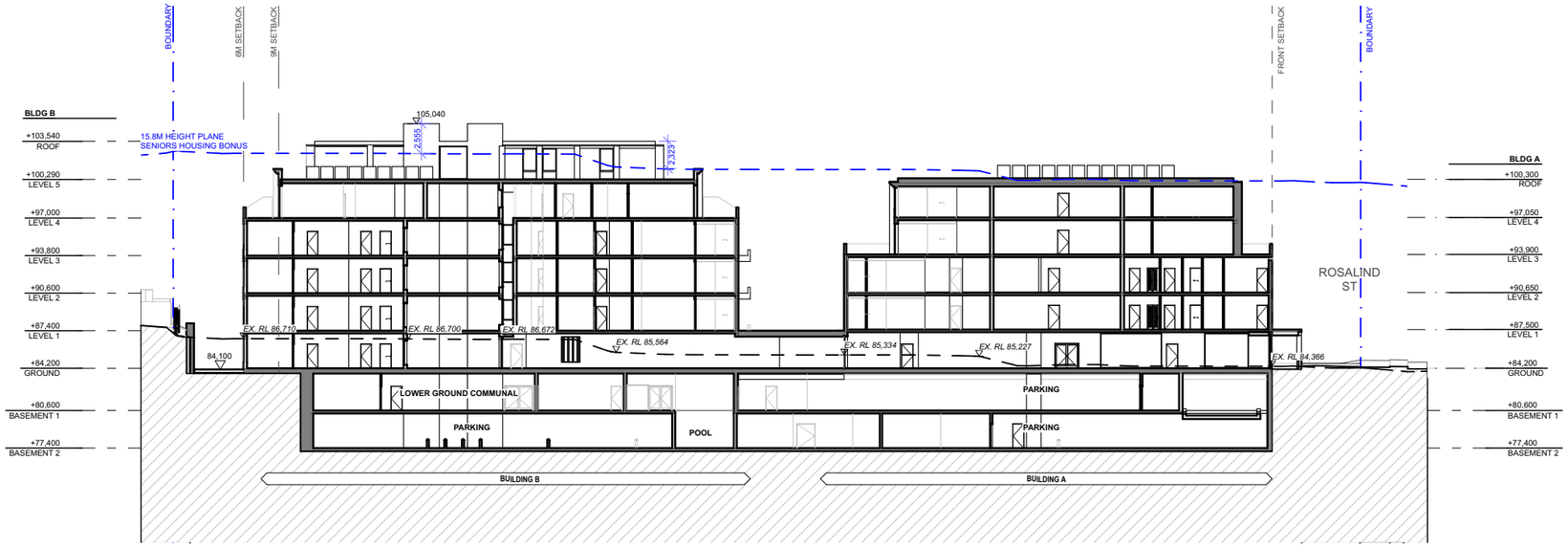
PROJECT
19-23 Rosalind Street, Cammeray
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PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
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DRAWING TITLE
ELEVATIONS

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PROJECT

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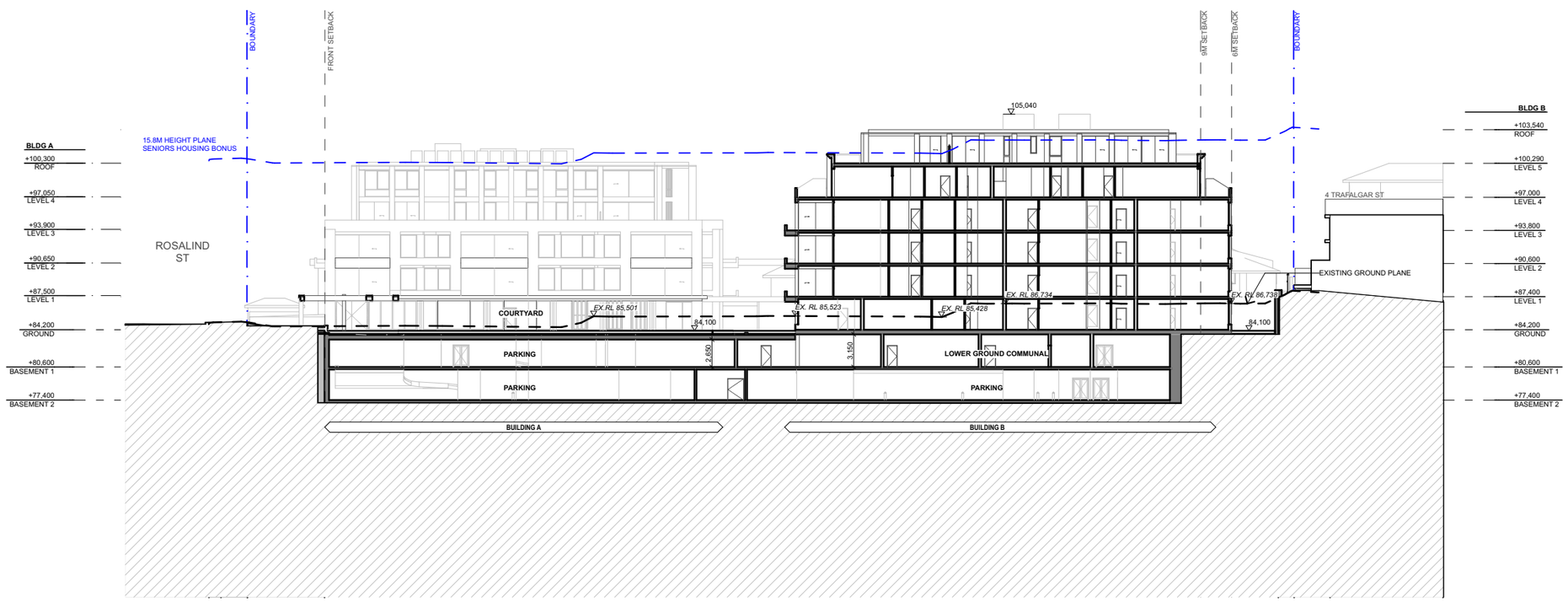
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:500	A3 GA	N

DRAWING TITLE

SECTIONS

DRAWING NUMBER	REVISION
DA-300	A



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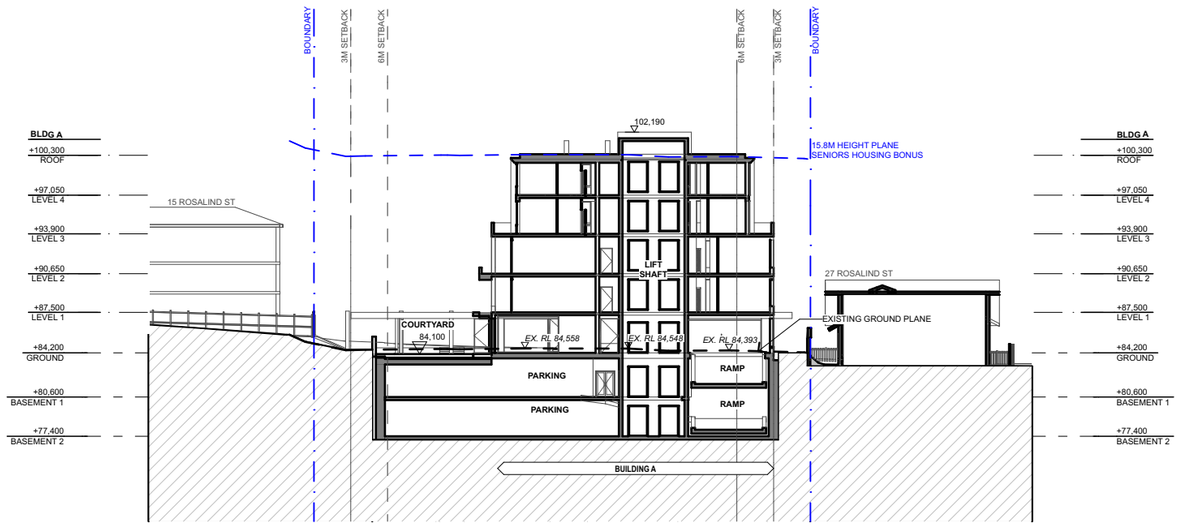
19-23 Rosalind Street, Cammeray, NSW 2062

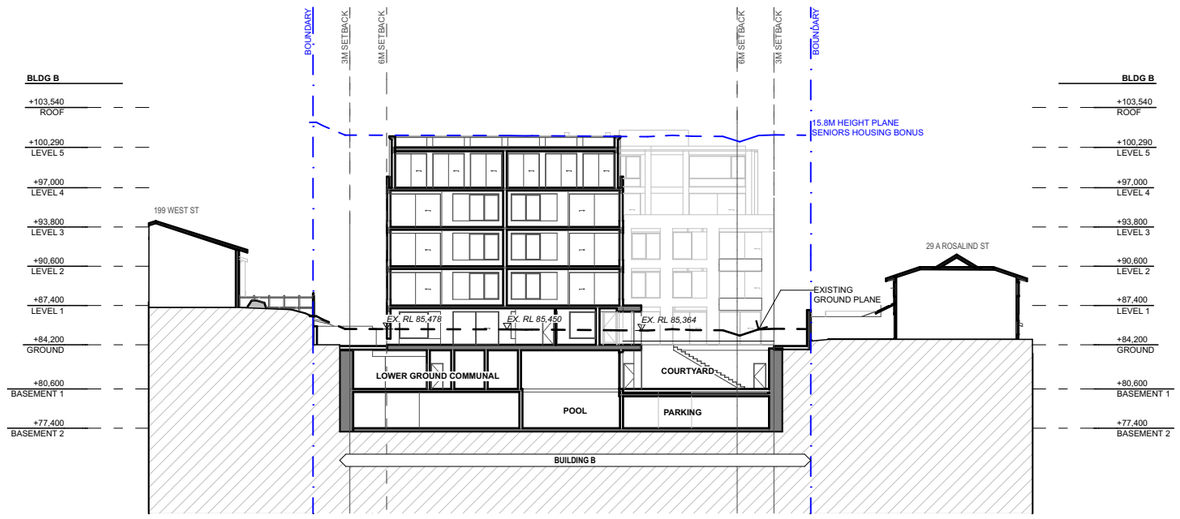
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DRAWING TITLE

SECTIONS

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DA-301	A





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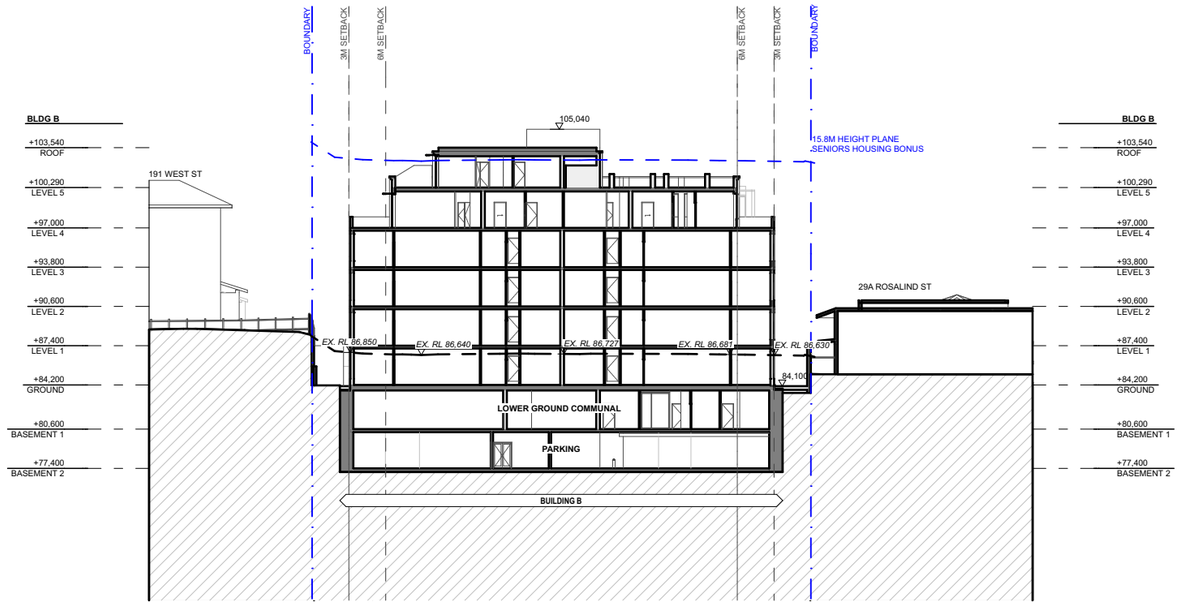
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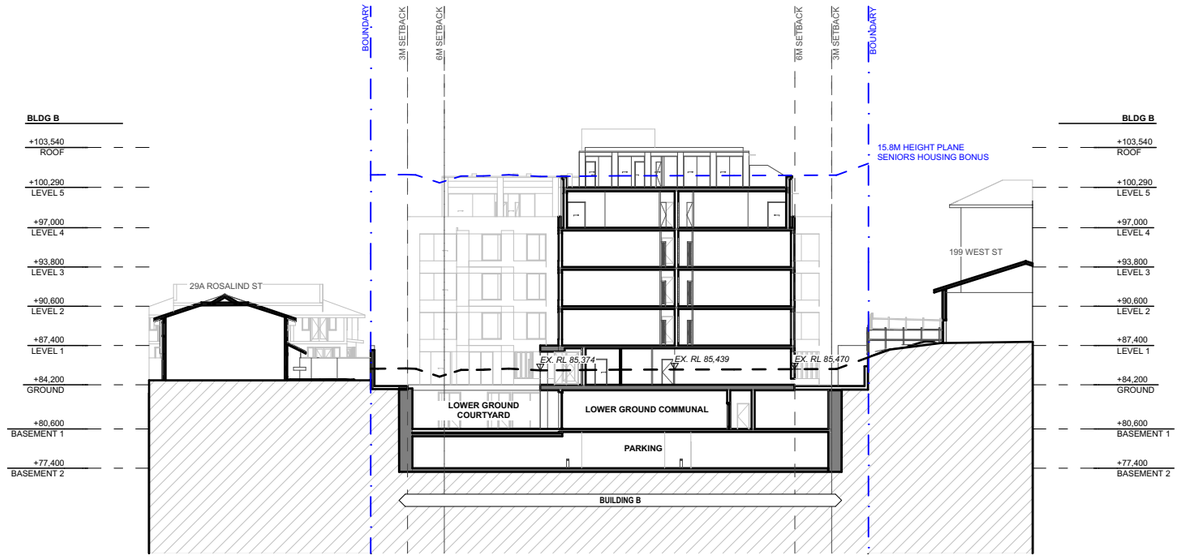
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DRAWING TITLE

SECTIONS

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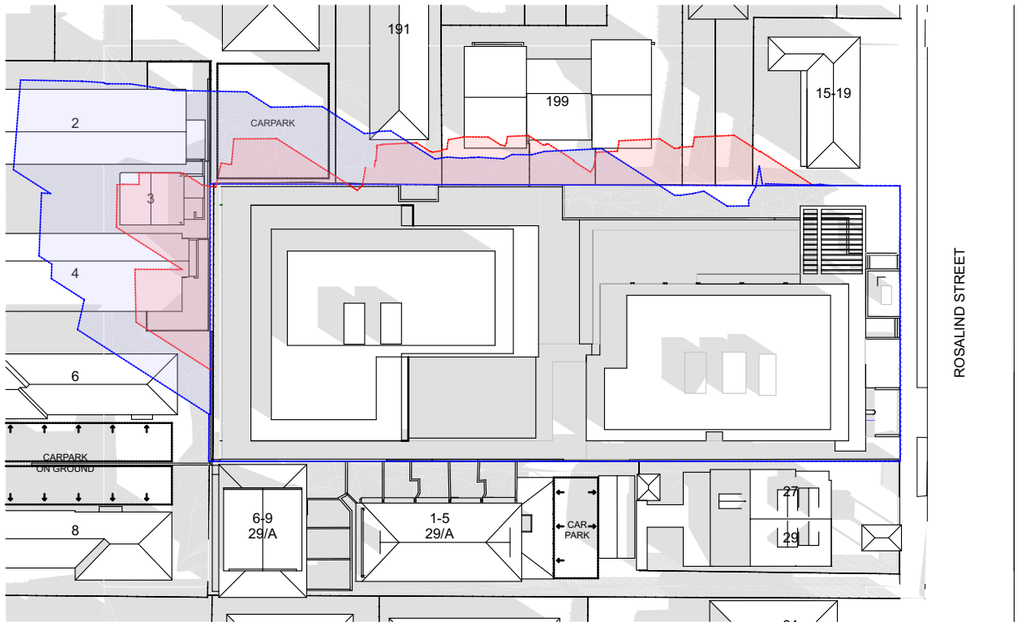
19-23 Rosalind Street, Cammeray, NSW 2062

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25023	15/01/26	KN/WD	MG	1:500	A3 GA	N

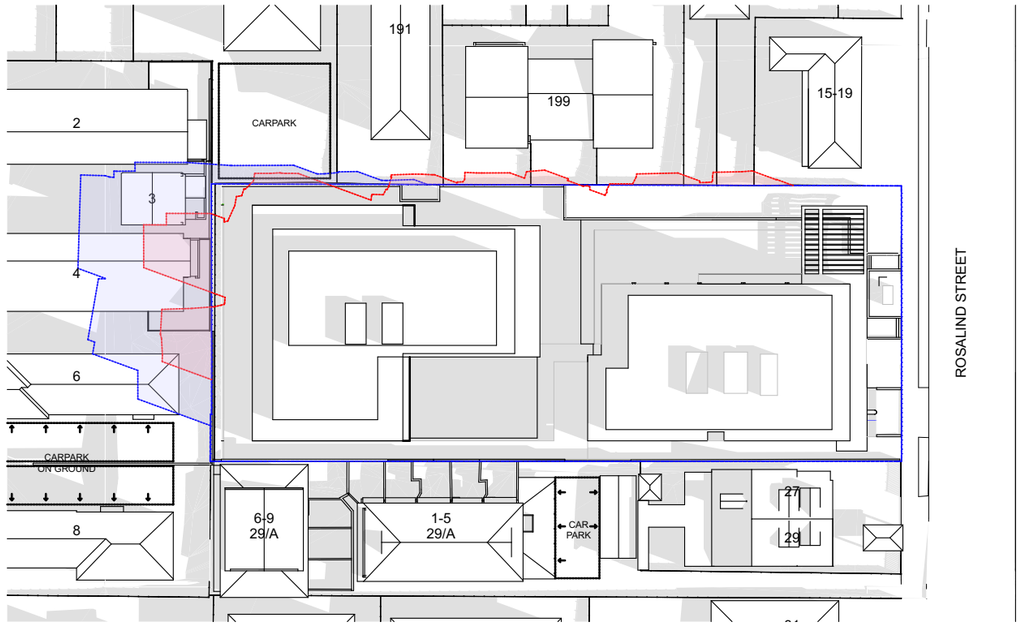
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SECTIONS

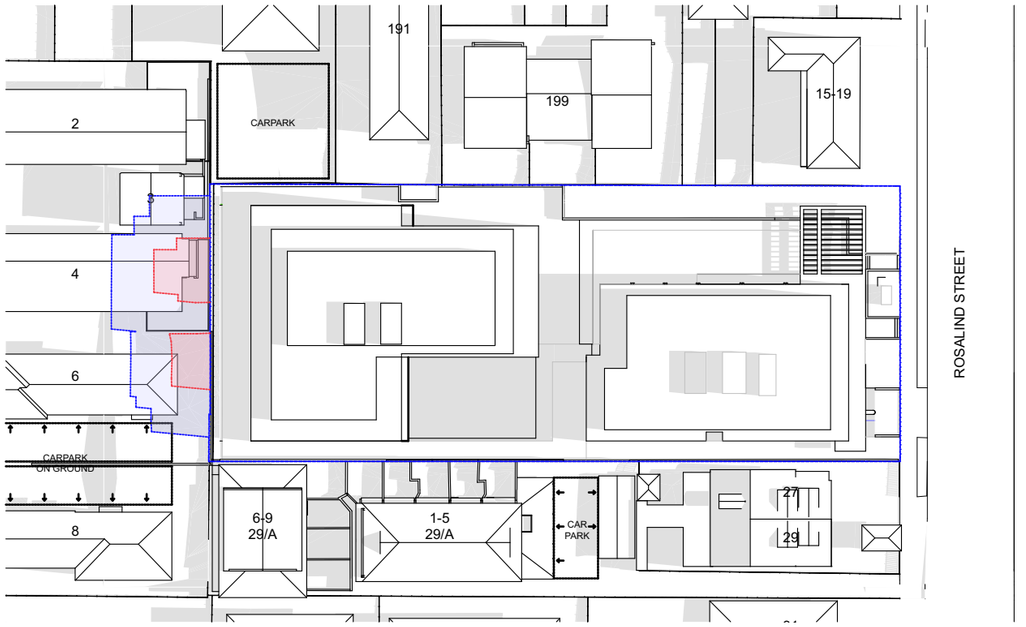
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DA-303	A



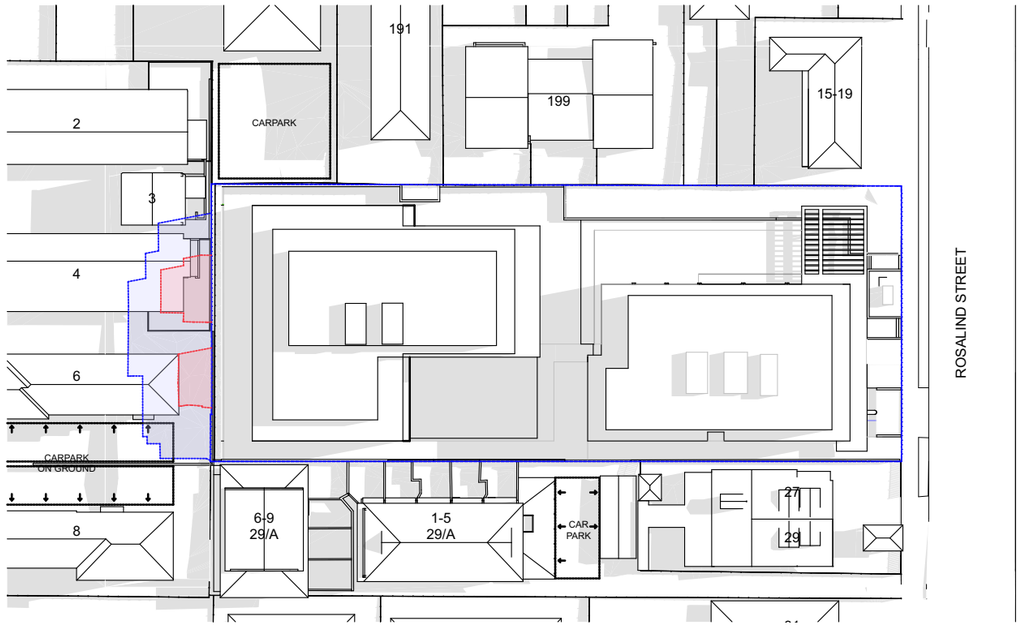
1 9AM - PROPOSED



2 10AM - PROPOSED



3 11AM - PROPOSED



4 12PM - PROPOSED

EXISTING SHADOW

PROPOSED SHADOW

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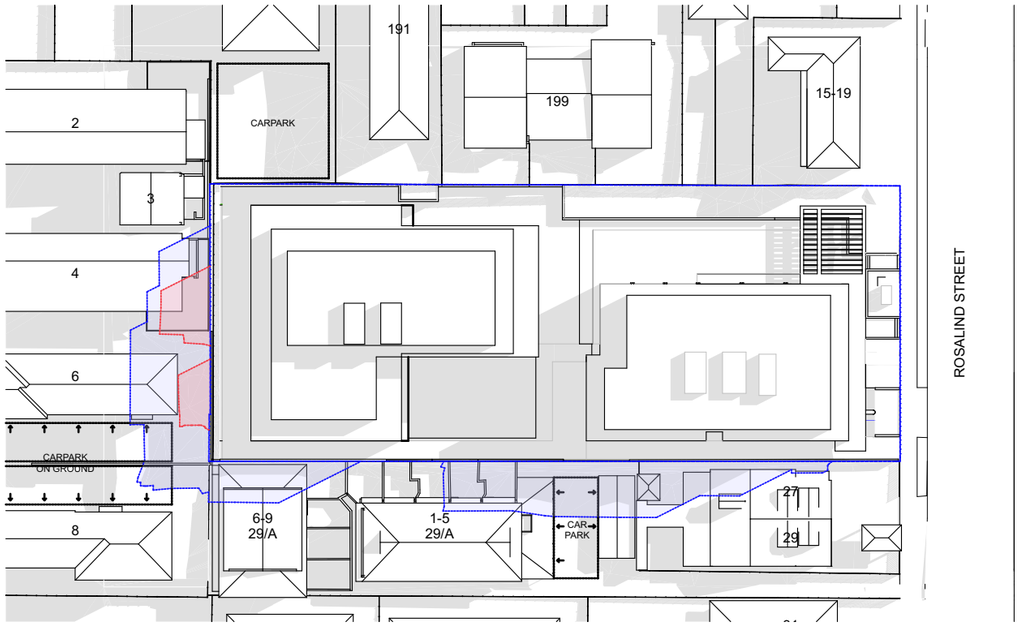
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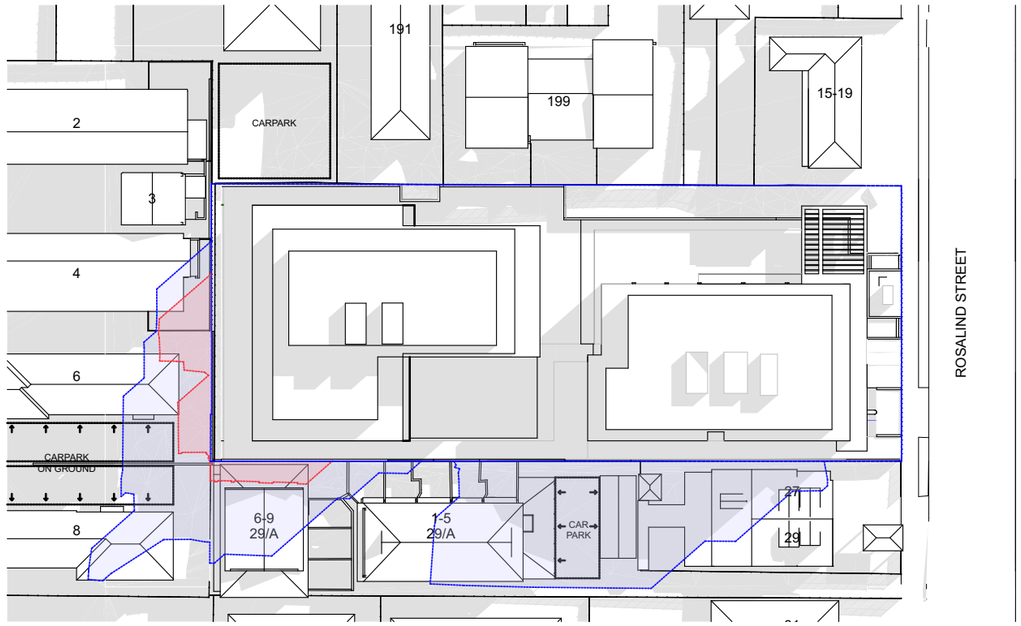
DRAWING TITLE

SHADOW DIAGRAMS 1/2

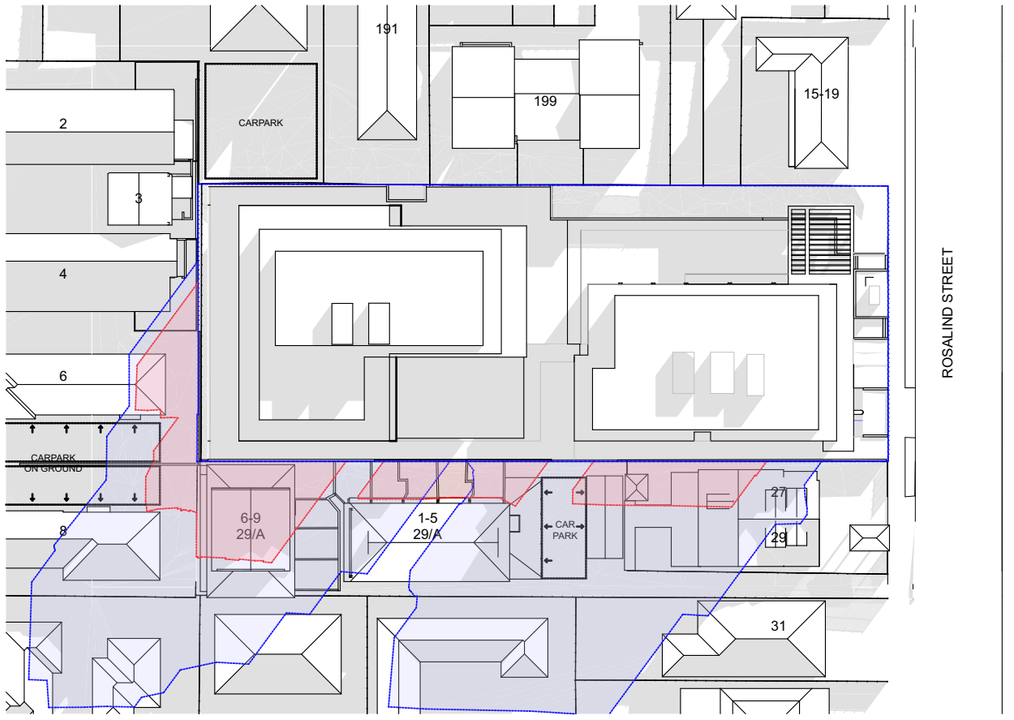
DRAWING NUMBER	REVISION
DA-400	A



1 1PM - PROPOSED



2 2PM - PROPOSED



3 3PM - PROPOSED

EXISTING SHADOW

PROPOSED SHADOW

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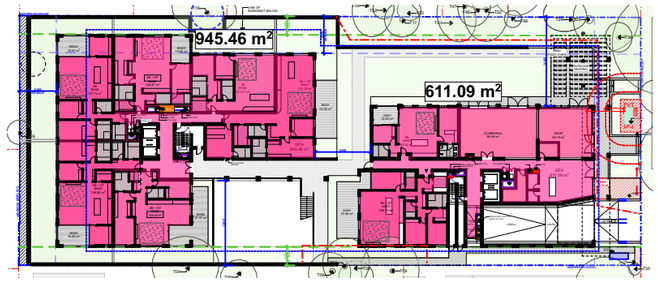
PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG		A3 GA	N

DRAWING TITLE
SHADOW DIAGRAMS 2/2

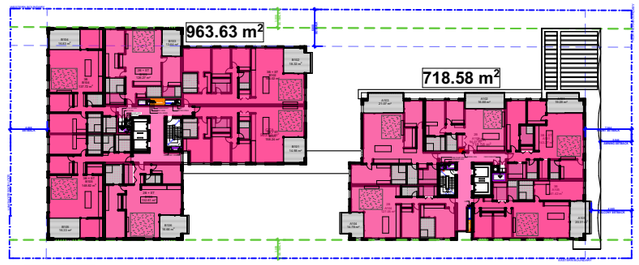
DRAWING NUMBER	REVISION
DA-401	A



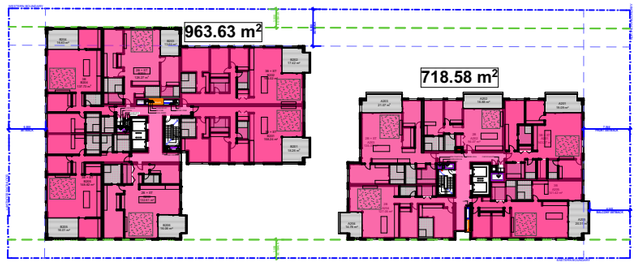
1 - BASEMENT 1
1:1000



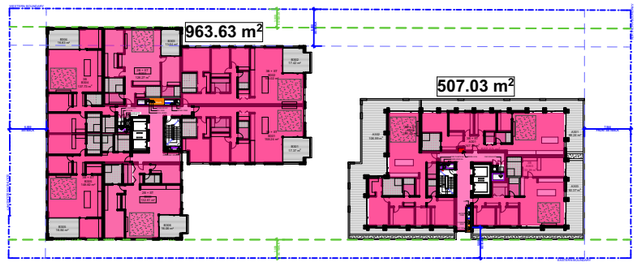
2 - GROUND
1:1000



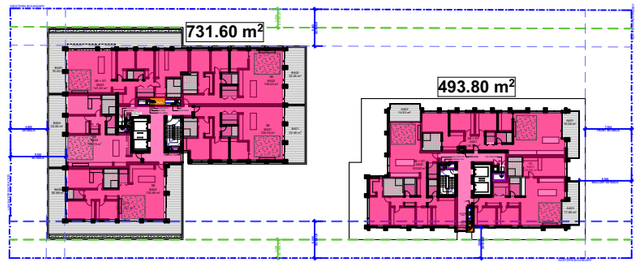
3 - LEVEL 1
1:1000



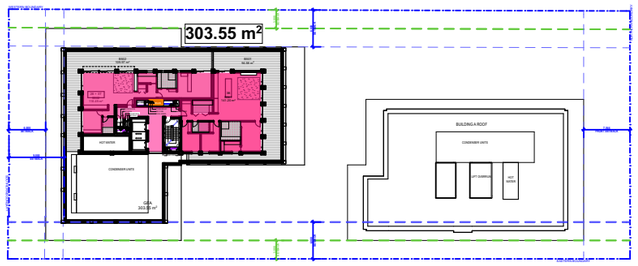
4 - LEVEL 2
1:1000



5 - LEVEL 3
1:1000



6 - LEVEL 4
1:1000



7 - LEVEL 5
1:1000

GROSS FLOOR AREA (M2)		
LEVEL	GFA (m2)	BUILDING ID
BASEMENT 1		
	766.02	B
GROUND		
	611.09	A
	945.46	B
LEVEL 1		
	718.58	A
	963.63	B
LEVEL 2		
	718.58	A
	963.63	B
LEVEL 3		
	507.03	A
	963.63	B
LEVEL 4		
	493.80	A
	731.60	B
LEVEL 5		
	303.55	B
	8,686.60 m²	

GFA

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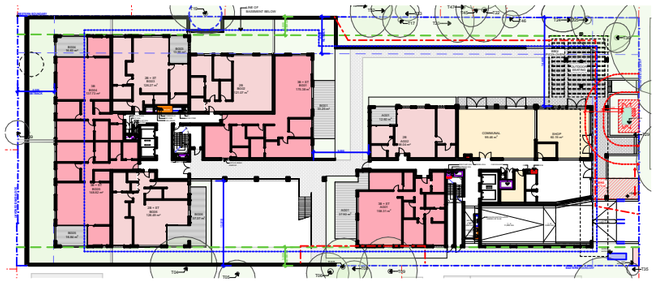
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25023	15/01/26	KN/WD	MG	1:1000, 1:1	A3 GA	N

DRAWING TITLE
GFA AREA SCHEDULES & PLANS

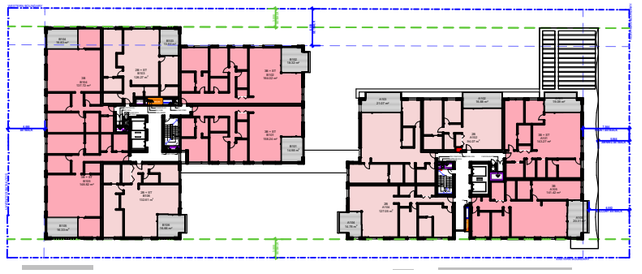
DRAWING NUMBER	REVISION
DA-500	A



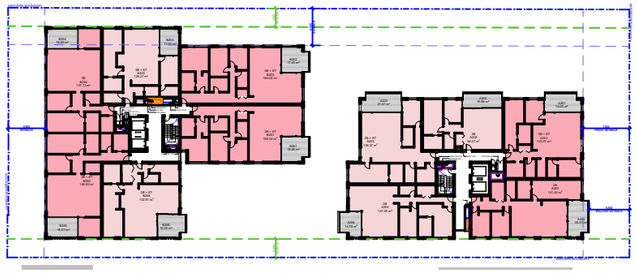
1 - BASEMENT 1
1:1000



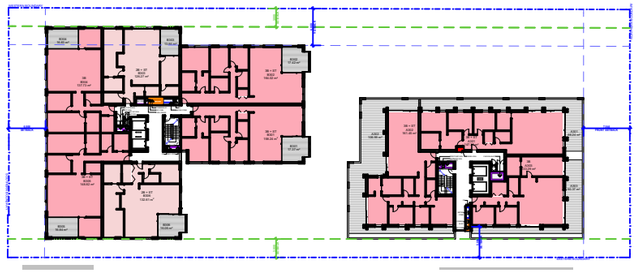
2 - GROUND
1:1000



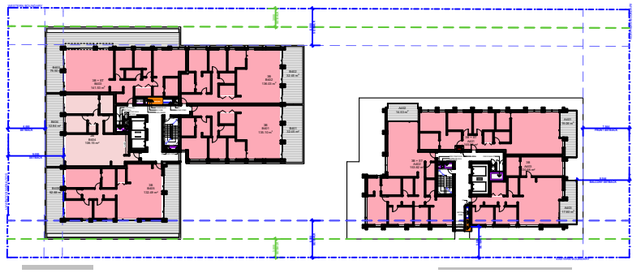
3 - LEVEL 1
1:1000



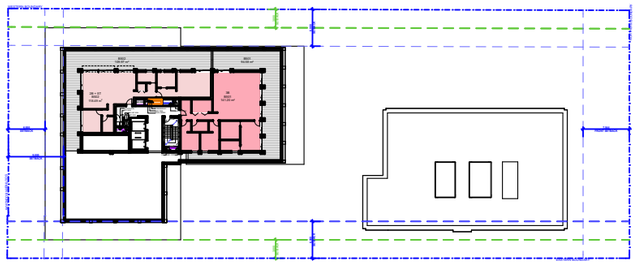
4 - LEVEL 2
1:1000



5 - LEVEL 3
1:1000



6 - LEVEL 4
1:1000



7 - LEVEL 5
1:1000

APARTMENT MIX		
LEVEL	UNIT NUMBER	APT. TYPE
GROUND		
	AG01	3B + ST
	AG02	2B
	BG01	3B + ST
	BG02	2B
	BG03	2B + ST
	BG04	3B
	BG05	3B + ST
	BG06	2B + ST
LEVEL 1		
	A101	3B + ST
	A102	2B
	A103	2B + ST
	A104	2B
	A105	3B
	B101	3B + ST
	B102	3B + ST
	B103	2B + ST
	B104	3B
	B105	3B + ST
	B106	2B + ST
LEVEL 2		
	A201	3B + ST
	A202	2B
	A203	2B + ST
	A204	2B
	A205	3B
	B201	3B + ST
	B202	3B + ST
	B203	2B + ST
	B204	3B
	B205	3B + ST
	B206	2B + ST
LEVEL 3		
	A301	3B + ST
	A302	3B + ST
	A303	3B
	B301	3B + ST
	B302	3B + ST
	B303	2B + ST
	B304	3B
	B305	3B + ST
	B306	2B + ST
LEVEL 4		
	A401	3B + ST
	A402	3B + ST
	A403	3B
	B401	3B
	B402	3B
	B403	3B + ST
	B404	2B
	B405	3B
LEVEL 5		
	B501	3B
	B502	2B + ST
		49

MIX SUMMARY TABLE		
UNIT TYPE	TOTAL UNITS	MIX
1-Bed	0	
2 -Bed	7	14%
2-Bed +Study	11	22%
3 Bed	18	37%
3-Bed+Study	13	27%
4-Bed	0	
TOTAL	49	

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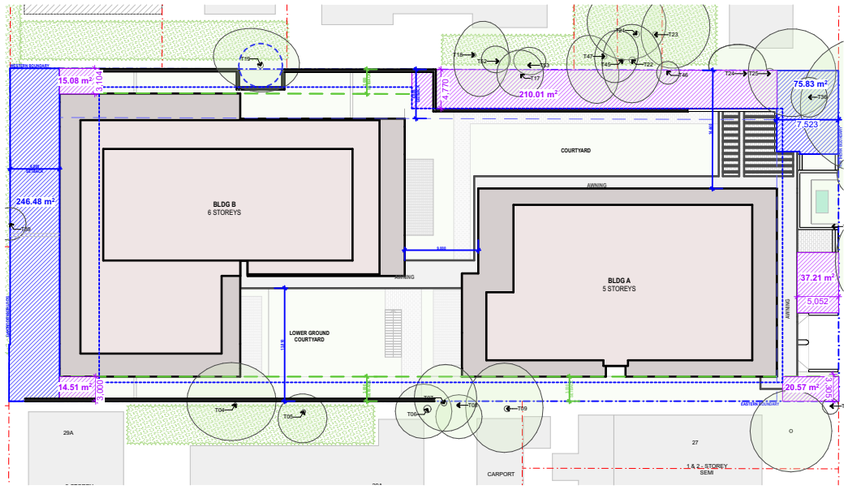
A	15/1/2026	Issue for DA

PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:1000	A3 GA	N

DRAWING TITLE
UNIT MIX

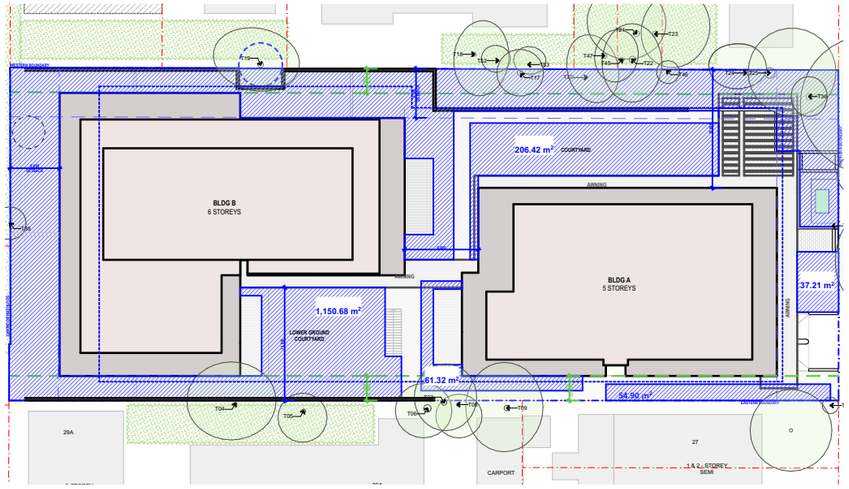
DRAWING NUMBER	REVISION
DA-501	A



DEEP SOIL - WIDTH < 6M

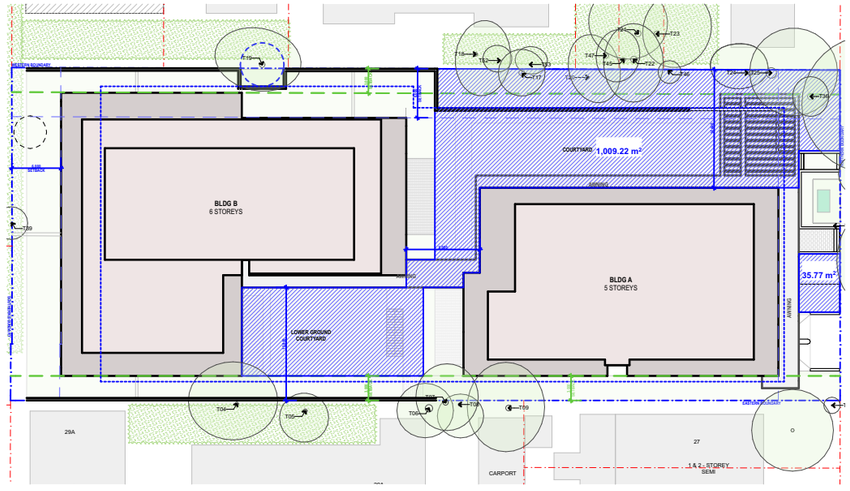
DEEP SOIL - WIDTH > 6M

DEEP SOIL	
DEEP SOIL (M2) *< 6M WIDTH	297.38
DEEP SOIL (M2) *> 6M WIDTH	322.31
TOTAL AREA	619.69 m²
% OF SITE AREA	15%
SITE AREA (M2)	4106
MIN SEPP REQ. (M2)	616M2 (15%)



LANDSCAPED AREA

LANDSCAPED AREA	
TOTAL AREA (M2)	1,510.53
% OF SITE AREA	37%
SITE AREA (M2)	4106
MIN SEPP REQ. (M2)	1232 (30%)



COMMUNAL OPEN SPACE

COMMUNAL OPEN SPACE	
TOTAL AREA (M2)	1,044.99
% OF SITE AREA	25%
SITE AREA (M2)	4106
MIN ADG REQ. (M2)	1027 (25%)

PRIVATE OPEN SPACE			
UNIT TYPE	**RANGE PROVIDED**	**SEPP MIN.**	**COMPLIES**
1 - Bed	N/A	8m2	N/A
2 - Bed	13m2 - 110m2	10m2	YES
3 - Bed	14m2 - 129m2	12m2	YES
4 - Bed	N/A	12m2	N/A

ARCHITECT
CHROFI
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CHOI ROPHA FIGHERA PL ACN 144 714 895 ATF CHOI ROPHA FIGHERA UNIT TRUST T/A CHROFI ABN 22 365 257 197 NOMINATED ARCHITECT TAI ROPHA 6568 STEVEN FIGHERA 6609

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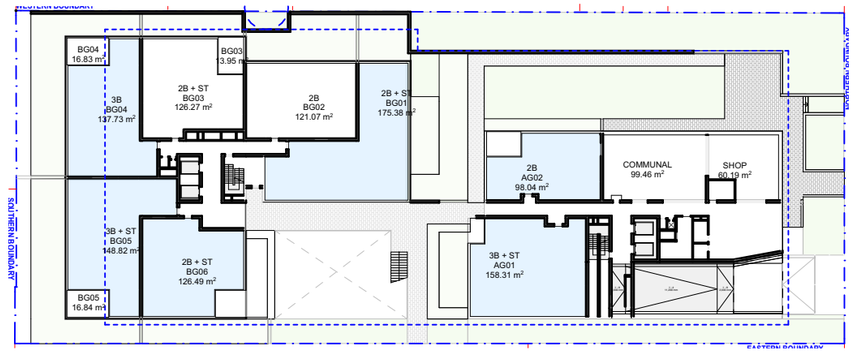
A	15/1/2026	Issue for DA

PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

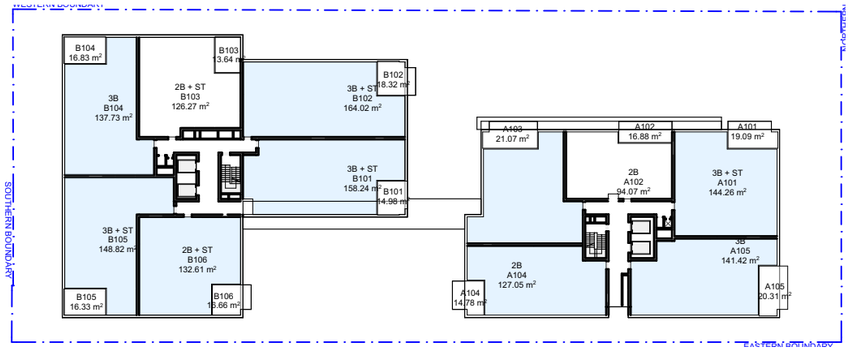
PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:750, 1:1, 1:1.25	A3 GA	N

DRAWING TITLE
COMPLIANCE DIAGRAMS

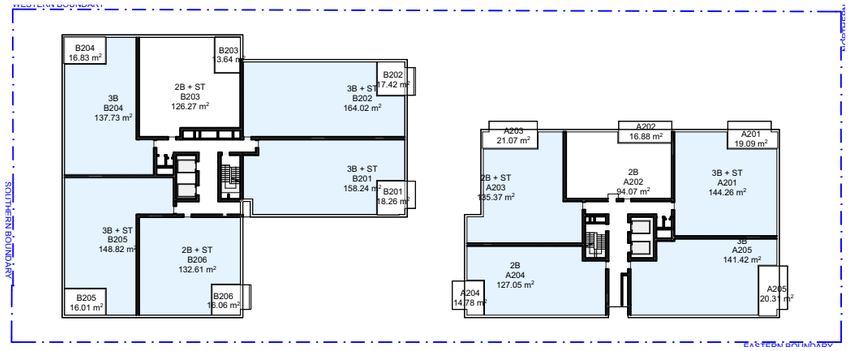
DRAWING NUMBER	REVISION
DA-502	A



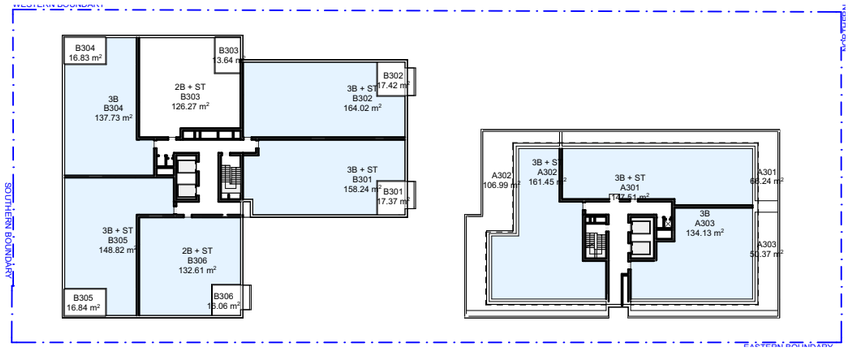
GROUND



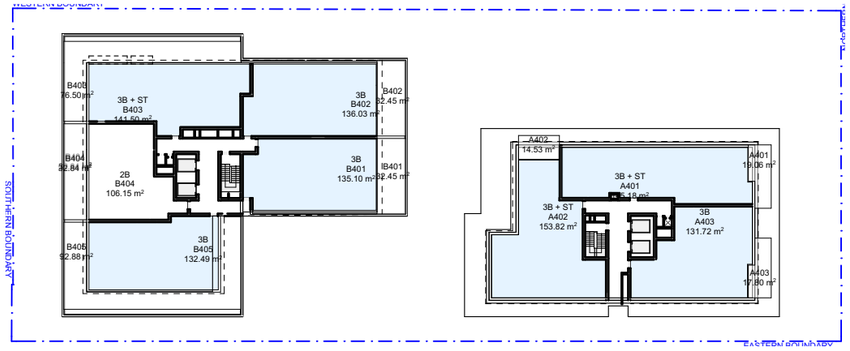
LEVEL 1



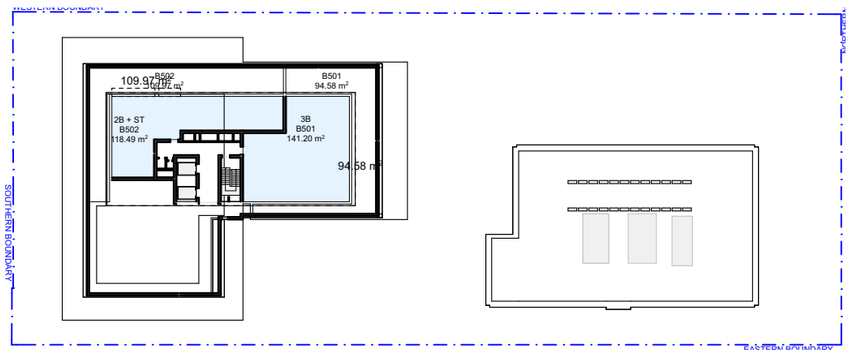
LEVEL 2



LEVEL 3



LEVEL 4



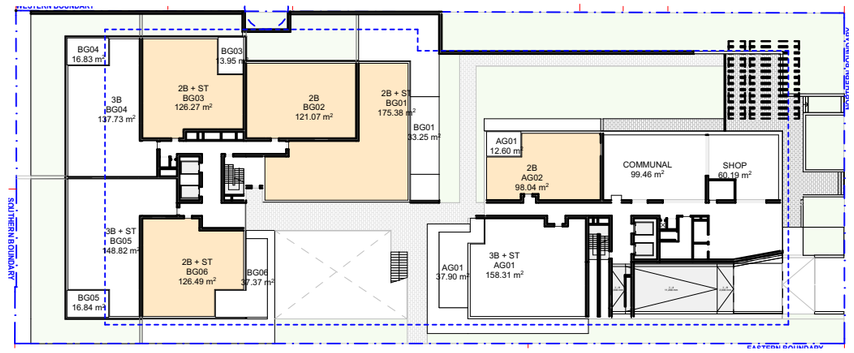
LEVEL 5

ADG - CROSS VENTILATION		
LEVEL	UNIT NUMBER	COMPLIANCE
GROUND		
	AG01	YES
	AG02	YES
	BG01	YES
	BG02	NO
	BG03	NO
	BG04	YES
	BG05	YES
	BG06	YES
8		
LEVEL 1		
	A101	YES
	A102	NO
	A103	YES
	A104	YES
	A105	YES
	B101	YES
	B102	YES
	B103	NO
	B104	YES
	B105	YES
	B106	YES
11		
LEVEL 2		
	A201	YES
	A202	NO
	A203	YES
	A204	YES
	A205	YES
	B201	YES
	B202	YES
	B203	NO
	B204	YES
	B205	YES
	B206	YES
11		
LEVEL 3		
	A301	YES
	A302	YES
	A303	YES
	B301	YES
	B302	YES
	B303	NO
	B304	YES
	B305	YES
	B306	YES
9		
LEVEL 4		
	A401	YES
	A402	YES
	A403	YES
	B401	YES
	B402	YES
	B403	YES
	B404	NO
	B405	YES
8		
LEVEL 5		
	B501	YES
	B502	YES
2		
49		

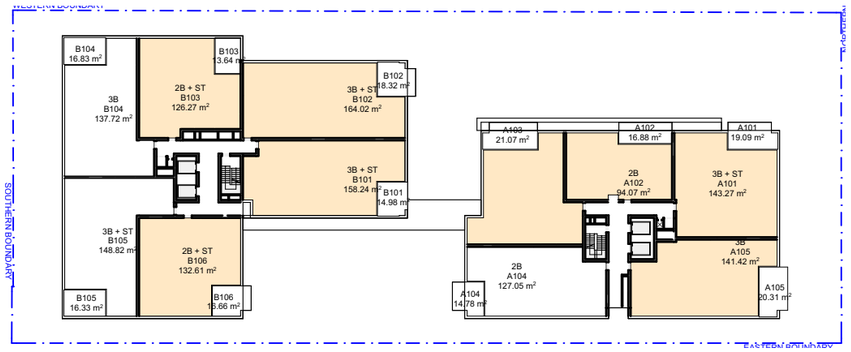
SUMMARY **41/49 (83%)**
COMPLIES ✓

MIN. ADG REQ. 29/49 (60%)

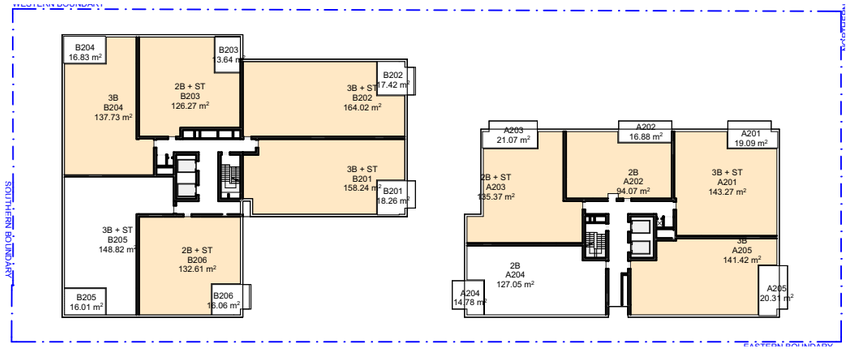
ACHIEVES SOLAR COMPLIANCE AS PER ADG



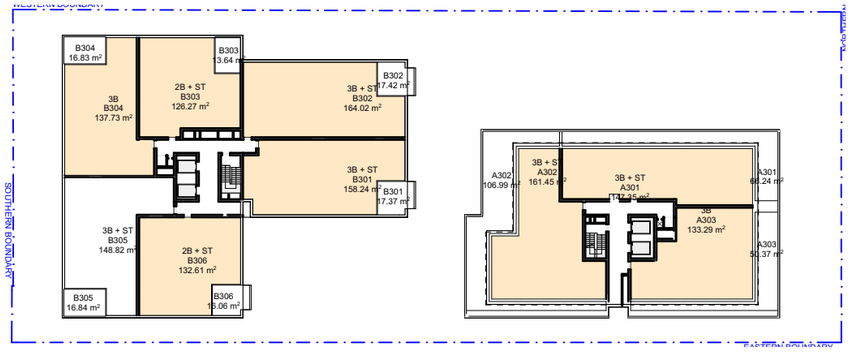
GROUND



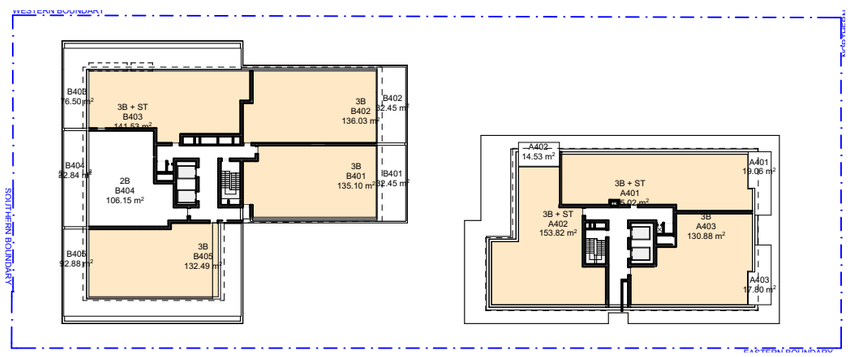
LEVEL 1



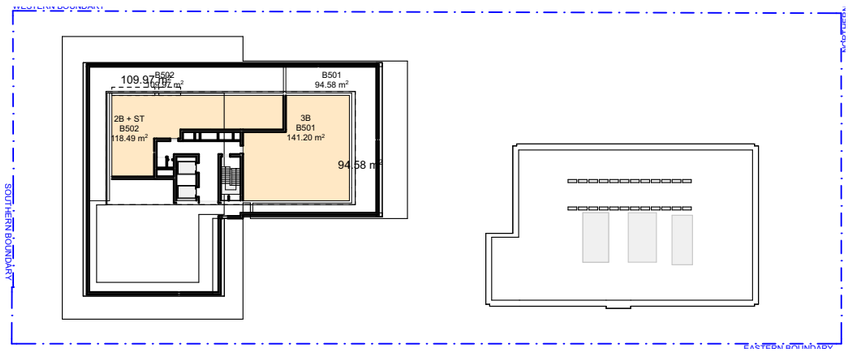
LEVEL 2



LEVEL 3



LEVEL 4



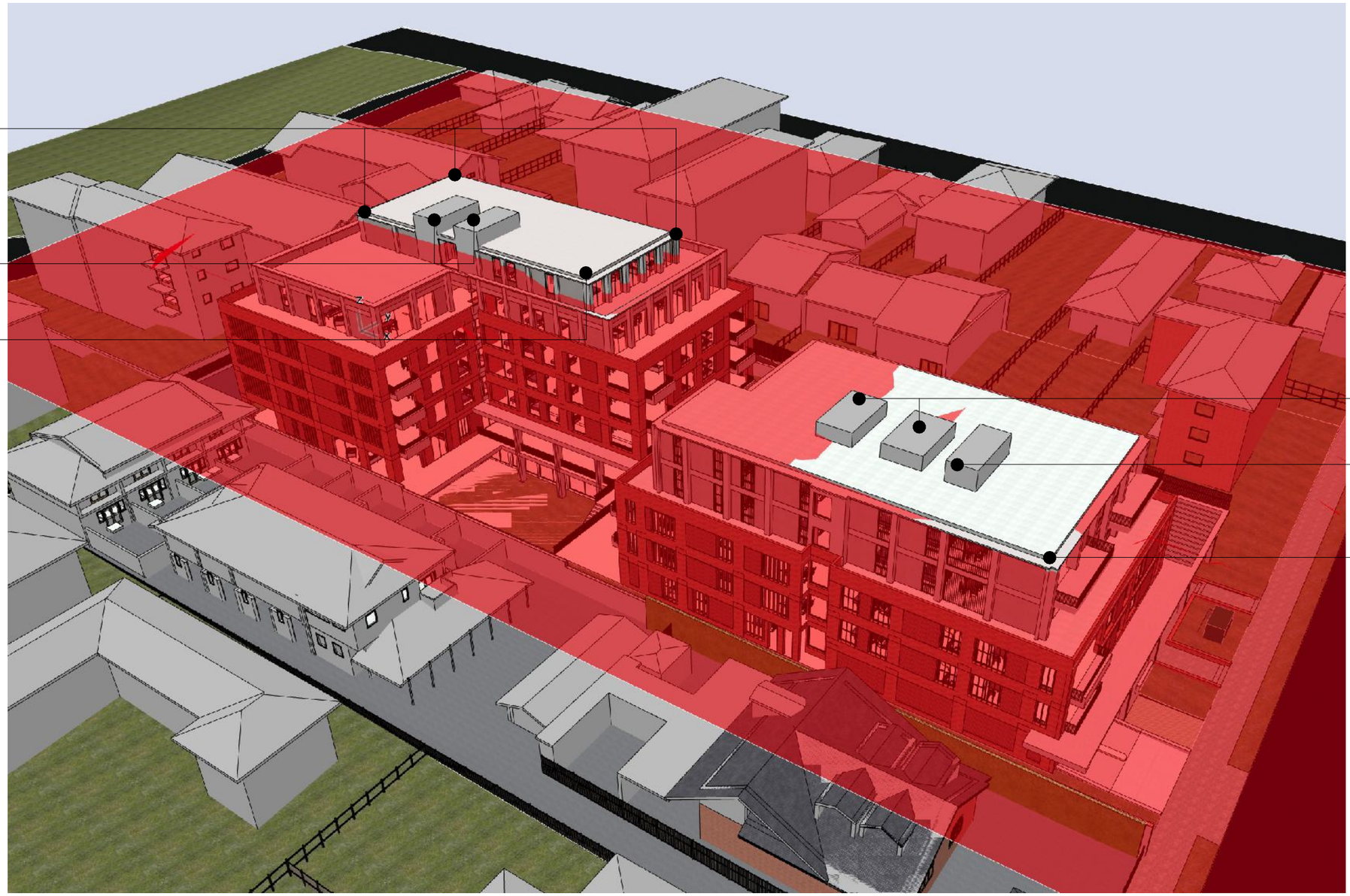
LEVEL 5

ADG - SOLAR		
LEVEL	UNIT NUMBER	COMPLIANCE
GROUND		
	AG01	NO
	AG02	YES
	BG01	YES
	BG02	YES
	BG03	YES
	BG04	NO
	BG05	NO
	BG06	YES
8		
LEVEL 1		
	A101	YES
	A102	YES
	A103	YES
	A104	NO
	A105	YES
	B101	YES
	B102	YES
	B103	YES
	B104	NO
	B105	NO
	B106	YES
11		
LEVEL 2		
	A201	YES
	A202	YES
	A203	YES
	A204	NO
	A205	YES
	B201	YES
	B202	YES
	B203	YES
	B204	YES
	B205	NO
	B206	YES
11		
LEVEL 3		
	A301	YES
	A302	YES
	A303	YES
	B301	YES
	B302	YES
	B303	YES
	B304	YES
	B305	NO
	B306	YES
9		
LEVEL 4		
	A401	YES
	A402	YES
	A403	YES
	B401	YES
	B402	YES
	B403	YES
	B404	NO
	B405	YES
8		
LEVEL 5		
	B501	YES
	B502	YES
2		
49		

SUMMARY **39/49 (79%)**
COMPLIES ✓

MIN. ADG REQ. 34/49 (70%)

ACHIEVES SOLAR COMPLIANCE AS PER ADG



ARCHITECT

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PROJECT

19-23 Rosalind Street, Cammeray

19-23 Rosalind Street, Cammeray, NSW 2062

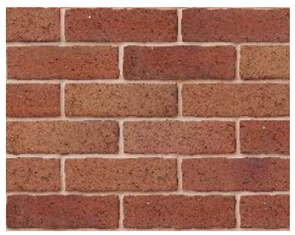
PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG		A3 GA	N

DRAWING TITLE

HEIGHT PLANE DIAGRAM

DRAWING NUMBER	REVISION
DA-505	A





BK-01
RED BRICK
TINTED MORTAR



BK-02
RED BRICK
TINTED MORTAR
LINEAR RECESS



CN-01
CONCRETE
WARM GREY



RN-01
STO RENDER SMOOTH
LIGHT GREY



RN-02
STO RENDER TEXTURED
WARM/DARK GREY

ARCHITECT

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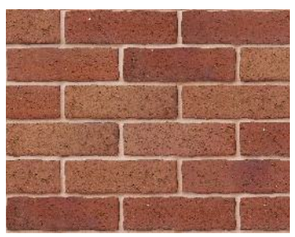
PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:4	A3 GA	N

DRAWING TITLE
STREET VIEW 1

DRAWING NUMBER	REVISION
DA-600	A





BK-01
RED BRICK
TINTED MORTAR



BK-02
RED BRICK
TINTED MORTAR
LINEAR RECESS



CN-01
CONCRETE
WARM GREY



RN-01
STO RENDER SMOOTH
LIGHT GREY



RN-02
STO RENDER TEXTURED
WARM/DARK GREY

ARCHITECT

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A	15/1/2026	Issue for DA

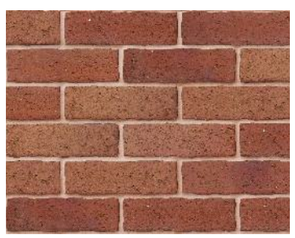
PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:4	A3 GA	N

DRAWING TITLE
STREET VIEW 2

DRAWING NUMBER	REVISION
DA-601	A





BK-01
RED BRICK
TINTED MORTAR



BK-02
RED BRICK
TINTED MORTAR
LINEAR RECESS



CN-01
CONCRETE
WARM GREY



RN-01
STO RENDER SMOOTH
LIGHT GREY



RN-02
STO RENDER TEXTURED
WARM/DARK GREY

NOTE: STREET TREES REMOVED FOR CLARITY

ARCHITECT

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A	15/1/2026	Issue for DA

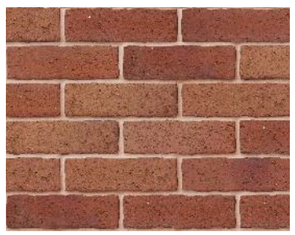
PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:4	A3 GA	N

DRAWING TITLE
STREET VIEW 3

DRAWING NUMBER	REVISION
DA-602	A





BK-01
RED BRICK
TINTED MORTAR



BK-02
RED BRICK
TINTED MORTAR
LINEAR RECESS



CN-01
CONCRETE
WARM GREY



RN-01
STO RENDER SMOOTH
LIGHT GREY



RN-02
STO RENDER TEXTURED
WARM/DARK GREY

ARCHITECT

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A	15/1/2026	Issue for DA

PROJECT
19-23 Rosalind Street, Cammeray
19-23 Rosalind Street, Cammeray, NSW 2062

PROJECT NUMBER	PLOT DATE	DRAWN	CHECKED	SHEET SCALE	SHEET SIZE	NORTH
25023	15/01/26	KN/WD	MG	1:4	A3 GA	N

DRAWING TITLE
COURTYARD VIEW 1

DRAWING NUMBER	REVISION
DA-603	A

APPENDIX F: LAND TITLE INFORMATION

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Title Search NSW

03/10/2025 02:34 PM

Client Reference: DI-E3403

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: CP/SP4657

SEARCH DATE	TIME	EDITION NO	DATE
3/10/2025	2:34 PM	3	26/4/2021

LAND

THE COMMON PROPERTY IN THE STRATA SCHEME BASED ON STRATA PLAN 4657
WITHIN THE PARCEL SHOWN IN THE TITLE DIAGRAM

AT NORTH SYDNEY
LOCAL GOVERNMENT AREA NORTH SYDNEY
PARISH OF WILLOUGHBY COUNTY OF CUMBERLAND
TITLE DIAGRAM SHEET 1 SP4657

FIRST SCHEDULE

THE OWNERS - STRATA PLAN NO. 4657
ADDRESS FOR SERVICE OF DOCUMENTS:
C/- ROBINSON STRATA MANAGEMENT PTY LTD
PO BOX 280
FRESHWATER NSW 2096

SECOND SCHEDULE (4 NOTIFICATIONS)

---

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 ATTENTION IS DIRECTED TO BY-LAWS SET OUT IN SCHEDULE 2 STRATA SCHEMES MANAGEMENT REGULATION 2016
3 Z109334 CHANGE OF BY-LAWS
4 ATTENTION IS DIRECTED TO CLAUSE 3 SCHEDULE 4 STRATA SCHEMES (FREEHOLD DEVELOPMENT) ACT 1973 REGARDING BOUNDARIES BETWEEN LOTS AND COMMON PROPERTY IN STRATA SCHEMES REGISTERED BEFORE 1-7-1974

SCHEDULE OF UNIT ENTITLEMENT (AGGREGATE: 182)

STRATA PLAN 4657

LOT	ENT	LOT	ENT	LOT	ENT	LOT	ENT
1	11	2	11	3	10	4	10
5	14	6	14	7	11	8	11

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9 - 10 10 - 10 11 - 14 12 - 14
13 - 11 14 - 11 15 - 10 16 - 10

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

DI-E3403 PRINTED ON 3/10/2025

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register.
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Historical Title Search NSW

03/10/2025 02:35 PM

Client Reference: DI-E3403

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

3/10/2025 2:35PM

FOLIO: CP/SP4657

First Title(s): OLD SYSTEM

Prior Title(s): VOL 8516 FOL 157

Recorded	Number	Type of Instrument	C.T. Issue
28/4/1986		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
5/8/1986		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
6/8/1990	Z109333	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	
6/8/1990	Z109334	CHANGE OF BY-LAWS	EDITION 1
19/10/2006	AC679767	DEPARTMENTAL DEALING	
18/7/2011	AG373600	DEPARTMENTAL DEALING	
28/3/2012	AG895024	CHANGE OF ADDRESS OF ASSOCIATION/OWNERS CORPORATION	EDITION 2
17/8/2017	AM654528	DEPARTMENTAL DEALING	
26/4/2021	AQ984041	CHANGE OF ADDRESS OF ASSOCIATION/OWNERS CORPORATION	EDITION 3

*** END OF SEARCH ***

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NEW SOUTH WALES

CERTIFICATE OF TITLE

REAL PROPERTY ACT, 1900

TORRENS TITLE
Register

Vol. 8516 Fol. 157

CANCELLED
Issued 1-7-1974
See new edition

Fol. 157

(Page 1) Vol. 8516

I certify that The Proprietors—Strata Plan No. 4657 is the registered proprietor of an Estate in Fee Simple in the common property in the Strata Plan so numbered subject nevertheless to the exceptions, encumbrances and interests recorded hereon.

Registrar General.

ADDRESS FOR SERVICE OF NOTICES: See Strata Plan above referred to.

EXCEPTIONS ENCUMBRANCES AND INTERESTS REFERRED TO

1. Reservations and conditions, if any, contained in the Crown grant of the land comprised in the Strata Plan above referred to.

2. Easements, if any, benefiting or burdening the parcel and restrictions as to user, if any, burdening the parcel and other interests notified on the Strata Plan above referred to by virtue of the provisions of the Conveyancing (Strata Titles) Act, 1961.

SCHEDULE OF UNIT ENTITLEMENT: See Strata Plan above referred to.

Registrar General.

CANCELLED
See new edition issued 23.5.1975
Vol 8516 Fol 157

REGISTRAR GENERAL

NEW CERTIFICATE OF TITLE ISSUED
NO RECORDED DEALINGS AT DATE OF REFERENCE TO
CANCELLED

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

Req:R037434 /Doc:CT 08516-157 CT /Rev:11-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 14:49 /Seq:1 of 4
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E34031 H AND AUTHENTICATED

NEW SOUTH WALES

CERTIFICATE OF TITLE

REAL PROPERTY ACT, 1900

TORRENS TITLE

CANCELLED

Vol. 8516 Fol. 157

Appln . No. 15002 & 45003 OS

Prior Title Vol.10548 Fol.129

SEE AUTO FOLIO

Edition Issued 23-5-1975

I certify that The Proprietors - Strata Plan No. 4657 is the registered proprietor of an Estate in Fee Simple in the common property in the strata scheme relating to the Strata Plan so numbered, within the land herein described, subject nevertheless to the exceptions encumbrances and interests recorded hereon and to the reservations and conditions, if any, contained in the Crown grant.

S

Registrar General.

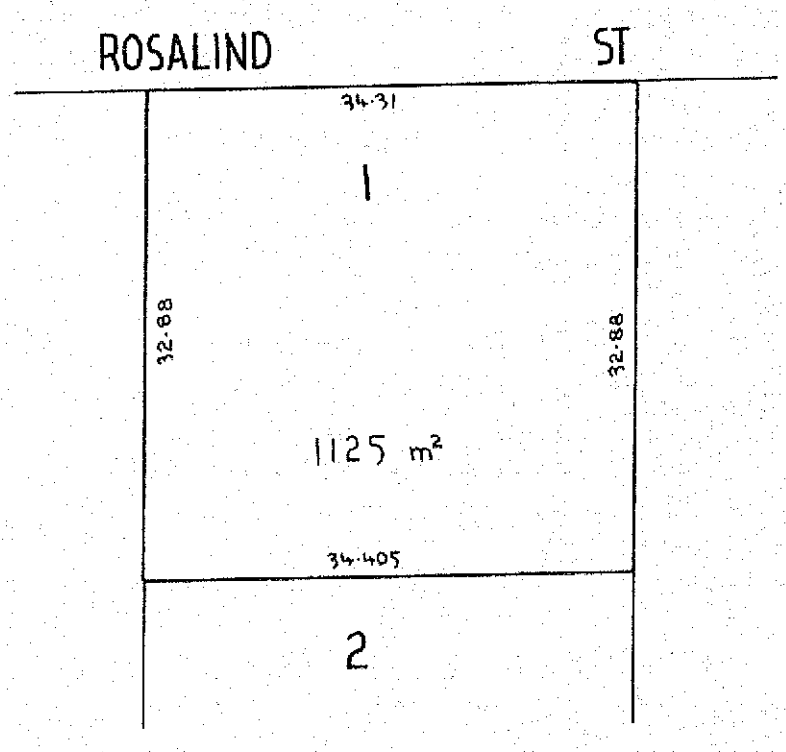
(Page 1) Vol. 8516 Fol. 157

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES – REDUCTION RATIO 1:500



ADDRESS FOR SERVICE OF NOTICES: 19 ROSALIND STREET, NORTH SYDNEY. 2060

LAND REFERRED TO Lot 1 in Deposited Plan 232047 at North Sydney in the Municipality of North Sydney Parish of Willoughby and County of Cumberland being part of Allotment 17 Section 28 granted to Vinzenz Zahel on 27-6-1856 and part of Allotment 18 Section 28 granted to John Glover on 27-6-1856 EXCEPTING THEREOUT the mines of coal reserved by the Crown Grants.

GRY EXCEPTIONS ENCUMBRANCES AND INTERESTS REFERRED TO NIL

SCHEDULE OF UNIT ENTITLEMENT

Aggregate unit entitlement: 182

Lot No.	Strata Plan No.	Unit Entitlement	Lot No.	Strata Plan No.	Unit Entitlement
1	4657	11	10	4657	10
2	"	11	11	"	14
3	"	10	12	"	14
4	"	10	13	"	11
5	"	14	14	"	11
6	"	14	15	"	10
7	"	11	16	"	10
8	"	11			
9	"	10			

RG 2/96 NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED.

Req:R037434 /Doc:CT 08516-157 CT /Rev:11-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 14:49 /Seq:3 of 4 © Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

Req:R037434 /Doc:CT 08516-157 CT /Rev:11-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 14:49 /Seq:4 of 4
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

Vol. 8516 Fol. 157

RECORDINGS (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	

Req:R037874 /Doc:CT 10548-129 CT /Rev:11-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 15:28 /Seq:1 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

[redacted]

FICATE OF TITLE

NEW SOUTH WALES

ERTY ACT, 1900, as amended.

10548129

Appln. Nos. 15002 and 45003

Vol. 10548 Fol. 129

Prior Titles Vol. 6799 Fol. 193
Vol.10442 Fol. 83

Edition issued 4-5-1967.

(Page 1) Vol. 10548 Fol. 129

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

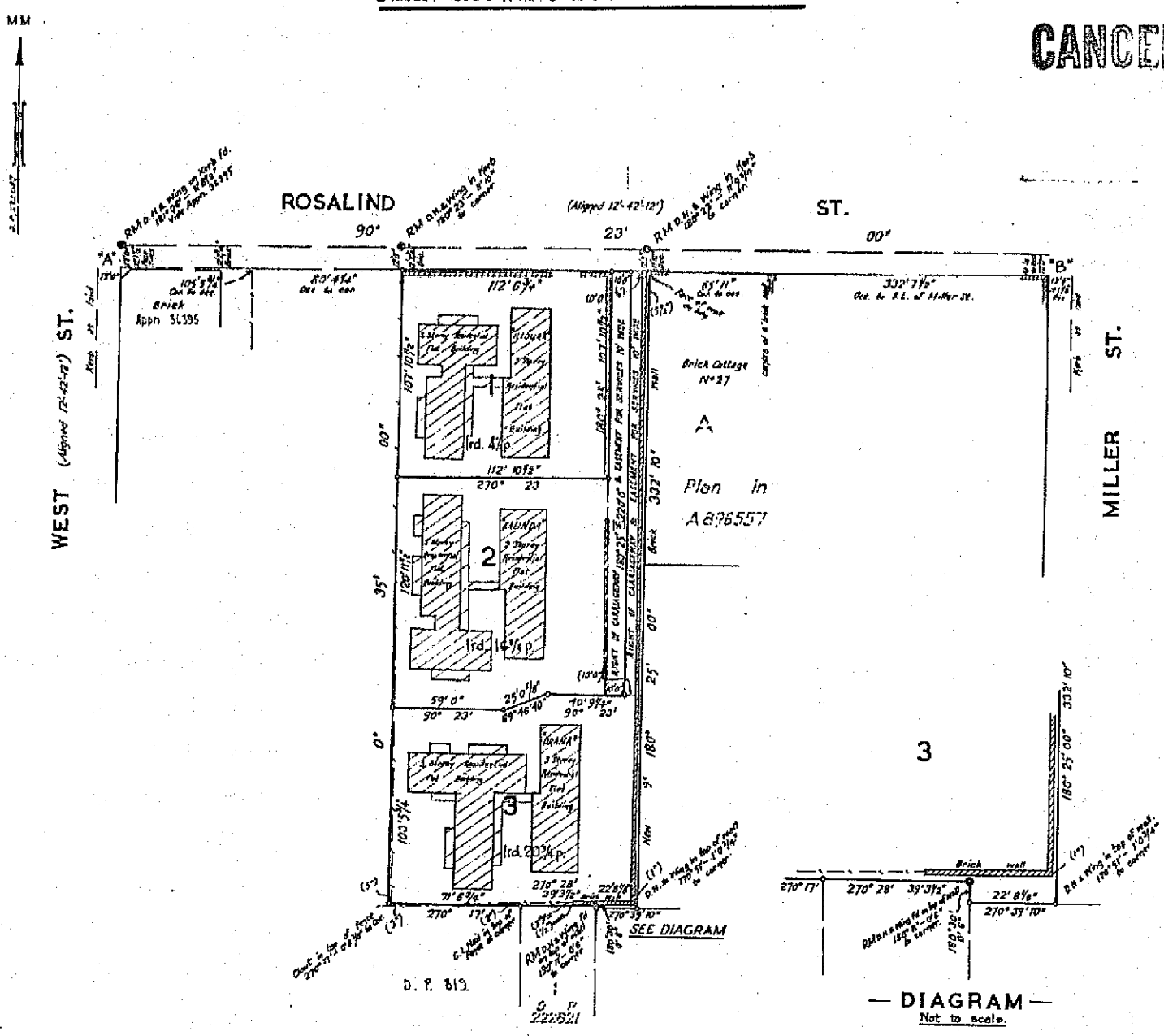
Witness J. Afflick.

Registrar General.

REGISTRAR GENERAL · NEW SOUTH WALES

PLAN SHOWING LOCATION OF LAND

CANCELLED



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 232047 in the Municipality of North Sydney, Parish of Willoughby and County of Cumberland being part of Allotment 17 Section 28 granted to Vinzenz Zahel on 27-6-1856 and part of Allotment 18 Section 28 granted to John Glover on 27-6-1856. EXCEPTING THEREOUT the mines of coal reserved by the Crown Grants.

FIRST SCHEDULE (continued overleaf)

EQUITABLE INVESTMENTS PTY. LIMITED.

SECOND SCHEDULE (continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.

Registrar General.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

PT 1 ,17 V.C.N. Blight, Government Printer

Vol. 10548 Fol 129

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
now C.T. vesting SP 4657 in owners in the Royal Australian Air Force					

This deed is cancelled as to whole

New Certificates of Title have issued on 25.5.1970

for lots in Strata Plan No. 4657 as follows:-

Lots 1 to 16 Vol. 11324 Fols 231 to 246 respectively.

Jan Watson

REGISTRAR GENERAL

REGISTRAR GENERAL N.S.W. SOUTH WALES

SP4657 (B&P) 15/4/

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION		

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

Req:R037874 /Doc:CT 10548-129 CT /Rev:11-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 15:28 /Seq:2 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

Req:R037920 /Doc:CT 06799-193 CT /Rev:09-Aug-2012 /NSW LRS /Prt:03-Oct-2025 15:32 /Seq:1 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

202

Primary Appn. No. 15002

Reference to Last Title

Vol. 2213 Fol. 231

New South Wales.

[CERTIFICATE OF TITLE.]

CANCELLED W

Register Book.

Vol. 6799 Fol. 193

Issued on Transfer No. G10382

WILLIAM BRAMWELL BOOTH ROGER of Crows Nest, Electrician, is now the proprietor of an Estate in Fee Simple subject nevertheless to the reservations and conditions, if any, contained in the Grant s hereinafter referred to, and also subject to such encumbrances, liens, and interests as are notified hereon, in That piece of land situated in the Municipality of North Sydney Parish of Willoughby , and County of Cumberland shown in the plan hereon and therein edged red being part of Allotment 18 of Section 28 granted to John Glover on 27th June 1856 and part of Allotment 17 of Section 28 granted to Vinzenz Zahel on 27th June 1856.

EXCEPTING THEREOUT the mines of coal reserved by the Crown Grants.

In witness whereof I have hereunto signed my name and affixed my Seal, this Thirteenth day of April , 1954.

Signed in the presence of E. G. Poynton

J. Wells

Registrar-General.

REGISTRAR GENERAL NEW SOUTH WALES

Name of the within registered proprietor is now Equitable Investments Pty. Limited See K292497 Entered 12th April 1966

Registrar General

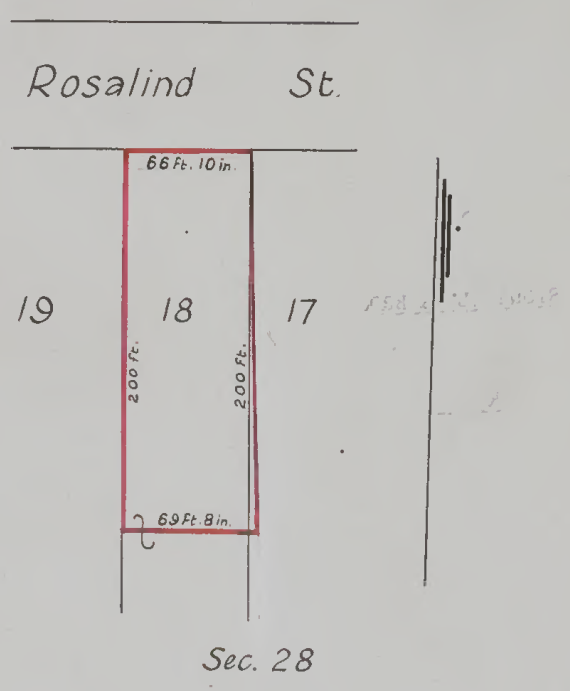
This deed is cancelled as to the whole

New Certificates of Title have issued on H 5 1967

for lots in deposited Plan No. 232047 as follows:-

Lots 1, 2 & 3 Vol. 10548 Fol. 129 to 131 respectively.

REGISTRAR GENERAL



Sec. 28

Area: 1rd. 10per.

Scale: 80 feet to one inch

G 10382 B1

Stardust Investments Pty Limited is now the registered proprietor of the land within described.

See TRANSFER No. H815179 dated 4th April 1961.

Entered 26th June 1961.

REGISTRAR GENERAL

DP 232047 (CT) vesting easement over Lot 2&3

10/4/67

Area of Lot 1 on DP 232047 (Cancelled)

Persons are cautioned against altering or adding to this Certificate or any notification thereon.

50985—2 8.53 K 200C—1 A. H. PENTIFER, GOVERNMENT PRINTER.

Req:R037731 /Doc:CT 10442-082 CT /Rev:16-Dec-2010 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 15:18 /Seq:1 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

[redacted]

CERTIFICATE OF TITLE

NEW SOUTH WALES — PROPERTY ACT, 1900, as amended.

10442082

Application No.45121 (as to part)

Prior Title Vol.691 Fol.174 (as to part)

MA

Vol. 10442 Fol. 82

Edition issued 18-11-1966

CANCELLED W

(Page 1) Vol. 10442 Fol. 82

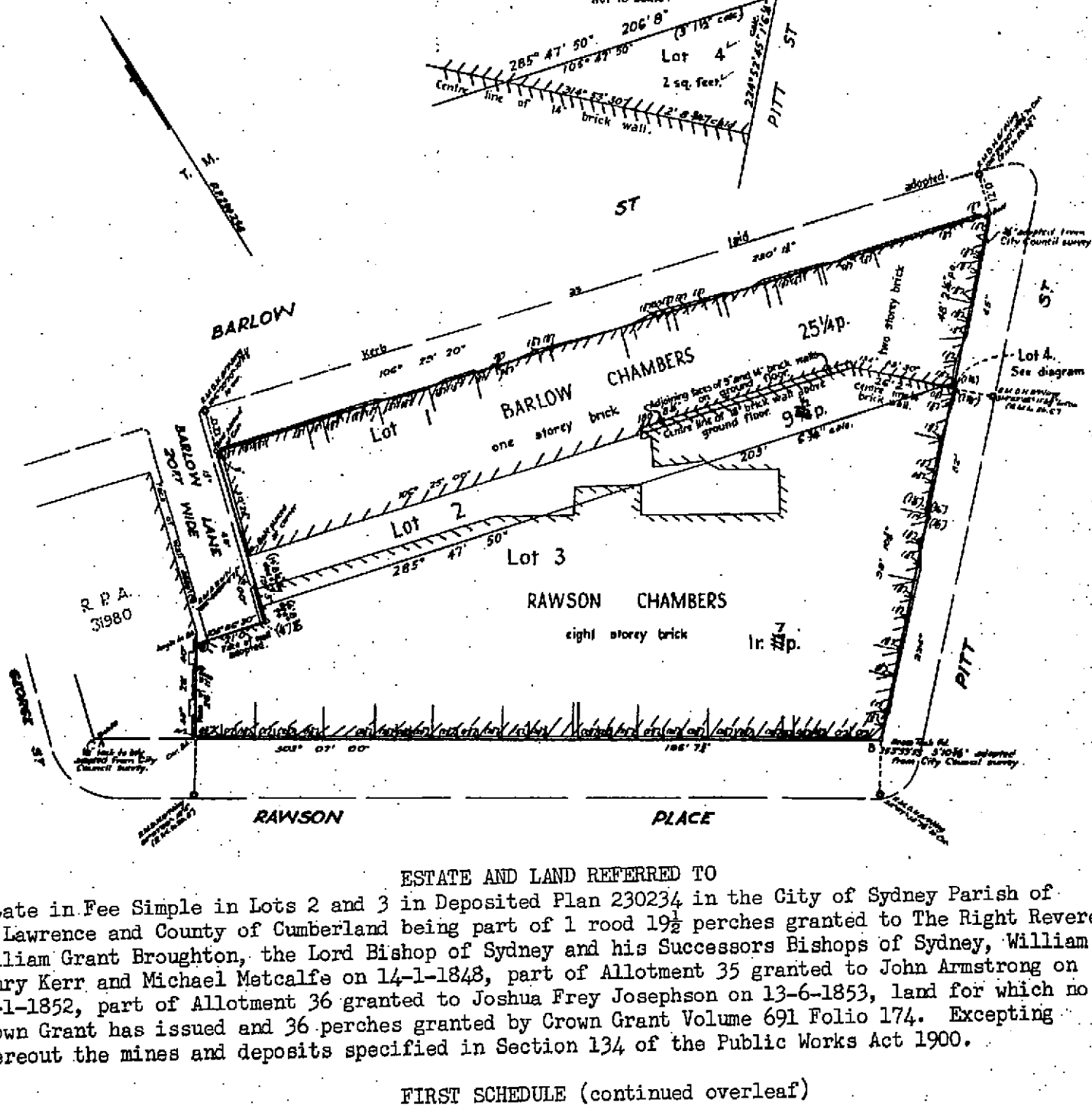
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness D. O'Sullivan.

J. Watson
Registrar General.

REGISTRAR GENERAL NEW SOUTH WALES

PLAN SHOWING LOCATION OF LAND



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lots 2 and 3 in Deposited Plan 230234 in the City of Sydney Parish of St.Lawrence and County of Cumberland being part of 1 rood 19½ perches granted to The Right Reverend William Grant Broughton, the Lord Bishop of Sydney and his Successors Bishops of Sydney, William Henry Kerr and Michael Metcalfe on 14-1-1848, part of Allotment 35 granted to John Armstrong on 23-1-1852, part of Allotment 36 granted to Joshua Frey Josephson on 13-6-1853, land for which no Crown Grant has issued and 36 perches granted by Crown Grant Volume 691 Folio 174. Excepting thereout the mines and deposits specified in Section 134 of the Public Works Act 1900.

FIRST SCHEDULE (continued overleaf)

MINISTER FOR PUBLIC WORKS.

J. Watson
Registrar General.

SECOND SCHEDULE (continued overleaf)

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

PT 1, 17 V.C.N. Blight, Government Printer

Vol. 10442 Fol 82

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT			ENTERED	Signature of Registrar-General
	NATURE	NUMBER	DATE		

REV. FROM SHEORL GEN.
REVOL OF RES. FROM SALE OR LEASE C GAZ 10-5-74 Folio 1774 NLC

SECOND SCHEDULE (continued)

INSTRUMENT			PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION		
NATURE	NUMBER	DATE						
			BY VIRTUE OF NOTIFICATION IN GOVERNMENT GAZETTE DATED 10-5-1974 FOLIO 1774 THE WHOLE OF THE LAND WITHIN DESCRIBED HAS BECOME CROWN LANDS WITHIN THE MEANING OF THE CROWN LANDS ACTS.	20-5-1974				

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

Req:R037731 /Doc:CT 10442-082 CT /Rev:16-Dec-2010 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 15:18 /Seq:2 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

Title Search NSW

03/10/2025 02:36 PM

Client Reference: DI-E3403

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: CP/SP5218

SEARCH DATE	TIME	EDITION NO	DATE
3/10/2025	2:36 PM	14	7/9/2023

LAND

THE COMMON PROPERTY IN THE STRATA SCHEME BASED ON STRATA PLAN 5218
WITHIN THE PARCEL SHOWN IN THE TITLE DIAGRAM

AT NORTH SYDNEY
LOCAL GOVERNMENT AREA NORTH SYDNEY
PARISH OF WILLOUGHBY COUNTY OF CUMBERLAND
TITLE DIAGRAM SHEET 1 SP5218

FIRST SCHEDULE

THE OWNERS - STRATA PLAN NO. 5218
ADDRESS FOR SERVICE OF DOCUMENTS:
C/- STRATA CHOICE ASSOCIATES
LOCKED BAG 1919
ST LEONARDS 1590

SECOND SCHEDULE (6 NOTIFICATIONS)

---

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 DP232047 RIGHT OF CARRIAGEWAY AND EASEMENT FOR SERVICES (SEE K637163) AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
3 DP232047 RIGHT OF CARRIAGEWAY AND EASEMENT FOR SERVICES (SEE K637163) APPURTENANT TO THE LAND ABOVE DESCRIBED AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
4 ATTENTION IS DIRECTED TO CLAUSE 3 SCHEDULE 4 STRATA SCHEMES (FREEHOLD DEVELOPMENT) ACT 1973 REGARDING BOUNDARIES BETWEEN LOTS AND COMMON PROPERTY IN STRATA SCHEMES REGISTERED BEFORE 1-7-1974
5 AN492207 INITIAL PERIOD EXPIRED
6 AT418691 CONSOLIDATION OF REGISTERED BY-LAWS

Direct Info Pty Ltd - ABN 25 160 378 263 an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar-General in accordance with Section 96B (2) of the Real Property Act, 1900.

SCHEDULE OF UNIT ENTITLEMENT (AGGREGATE: 220)

STRATA PLAN 5218

LOT	ENT	LOT	ENT	LOT	ENT	LOT	ENT
1	10	2	10	3	10	4	10
5	10	6	15	7	15	8	11
9	11	10	11	11	11	12	11
13	15	14	15	15	11	16	11

END OF PAGE 1 - CONTINUED OVER

SCHEDULE OF UNIT ENTITLEMENT (AGGREGATE: 220) (CONTINUED)

STRATA PLAN 5218

LOT	ENT	LOT	ENT	LOT	ENT	LOT	ENT
17	11	18	11	19	11		

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Direct Info Pty Ltd - ABN 25 160 378 263 an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar-General in accordance with Section 96B (2) of the Real Property Act, 1900.

Historical Title Search NSW

03/10/2025 02:37 PM

Client Reference: DI-E3403

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

3/10/2025 2:36PM

FOLIO: CP/SP5218

First Title(s): OLD SYSTEM

Prior Title(s): VOL 8518 FOL 218

Recorded	Number	Type of Instrument	C.T. Issue
28/4/1986		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
11/8/1986		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
19/10/2006	AC679767	DEPARTMENTAL DEALING	
1/11/2007	AD529499	CHANGE OF ADDRESS OF ASSOCIATION/OWNERS CORPORATION	EDITION 1
18/7/2011	AG373600	DEPARTMENTAL DEALING	
21/2/2012	AG823377	CHANGE OF ADDRESS OF ASSOCIATION/OWNERS CORPORATION	EDITION 2
30/7/2014	AI775521	CHANGE OF BY-LAWS	EDITION 3
29/7/2016	AK631573	CHANGE OF BY-LAWS	EDITION 4
28/2/2017	AM181333	CONSOLIDATION/CHANGE OF BY-LAWS	EDITION 5
11/7/2018	AN492207	CONSOLIDATION/CHANGE OF BY-LAWS	EDITION 6
29/8/2018	AN668765	CONSOLIDATION/CHANGE OF BY-LAWS	EDITION 7
9/9/2019	AP520069	CONSOLIDATION/CHANGE OF BY-LAWS	EDITION 8

Direct Info Pty Ltd - ABN 25 160 378 263 an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar-General in accordance with Section 96B (2) of the Real Property Act, 1900.

27/2/2020 AP928139 CONSOLIDATION/CHANGE OF BY-LAWS EDITION 9

4/12/2020 AQ611042 CONSOLIDATION/CHANGE OF BY-LAWS EDITION 10

19/10/2021 AR527263 CONSOLIDATION/CHANGE OF BY-LAWS EDITION 11

END OF PAGE 1 - CONTINUED OVER

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
3/10/2025 2:36PM

Recorded	Number	Type of Instrument	C.T. Issue
21/9/2022	AS488522	CONSOLIDATION/CHANGE OF BY-LAWS	EDITION 12
3/2/2023	AS831898	CONSOLIDATION/CHANGE OF BY-LAWS	EDITION 13
7/9/2023	AT418691	CONSOLIDATION/CHANGE OF BY-LAWS	EDITION 14

*** END OF SEARCH ***

Direct Info Pty Ltd - ABN 25 160 378 263 an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar-General in accordance with Section 96B (2) of the Real Property Act, 1900.

NEW SOUTH WALES

CERTIFICATE OF TITLE

REAL PROPERTY ACT, 1900

TORRENS TITLE
Register

Vol. 8516 Fol. 218

CANCELLED
Issued 1-7-1974
See new edition

Fol. 218

I certify that The Proprietors—Strata Plan No. 4718 is the registered proprietor of an Estate in Fee Simple in the common property in the Strata Plan so numbered subject nevertheless to the exceptions, encumbrances and interests recorded hereon.

Registrar General.

(Page 1) Vol. 8516

ADDRESS FOR SERVICE OF NOTICES: See Strata Plan above referred to.

EXCEPTIONS ENCUMBRANCES AND INTERESTS REFERRED TO

1. Reservations and conditions, if any, contained in the Crown grant of the land comprised in the Strata Plan above referred to.

2. Easements, if any, benefiting or burdening the parcel and restrictions as to user, if any, burdening the parcel and other interests notified on the Strata Plan above referred to by virtue of the provisions of the Conveyancing (Strata Titles) Act, 1961.

SCHEDULE OF UNIT ENTITLEMENT: See Strata Plan above referred to.

Registrar General.

CANCELLED

See new edition issued 2-5-1975

Vol 8516 Fol 218

REGISTRAR GENERAL

Draft if prepared
No dealing to be regd.
without ref to S D B.

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

Req:R038120 /Doc:CT 08516-218 CT /Rev:11-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 15:54 /Seq:1 of 3
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403 AND AUTHENTICATED

NEW SOUTH WALES

CERTIFICATE OF TITLE

REAL PROPERTY ACT, 1900

TORRENS TITLE

CANCELLED

Register

Vol. 8516 Fol. 218

Appln. No.3871 OS

Prior Titles Vol. 2597 Fol. 5
Vol.11166 Fol.211

SEE AUTO FOLIO

Edition Issued 30-4-1975

8516 Fol. 218

(Page 1) Vol.

I certify that The Proprietors - Strata Plan No. 4718 is the registered proprietor of an Estate in Fee Simple in the common property in the strata scheme relating to the Strata Plan so numbered, within the land herein described, subject nevertheless to the exceptions encumbrances and interests recorded hereon and to the reservations and conditions, if any, contained in the Crown grant.

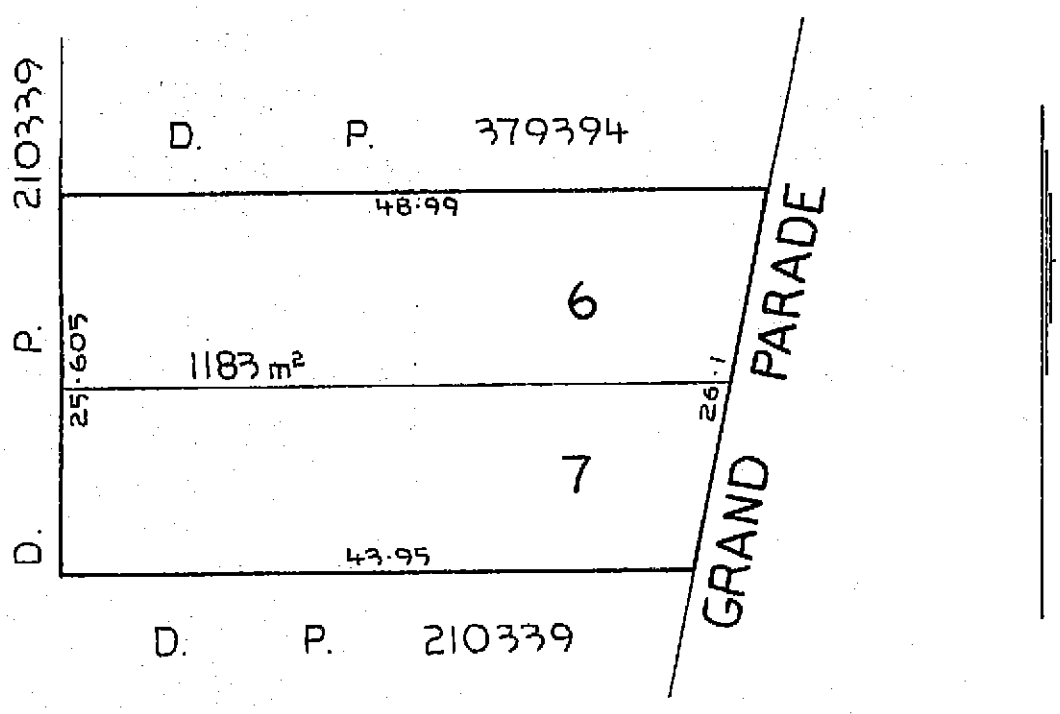
S

Registrar General.

REGISTRAR GENERAL · NEW SOUTH WALES

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES – REDUCTION RATIO 1:500



ADDRESS FOR SERVICE OF NOTICES: 145-146 GRAND PARADE, BRIGHTON, 2216.

LAND REFERRED TO Lots 6 and 7 in Deposited Plan 6530 at Brighton in the Municipality of Rockdale Parish of St.George and County of Cumberland being part of Portion 46 granted to William Henry Harding on 9-2-1854.

GRY EXCEPTIONS ENCUMBRANCES AND INTERESTS REFERRED TO NIL.

SCHEDULE OF UNIT ENTITLEMENT

Aggregate unit entitlement: 14,455

Lot No.	Strata Plan No.	Unit Entitlement
1	4718	1,085
2	"	1,060
3	"	1,300
4	"	1,330
5	"	1,095
6	"	1,070
7	"	1,315
8	"	1,340
9	"	1,105
10	"	1,080
11	"	1,325
12	"	1,350

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

RG 2/96 NOTE: E

Req:R038120 /Doc:CT 08516-218 CT /Rev:11-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 15:54 /Seq:2 of 3 © Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

Req:R038120 /Doc:CT 08516-218 CT /Rev:11-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 15:54 /Seq:3 of 3
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

Vol. 8516 Fol. 218

AFTER REGN
REFER ALL
DLGS & PLANS
TO ST30

RECORDINGS (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	

Req:R038141 /Doc:CT 02597-005 CT /Rev:31-Jul-2012 /NSW LRS /Prt:03-Oct-2025 15:57 /Seq:1 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

CERTIFICATE OF TITLE.

(C.)

New South Wales.

CANCELLED W

[Appn No. 3871]
[Reference to last Certificate]
[Vol. 2244 Folio 75]

REGISTER BOOK,
VOL. 2597 FOLIO 5

Hughie Ernest Deaman, of Newtown Contractor Transferee under Instrument of Transfer from David Thackel N°A 192296 is now the proprietor of an Estate in Fee Simple, subject nevertheless to the reservations and conditions, if any, contained in the Grant hereinafter referred to, and also subject to such encumbrances, liens, and interest as are notified hereon, in That piece of land situated at Brighton-le-Sands in the Municipality of Rockdale, Parish of St George, and County of Cumberland containing Twenty four perches or thereabouts, as shown on the Plan hereon, and therein edged red, being Lot 6 on a Plan deposited in the Land Titles Office, Sydney, No. 6530 and part of Portion 46 delineated in the Public Map of the said Parish in the Department of Lands originally granted to William Henry Harding by Crown Grant dated the Ninth day of February one thousand eight hundred and fifty four

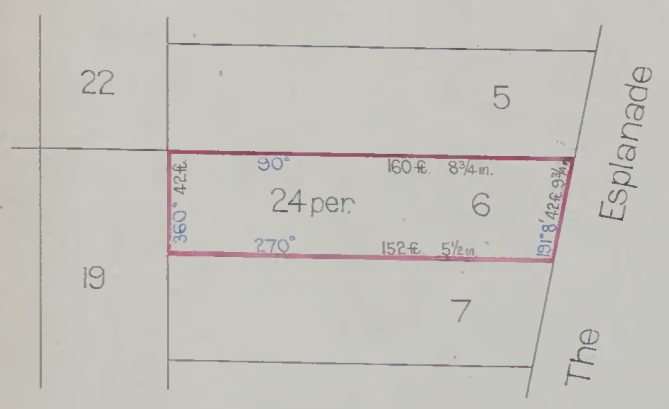
In witness whereof, I have hereunto signed my name and affixed my Seal, this Eleventh day of August one thousand nine hundred and fifteen

Signed the 11th day of August 1915,
in the presence of

Deputy Registrar General.

REGISTRAR GENERAL NEW SOUTH WALES

NOTIFICATION REFERRED TO.



SCALE: 60 ft. to one inch

No. A 210649 TRANSFER dated 5th May 1917
from the said Hughie Ernest Deaman
to Ernest Alfred Turtle of Newtown
Estate agent
of the land within described
Produced and entered 10th May 1917
at 46 mts pt 10 o'clock in the fore noon
REGISTRAR GENERAL

No. B 557600 TRANSFER dated 10th August 1927
from the said Ernest Alfred Turtle &
Janet Mc Leish of Leichhardt
(Married Woman) wife of Duncan
Mc Leish
of the land within described
Produced and entered 7th September 1927
at 45 mts pt 2 o'clock in the afternoon.
REGISTRAR GENERAL

TE
557600

A192296 RED

Req:R038141 /Doc:CT 02597-005 CT /Rev:31-Jul-2012 /NSW LRS /Prt:03-Oct-2025 15:57 /Seq:2 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

No. B 863051 TRANSFER dated 3rd August 1929
from the said Janet McLeish to Frederick James Farmer Junior of Brighton-le-Sands Publican
of the land within described
Produced and entered 12th August 1929
at 12 mts past 3 o'clock in the after noon.
REGISTRAR GENERAL

No. G114006 MORTGAGE dated 8th August 1929
from the said Frederick James Farmer Junior to The Commercial Bank of Australia Limited
Produced 20th July 1954 and entered 20th July 1954
at 41 mts past 10 o'clock in the fore noon.
J. Wells
REGISTRAR GENERAL.

No. G146370 APPLICATION BY TRANSMISSION
Gladys May Farmer of Cronulla Widow and Frederick James Farmer Senior of Wentworth Hotelkeeper as joint tenants
Proprietors of the land within described in pursuance of the above
Application Produced 6th September 1954 and
entered 15th October 1954
at 12 o'clock in the noon
J. Wells
REGISTRAR GENERAL.

No. G146371 CAVEAT dated 6th September 1954
by the Registrar General.
Produced 6th September 1954 and
entered 15th October 1954
at 12 o'clock in the noon.
J. Wells
REGISTRAR GENERAL

No. G167469 NOTICE of DEATH. Proof having been furnished to me of the death of the said Frederick James Farmer Senior
the surviving Joint Tenant Gladys May Farmer
is now registered sole proprietor of the land within described
Produced and entered 15th October 1954
at 12 o'clock in the noon.
J. Wells
REGISTRAR GENERAL.

No. G188330 DISCHARGE of within mortgage
G114006 dated 13th October 1954
Produced 9th November 1954 and entered 29th March 1955
at 12 o'clock in the noon.
J. Wells
REGISTRAR GENERAL.

The within Caveat No. G146371 is hereby withdrawn
Dated 29th March 1955
J. Wells
REGISTRAR GENERAL.

No. G188331 TRANSFER dated 15th October 1954
from the said Gladys May Farmer to Douglas Norman Hammond of Blakehurst, Manufacturer and Muriel Grace Hammond his wife as joint tenants the land within described
Produced 9th November 1954 and entered 29th March 1955
at 12 o'clock in the noon.
J. Wells
REGISTRAR GENERAL.

No. G315049 TRANSFER dated 16th June 1955
from the said Douglas Norman Hammond and Muriel Grace Hammond to Reginald Dyer of Lakemba, Storekeeper
of the land within described
Produced and entered 17th June 1955
at 32 mts past 3 o'clock in the after noon.
J. Wells
REGISTRAR GENERAL.

Boysall Pty. Limited is
now the registered proprietor of the land within described.
See TRANSFER No. L578913 dated 5th September 1969
Entered 7th November 1969
REGISTRAR GENERAL

No. L578914 MORTGAGE dated 22nd August 1969
to Deposit and Investment Company Limited
Entered 7th November 1969
REGISTRAR GENERAL

This deed is cancelled as to the whole
New Certificates of Title have issued on 24.6.1970
for lots in Strata Plan No. 4718 as follows:
Lots 1 to 12 Vol. 11347 Fols 49 to 60 respectively
REGISTRAR GENERAL

Req:R038145 /Doc:CT 11166-211 CT /Rev:19-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 15:58 /Seq:1 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

[redacted]

IFICATE OF TITLE

NEW SOUTH WALES

ERTY ACT, 1900, as amended.

11166211

Vol. 11166 Fol. 211

(Page 1) Vol. 11166 Fol. 211

Appln. No.3871

Prior Title Vol.2922 Fol.236

CDS Edition issued 23-10-1969

L597798

CANCELLED

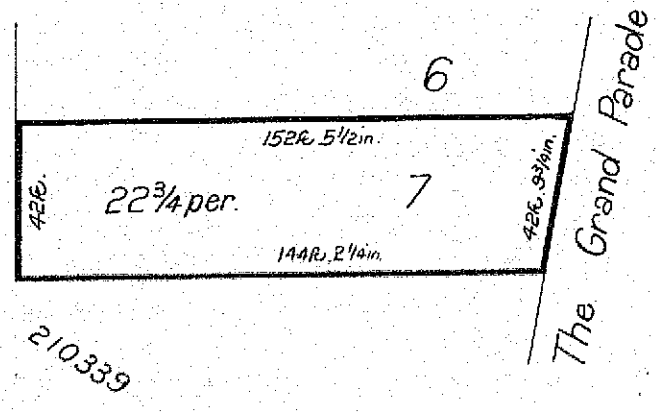
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness B. Hinchey

Registrar General.

REGISTRAR GENERAL NEW SOUTH WALES

PLAN SHOWING LOCATION OF LAND



Scale: 50 feet to one inch.

L597798. S.E.

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 7 in Deposited Plan 6530 in the Municipality of Rockdale Parish of St.George and County of Cumberland being part of Portion 46 granted to William Henry Harding on 9-2-1854.

FIRST SCHEDULE

~~JOHN HENRY TIPPETT of Brighton-le-Sands, Mariner, and PHYLLIS JEAN TIPPETT, his wife as Joint Tenants.~~

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

Registrar General

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

RG 2/62 NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

PT 1 . 17 V.C.N. Blight, Government Printer

Vol. 11166 Fol 211

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
Boysaal Pty. Limited	Transfer	L578912	18-9-1969	7-11-1969	

This dead is cancelled as to the whole
New Certificates of Title have issued on 24-6-1970.
for lots in Strata Plan No. 4718 as follows:-
Lots 1 to 12 Vol. 11347 Fol's 49 to 60 respectively.

REGISTRAR GENERAL

L578912 To Tr.
CT 3/6/70

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION
Mortgage	L578914	22-8-1969	to Deposit and Investment Company Limited	7-11-1969		

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

Req:R038145 /Doc:CT 11166-211 CT /Rev:19-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 15:58 /Seq:2 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

Req:R038203 /Doc:CT 02922-236 CT /Rev:31-Jul-2012 /NSW LRS /Prt:03-Oct-2025 16:09 /Seq:1 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

48801

CERTIFICATE OF TITLE.

(C.)

New South Wales.

[App^n No. 3871
[Reference to last Certificate
[Vol. 2244 Fol. 75.

REGISTER BOOK,
VOL. 2922 FOL. 236

CANCELLED

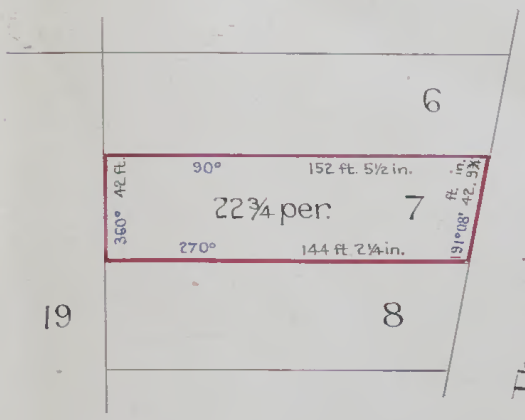
Lila White of Sydney Spinster Transferee under Instrument of Transfer from David Shackell No A448202 is now the proprietor of an estate in fee simple subject nevertheless to the reservations and conditions, if any, contained in the Grant hereinafter referred to, and also subject to such encumbrances, liens, and interest as are notified hereon, in That piece of land situated at Brighton-le-Sands in the Municipality of Rockdale, Parish of St George, and County of Cumberland containing Twenty two and three quarters perches, or thereabouts, as shown on the Plan hereon, and therein edged red, being Lot 7 on a Plan deposited in the Land Titles Office, Sydney, No. 6530 and being part of Portion 46 delineated in the Public Map of the said parish in the Department of Lands originally granted to William Henry Harding by Crown Grant dated the ninth day of February one thousand eight hundred and fifty four

In witness whereof, I have hereunto signed my name and affixed my Seal, this Twenty fifth day of March one thousand nine hundred and nineteen

Signed in the presence of A. McKay.

Registrar General.

REGISTRAR GENERAL NEW SOUTH WALES



Scale: 60 ft. to one inch

A448202 S.K.

NOTIFICATION REFERRED TO.

No. B765934 NOTICE of MARRIAGE. Proof has been furnished to me of the marriage of the said Lila (otherwise Lila Kay) White with Joakim Martin Andersen at Sydney on the 1st day of August 1919 Produced 12th January 1929 and entered 11th January 1929 at 12 o'clock in the — noon.

REGISTRAR GENERAL.

No. B778350 TRANSFER dated 4th February 1929 from the said Lila Mary Andersen to Joseph William Murdoch of Brighton-le-Sands Builder and Eleanor Murdoch his wife as joint tenants of the land within described Produced 6th February 1929 and entered 19th February 1929 at 2 o'clock in the afternoon.

REGISTRAR GENERAL

Req:R038203 /Doc:CT 02922-236 CT /Rev:31-Jul-2012 /NSW LRS /Prt:03-Oct-2025 16:09 /Seq:2 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

No. V199992 APPLICATION BY TRANSMISSION

Otto Brown of Sydney, Solicitor

is now the registered Proprietor of the land within described in pursuance of the above Application Produced 27th April, 1943 and entered 24th September, 1943 at 11 o'clock in the fore noon.

REGISTRAR GENERAL

No. P232074 MORTGAGE dated 27th February 1942 from the said Otto Brown to The Commercial Banking Company of Sydney Limited.

Produced 27th April, 1943 and entered 24th September 1943 at 11 o'clock in the fore noon.

REGISTRAR GENERAL

No. P232075 CAVEAT dated 27th April, 1943. by the Registrar General.

Produced 27th April, 1943 and entered 24th September, 1943 at 11 o'clock in the fore noon.

REGISTRAR GENERAL

No. 0233818 DISCHARGE of within mortgage P232074 dated 1st October 1943

Produced 1st October 1943 and entered 11th October 1943 at 12 o'clock ~~in the~~ noon.

REGISTRAR GENERAL.

The within Caveat No. 0232075 is hereby withdrawn

Dated 11th October 1943

REGISTRAR GENERAL.

No. 0233819 TRANSFER dated 13th September 1943 from the said Otto Brown to Arnold Fassler of Sydney, Watchmaker

of the land within described

Produced 1st October 1943 and entered 11th October 1943 at 12 o'clock ~~in the~~ noon.

REGISTRAR GENERAL.

No. F245418 TRANSFER dated 15th June 1950 from the said Arnold Fassler to Brian Anthony Ricketts of Banksia Furniture Manufacturer

of the land within described

Produced and entered 20th June 1950 at 8 mts pt 2 o'clock in the after noon.

REGISTRAR GENERAL.

No. F735799 MORTGAGE dated 3rd September 1952 from the said Brian Anthony Ricketts to Commonwealth Savings Bank of Australia

Produced and entered 25 September 1952 at 22 mts pt 2 o'clock in the after noon.

REGISTRAR GENERAL.

MORTGAGE No. F735799 has been discharged.

See H461733 Entered 12th April 1960.

REGISTRAR GENERAL

Egerton Hugh Alfred Pavlides of Brighton-le-Sands, Grazier

is now the registered proprietor of the land within described.

See TRANSFER No. H461734 dated 21st March 1960.

Entered 12th April 1960.

REGISTRAR GENERAL

No. J192223 MORTGAGE dated 21st September 1962 to John Harold Roberts of Bathurst, RETIRED and Ruby Ellen Roberts of Bathurst widow

Entered 15th November 1962

REGISTRAR GENERAL.

MORTGAGE No. J192223 has been discharged

See J968793 Entered 10th May 1965

REGISTRAR GENERAL

John Henry Tippett of Brighton-le-Sands, Maurice and Phyllis Jean Tippett, his wife are

now the registered proprietors of land within described as joint tenants

See TRANSFER No. J968794 dated 13th April 1965

Entered 10th May 1965

REGISTRAR GENERAL

No. J968795 MORTGAGE dated 13th April 1965 to Permanent Trustee Company of New South Wales Limited

Entered 10th May 1965

REGISTRAR GENERAL

MORTGAGE No. J968795 has been discharged.

See L578911 Entered 1st October 1969

REGISTRAR GENERAL

This Deed is cancelled and Certificate of Title issued.

Vol. 11166 Fol. 211 dated 23-10-1969

Vide O L597798

REGISTRAR GENERAL

Req:R038229 /Doc:DL L578912 /Rev:01-Mar-2012 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 16:11 /Seq:1 of 2
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L578912

'69 SEP 19 PM 1:07

No.

R.P. 13

FEES:— $ c

Lodgment —

Endorsement —

$ 8 00

19/9/69

New South Wales

MEMORANDUM OF TRANSFER

(REAL PROPERTY ACT, 1900)

(Trusts must not be disclosed in the transfer.)

Typing or handwriting in this instrument should not extend into any margin. Handwriting should be clear and legible and in permanent black non-copying ink.

XXXX JOHN HENRY TIPPETT of Brighton-le-Sands, Mariner and PHYLLIS JEAN TIPPETT his wife

(herein called transferor)

being registered as the proprietor of an estate in *fee simple*[a] in the land hereinafter described, subject, however, to such encumbrances, liens and interests as are notified hereunder, in consideration of THIRTY THOUSAND DOLLARS

($30,000-00) (the receipt whereof is hereby acknowledged) paid to us by

[b] BOYSALL PTY. LIMITED

do hereby transfer to

[c] BOYSALL PTY. LIMITED a Company duly incorporated and having its Registered Office at 110 Pacific Highway North Sydney

(herein called transferee)[d]

ALL such our Estate and Interest in ALL THE land mentioned in the schedule following:—

County	Parish	Reference to Title			Description of Land (if part only)*
		Whole or Part	Vol.	Fol.	
CUMBERLAND	ST. GEORGE	WHOLE	2922	236 *	

* Now being Whole of land comprised in Cert. of Title, Vol. 11166 Fol. 211 ...25

ENCUMBRANCES, &c., REFERRED TO[f]

1. Reservations and conditions, if any, contained in Crown Grant.

Signed at Sydney the 18th day of September, 1969.

[g] Signed in my presence by the transferor

WHO IS PERSONALLY KNOWN TO ME

Solicitor Sydney.

[h] Signed

Transferor*

C. J. Tippett

Signed in my presence by the transferee

WHO IS PERSONALLY KNOWN TO ME

† Accepted, and I hereby certify this Transfer to be correct for the purposes of the Real Property Act.

C.J. CURWOOD

Solicitor for the Transferee(s) whose signatures cannot be obtained without difficulty and delay.

THIS SPACE TO BE LEFT FREE FROM NOTATION

NOT TO BE ALTERED BY ERASURE—See Foot Note

a If a less estate, strike out "in *fee simple*" and interline the required alteration.

b State in full the name of the person who furnished the consideration monies.

c Show in BLOCK LETTERS the full name, postal address and description of the persons taking.

d If more than one person is taking state whether they hold as joint tenants or tenants in common.

e The description may refer to the defined residue of the land in a certificate or grant (e.g., "and being residue after Transfer No. ") or may refer to parcels shown in Town or Parish Maps issued by the Dept of Lands or shown in plans filed in the Office of the Registrar General (e.g., "and being lot sec. D.P. "). Unless authorised by Reg. 53 of the Conveyancing Act Regulations, 1961, a plan may not be annexed to or endorsed on this transfer form.

f A very short note will suffice.

g Execution in New South Wales may be proved if this instrument is signed or acknowledged before the Registrar General, or Deputy Registrar General, or a Notary Public, a J.P., or Commissioner for Affidavits, to whom the Transferor is known, otherwise the attesting witness should appear before one of the above functionaries who having questioned the witness should sign the certificate on the back of this form.

As to instruments executed elsewhere, see Section 107 of the Real Property Act, 1900, Section 168 of the Conveyancing Act, 1919, and Section 52A of the Evidence Act, 1898.

h Repeat attestation if necessary.

If the Transferor or Transferee signs by a mark, the attestation must state "that the instrument was read over and explained to him, and that he appeared fully to understand the same."

* If signed by virtue of any power of attorney, the original power must be registered in the Miscellaneous Register, and produced with each dealing, and the memorandum of non-revocation on back of form signed by the attorney before a witness.

† N.B.—Section 117 requires that the above Certificate be signed by each Transferee or his Solicitor or Conveyancer, and renders any person falsely or negligently certifying liable to a penalty; also to damages recoverable by parties injured. Acceptance by the Solicitor or Conveyancer (who must sign his own name, and not that of his firm) is permitted only when the signature of the Transferee cannot be obtained without difficulty, and when the instrument does not impose a liability on the party taking under it. When the instrument contains some special covenant by the Transferee or is subject to a mortgage, encumbrance or lease, the Transferee must accept personally.

No alterations should be made by erasure. The words rejected should be scored through with the pen, and those substituted written over them, the alteration being verified by signature or initials in the margin, or noticed in the attestation.

St 437—W K 1165. V. C. N. Blight, Government Printer

680730

L578912

No._____

Lodged by McGurent Co

Address:

Phone No.:

PARTIAL DISCHARGE OF MORTGAGE[i]

(N.B.—Before execution read marginal note)

I,

mortgagee under Mortgage No.

release and discharge the land comprised in the within transfer from such mortgage and all claims thereunder but without prejudice to my rights and remedies as regards the balance of the land compised in such mortgage.

i This discharge is appropriate to a transfer of part of the land in the Mortgage. The mortgagee should execute a formal discharge where the land transferred is the whole of or the residue of the land in the Certificate of Title or Crown Grant or is the whole of the land in the mortgage.

Dated at *this* *day of* 19 .

Signed in my presence by

who is personally known to me.

Mortgagee.

MEMORANDUM AS TO NON-REVOCATION OF POWER OF ATTORNEY

(To be signed at the time of executing the within instrument)

Memorandum whereby the undersigned states that he has no notice of the revocation of the Power of Attorney registered No. *Miscellaneous Register under the authority of which he has just executed the within tranfer.*[j]

Signed at *the* *day of* , 19 .

Signed in the presence of—

_____

j Strike out unnecessary words. Add any other matter necessary to show that the power is effective.

CERTIFICATE OF J.P., &c., TAKING DECLARATION OF ATTESTING WITNESS[k]

Appeared before me at *, the* *day of* *, one thousand nine hundred and* *the attesting witness to this instrument and declared that he personally knew* *the person signing the same, and whose signature thereto he has attested; and that the name purporting to be such signature of the said* *is* *own handwriting, and that he was of sound mind and freely and voluntarily signed the same.*

_____

k To be signed by Registrar General, Deputy Registrar General, a Notary Public, J.P., Commissioner for Affidavits, or other functionary before whom the attesting witness appears.
Not required if the instrument itself be signed or acknowledged before one of these parties.

LEAVE THESE SPACES FOR DEPARTMENTAL USE

INDEXED	MEMORANDUM OF TRANSFER
Checked by	Particulars entered in Register Book, 7.11.1969
Passed (in S.D.B.) by	at 10am
Signed by	Registrar General

DOCUMENTS LODGED HEREWITH

To be filled in by person lodging dealing

1. _____ } Received Docs
2. _____
3. _____ } Nos
4. _____
5. _____
6. _____ } Receiving Clerk
7. _____

PROGRESS RECORD

	Initials	Date
Sent to Survey Branch		
Received from Records		
Draft written		
Draft examined		
Diagram prepared		
Diagram examined		
Draft forwarded		
Supt. of Engrossers		
Cancellation Clerk		

VOL. FOL.

1165 St 437—W

Req:R038229 /Doc:DL L578912 /Rev:01-Mar-2012 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 16:11 /Seq:2 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

Req:R037993 /Doc:CT 02213-231 CT /Rev:30-Jul-2012 /NSW LRS /Prt:03-Oct-2025 15:39 /Seq:1 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

3298

CERTIFICATE OF TITLE.

(C.)

New South Wales.

[Appn No. 15002]
[Reference to Last Certificates]
[Vol. 1892 Folios 244 and 245]

REGISTER BOOK,
Vol. 2213 Folio 231

CANCELLED

Ernest Albert Woodberry of North Sydney Real Estate Saleman Transferee under Instrument of Transfer from David Brand Gourlay and Henry Duncan Gourlay No 636433 is now the proprietor of an Estate in Fee Simple, subject nevertheless to the reservations and conditions, if any, contained in the Grants hereinafter referred to, and also subject to such encumbrances, liens, and interests as are notified hereon, in That piece of land situated in the Municipality of North Sydney in the Town of St Leonards now North Sydney, Parish of Willoughby, and County of Cumberland containing One rood ten perches, or thereabouts as shown on the Plan hereon, and therein edged red, being part of Allotment 18 of Section 28 originally granted to John Glover by Crown Grant dated the Twenty seventh day of June One thousand eight hundred and fifty six and also part of Allotment 17 of said Section 28 originally granted to Vinzenz Zahel by Crown Grant dated the Twenty seventh day of June One thousand eight hundred and fifty six. Which said Grants are delineated in the Public Map of the said Town deposited in the Department of Lands

Surv

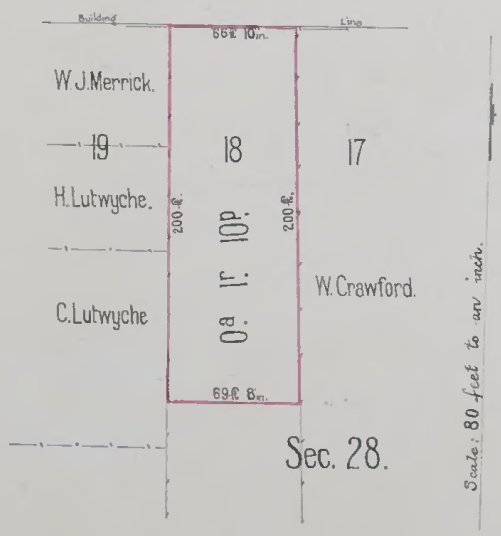
In witness whereof, I have hereunto signed my name and affixed my Seal, this Twenty ninth day of December one thousand nine hundred and eleven

Signed the 29th day of December 1911,
in the presence of

Deputy Registrar General.

REGISTRAR GENERAL N.S.W. SOUTH

Rosalind St



NOTIFICATION REFERRED TO.

Amongst the reservations and conditions contained in the Grants above referred to are the following namely:—
Reservations of all Mines of Coal

Deputy Registrar General

REGISTRAR GENERAL N.S.W. SOUTH

No. 636434 MORTGAGE DATED 22nd November 11
FROM THE SAID Ernest Albert Woodberry
To Charles William Holman of North Sydney Freeholder
PRODUCED 11th December 1911, AT MINUTES 4 O'CLOCK IN THE afts NOON AND ENTERED 8th January 1912
AT 4 O'CLOCK IN THE afts NOON

REGISTRAR GENERAL.

N.S.W.
5011
4464

Req:R037993 /Doc:CT 02213-231 CT /Rev:30-Jul-2012 /NSW LRS /Prt:03-Oct-2025 15:39 /Seq:2 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

No. A 160113 DISCHARGE of within Mortgage
No. 136434 Dated 18th February 1915
Produced 19th February 1915 and entered
11th March 1915
at 4 o'clock in the after noon
REGISTRAR GENERAL

No. A 160114 MORTGAGE dated 18th February 1915
from the said Ernest Albert Woodberry to
Sherrington Alfred Ernest Burrell
Gilder Joseph Kemp Russell and Carl
Frederick Spencer Glasgow
Produced and entered 19th February 1915 11th March 1915
at 4 o'clock in the after noon
REGISTRAR GENERAL.

No. A 160115 MORTGAGE dated 18th February 1915
from the said Ernest Albert Woodberry to
Charles William Holman of
North Sydney Collector
Produced and entered 19th February 1915 11th March 1915
at 4 10 o'clock in the ~~fore~~ after noon
REGISTRAR GENERAL.

No. A 462694 DISCHARGE of within Mortgage
No. A 160115 dated 12th May 1919
Produced 19th May 1919 and entered
19th May 1919
at 10 mts pt 2 o'clock in the after noon.
REGISTRAR GENERAL.

No. A 462695 TRANSFER dated 10th May 1919
from the said Ernest Albert Woodberry to Valentine
Cecil Woodberry of North Sydney, Commission
Agent
of the land within described.
Produced and entered 19th May 1919
at 10 mts pt 2 o'clock in the after noon.
REGISTRAR GENERAL.

No. A 683966 DISCHARGE of within Mortgage
H160114 dated 1st April 1921
Produced 14th April 1921 and entered
22nd April 1921
at 12 o'clock in the ~~fore~~ noon.
REGISTRAR GENERAL.

No. A 683967 MORTGAGE dated 1st April 1921
from the said Valentine Cecil Woodberry To
Sherrington Alfred Ernest Burrell Gilder,
Joseph Kemp Russell and Carl Frederick Spencer
Glasgow Engineers
Produced and entered 22nd April 1921
at 12 o'clock in the ~~fore~~ noon.
REGISTRAR GENERAL.

A 160113R
—114R
—115R

No. B 91066 TRANSFER dated 20th May 1924
from the said Valentine Cecil Woodberry to Ernest
Albert Woodberry of North Sydney Auctioneer
of the land within described
Produced and entered 11th June 1924
at 3 mts pt 10 o'clock in the fore noon.
REGISTRAR GENERAL.

No. B 969942 DISCHARGE of within Mortgage
A 683967 dated 31st March 1930
Produced 6th May 1930 and entered
6th May 1930
at 5 mts pt 2 o'clock in the after noon.
REGISTRAR GENERAL.

No. B 973408 APPLICATION BY TRANSMISSION
Percy Trist of Mosman Clerk and Charles Trist
of Mosman Jeweller
as joint tenants are now the registered
Proprietors of the Land within described in pursuance of the above
Application. Produced 15th May 1930. and
entered 30th May 1930.
at 3 o'clock in the after noon.
REGISTRAR GENERAL.

No. B 973409 CAVEAT dated 15th May 1930.
by the Registrar General. Produced and entered
30th May 1930
at 3 o'clock in the after noon.
REGISTRAR GENERAL.

No. C 720420 MORTGAGE dated 2nd June 1931
from the said Percy Trist and Charles Trist
to Keith Wickham Allen of Mosman
Physical Expert
Produced 3rd June 1931 and entered 12th June 1931
at 10 o'clock in the fore noon.
Acting REGISTRAR GENERAL.

No. F 747421 DISCHARGE of within mortgage
No. C 720420 dated 17th October 1952
Produced 17th October 1952 and entered 17th October 1952
at 1 mt pt 1 o'clock in the after noon.
REGISTRAR GENERAL.

No F 882626 Application under Section 12 of the Transfer Act 1920. Lilian Irene Gadsby of Manly widow and Valentine Cecil Woodberry of Seaforth Dairy Farmer are registered proprietors of the land within described. Produced 4th December 1953 and entered 8th March, 1954 at 12 o'clock noon.
J. Wells
Registrar General.
The within caveat No B 973409 is lodged with the consent dated 8th March, 1954
J. Wells
Registrar General.

No G 10357 TRANSFER dated 2nd November 1953
from the said Lilian Irene Gadsby and Valentine
Cecil Woodberry to William Bramwell
Booth Roger
of the land within described
Produced 25th January 1954 and entered 8th March 1954
at 12 o'clock in the noon.
As to land in this transfer this Certificate is cancelled and new Certificate issued Vol. 6799 Fol. 193
J. Wells
Registrar General.

Title Search NSW

03/10/2025 02:38 PM

Client Reference: DI-E3403

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: CP/SP16181

SEARCH DATE	TIME	EDITION NO	DATE
3/10/2025	2:37 PM	15	19/7/2024

LAND

THE COMMON PROPERTY IN THE STRATA SCHEME BASED ON STRATA PLAN 16181
WITHIN THE PARCEL SHOWN IN THE TITLE DIAGRAM

AT CROWS NEST
LOCAL GOVERNMENT AREA NORTH SYDNEY
PARISH OF WILLOUGHBY COUNTY OF CUMBERLAND
TITLE DIAGRAM SHEET 2 SP16181

FIRST SCHEDULE

THE OWNERS - STRATA PLAN NO. 16181
ADDRESS FOR SERVICE OF DOCUMENTS:
C/- BART STRATA PTY LTD
PO BOX 95
ALEXANDRIA 1435

SECOND SCHEDULE (5 NOTIFICATIONS)

---

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 DP232047 RIGHT OF CARRIAGEWAY AND EASEMENT FOR SERVICES (SEE K637163) AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
3 DP232047 RIGHT OF CARRIAGEWAY AND EASEMENT FOR SERVICES (SEE K637163) APPURTENANT TO THE LAND ABOVE DESCRIBED AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
4 AN374241 INITIAL PERIOD EXPIRED
5 AS72182 CONSOLIDATION OF REGISTERED BY-LAWS

SCHEDULE OF UNIT ENTITLEMENT (AGGREGATE: 1000)

STRATA PLAN 16181

LOT	ENT	LOT	ENT	LOT	ENT	LOT	ENT

Direct Info Pty Ltd - ABN 25 160 378 263 an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar-General in accordance with Section 96B (2) of the Real Property Act, 1900.

1 - 50	2 - 50	3 - 50	4 - 50
5 - 50	6 - 62	7 - 62	8 - 50
9 - 50	10 - 50	11 - 50	12 - 50
13 - 63	14 - 63	15 - 50	16 - 50
17 - 50	18 - 50	19 - 50	

END OF PAGE 1 - CONTINUED OVER

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Direct Info Pty Ltd - ABN 25 160 378 263 an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar-General in accordance with Section 96B (2) of the Real Property Act, 1900.

Historical Title Search NSW

03/10/2025 02:38 PM

Client Reference: DI-E3403

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

3/10/2025 2:37PM

FOLIO: CP/SP16181

First Title(s): OLD SYSTEM

Prior Title(s): VOL 14317 FOL 192

Recorded	Number	Type of Instrument	C.T. Issue
29/4/1986		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
9/7/1986		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
7/4/1992	E374041	CHANGE OF BY-LAWS	EDITION 1
13/7/1993	I481637	CHANGE OF BY-LAWS	EDITION 2
13/7/2006	AC451587	CHANGE OF BY-LAWS	
13/7/2006	AC451588	CHANGE OF BY-LAWS	EDITION 3
19/10/2006	AC679767	DEPARTMENTAL DEALING	
27/1/2009	AE461894	CHANGE OF BY-LAWS	EDITION 4
24/6/2011	AG324231	CHANGE OF BY-LAWS	EDITION 5
14/11/2013	AI161793	CHANGE OF BY-LAWS	EDITION 6
11/4/2014	AI504816	CHANGE OF BY-LAWS	EDITION 7
22/2/2017	AM177259	CHANGE OF ADDRESS OF ASSOCIATION/OWNERS CORPORATION	
22/2/2017	AM177260	CONSOLIDATION/CHANGE OF BY-LAWS	EDITION 8
28/5/2018	AN374241	CONSOLIDATION/CHANGE OF BY-LAWS	EDITION 9
9/9/2019	AP520067	CONSOLIDATION/CHANGE OF	EDITION 10

Direct Info Pty Ltd - ABN 25 160 378 263 an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar-General in accordance with Section 96B (2) of the Real Property Act, 1900.

BY-LAWS

29/10/2019 AP642684 CONSOLIDATION/CHANGE OF BY-LAWS EDITION 11

13/5/2020 AQ101873 CONSOLIDATION/CHANGE OF BY-LAWS EDITION 12

END OF PAGE 1 - CONTINUED OVER

DI-E3403 PRINTED ON 3/10/2025

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

3/10/2025 2:37PM

FOLIO: CP/SP16181 PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
28/4/2022	AS72182	CONSOLIDATION/CHANGE OF BY-LAWS	EDITION 13
20/12/2023	AT710405	CHANGE OF ADDRESS OF ASSOCIATION/OWNERS CORPORATION	EDITION 14
19/7/2024	AU255185	CHANGE OF ADDRESS OF ASSOCIATION/OWNERS CORPORATION	EDITION 15

*** END OF SEARCH ***

Direct Info Pty Ltd - ABN 25 160 378 263 an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar-General in accordance with Section 96B (2) of the Real Property Act, 1900.

NEW SOUTH WALES

CERTIFICATE OF TITLE

REAL PROPERTY ACT, 1900

CANCELLED

CORRENS TITLE Register

Vol. 14317 Fol. 192

SEE AUTO FOLIO

EDITION ISSUED

12 | 1981

Appln. Nos.15002 & 45003 OS

Crown Grants Ser.259 Pges.501 and 502

Prior Title Vol.10548 Fol.131

(Page 1) Vol. 14317 Fol. 192

I certify that The Proprietors - Strata Plan No. 16181 is the registered proprietor of an Estate in Fee Simple in the common property in the strata scheme relating to the Strata Plan so numbered, within the land herein described, subject nevertheless to the exceptions encumbrances and interests recorded hereon and to the reservations and conditions, if any, contained in the Crown grant.

S2

Registrar General.

ADDRESS FOR SERVICE OF NOTICES 23 ROSALIND STREET, CROWS NEST 2065.

LAND REFERRED TO Lot 3 in Deposited Plan 232047 at Crows Nest in the Municipality of North Sydney Parish of Willoughby and County of Cumberland. EXCEPTING THEREOUT all mines of coal reserved by the Crown Grants.

GRY EXCEPTIONS ENCUMBRANCES AND INTERESTS REFERRED TO

EA(SB) 1. DP232047 Right of carriageway and easement for services affecting the part of the land above described shown so burdened in the plan hereon. (See K637163)

EA2(SB) 2. DP232047 Right of carriageway and easement for services appurtenant to the land above described affecting the land shown so burdened in the plan hereon. (See K637163)

SCHEDULE OF UNIT ENTITLEMENT

Aggregate unit entitlement: 1000

Lot No.	Strata Plan No.	Unit Entitlement
1	16181	50
2	"	50
3	"	50
4	"	50
5	"	50
6	"	62
7	"	62
8	"	50
9	"	50
10	"	50
11	"	50
12	"	50
13	"	63
14	"	63
15	"	50
16	"	50
17	"	50
18	"	50
19	"	50

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.

14317192

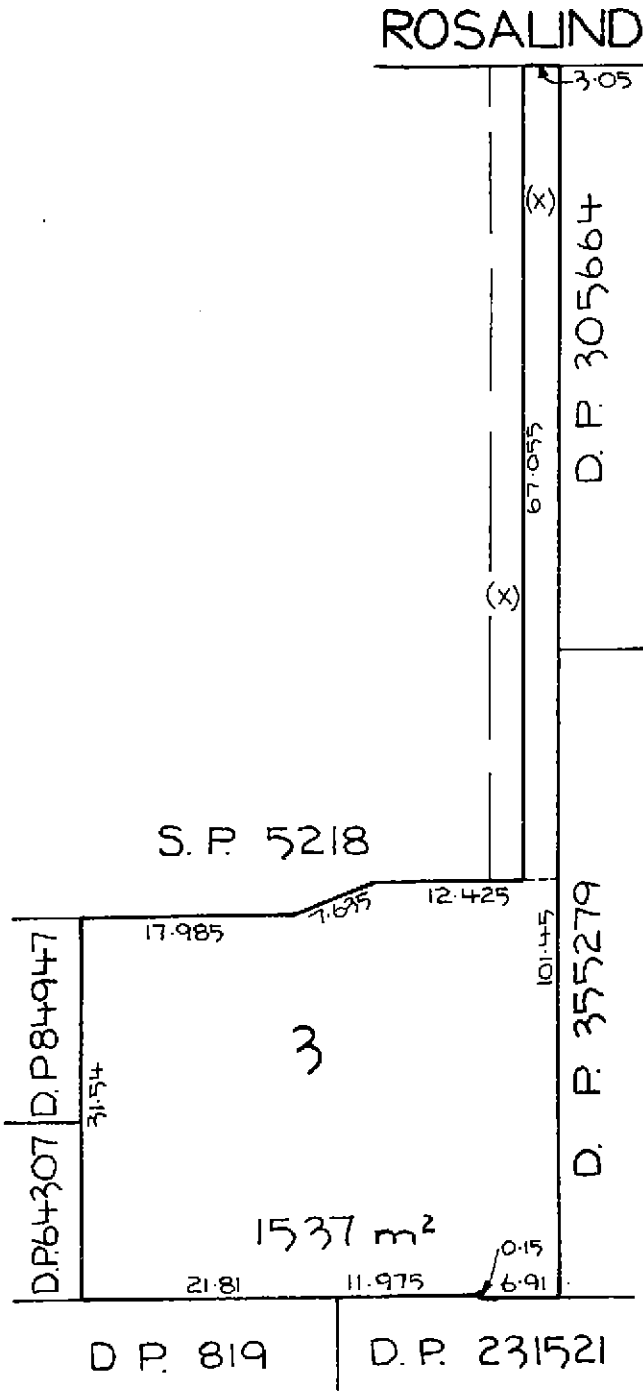
Req:R037481 /Doc:CT 14317-192 CT /Rev:02-Mar-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 14:54 /Seq:1 of 4
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

Req:R037481 /Doc:CT 14317-192 CT /Rev:02-Mar-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 14:54 /Seq:2 of 4
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

Vol. 14317 Fol. 192

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



(X) RIGHT OF CARRIAGEWAY & EASEMENT FOR SERVICES
3·05 WIDE K. 637163

REDUCTION RATIO 1:600

Reg:R037481 /Doc:CT 14317-192 CT /Rev:02-Mar-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 14:54 /Seg:3 of 4
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT		REGISTERED	Signature of Registrar General
	NATURE	NUMBER		

AFTER REGN
REFER ALL
DLGS & PLANS
TO ST30

Vol. 14317 Fol. 192

SECOND SCHEDULE (continued)

INSTRUMENT		PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
NATURE	NUMBER					

Reg:R037481 /Doc:CT 14317-192 CT /Rev:02-Mar-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 14:54 /Seq:4 of 4
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Req:R037683 /Doc:CT 10548-131 CT /Rev:11-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 15:14 /Seq:1 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

[redacted]

RTIFICATE OF TITLE

NEW SOUTH WALES — OPERTY ACT, 1900, as amended.

10548131

Appln. Nos. 15002 and 45003

Prior Titles Vol. 3026 Fol. 15
Vol. 10442 Fol. 83

Vol. 10548 Fol. 131

Edition issued 4-5-1967.

(Page 1) Vol. 10548 Fol. 131

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

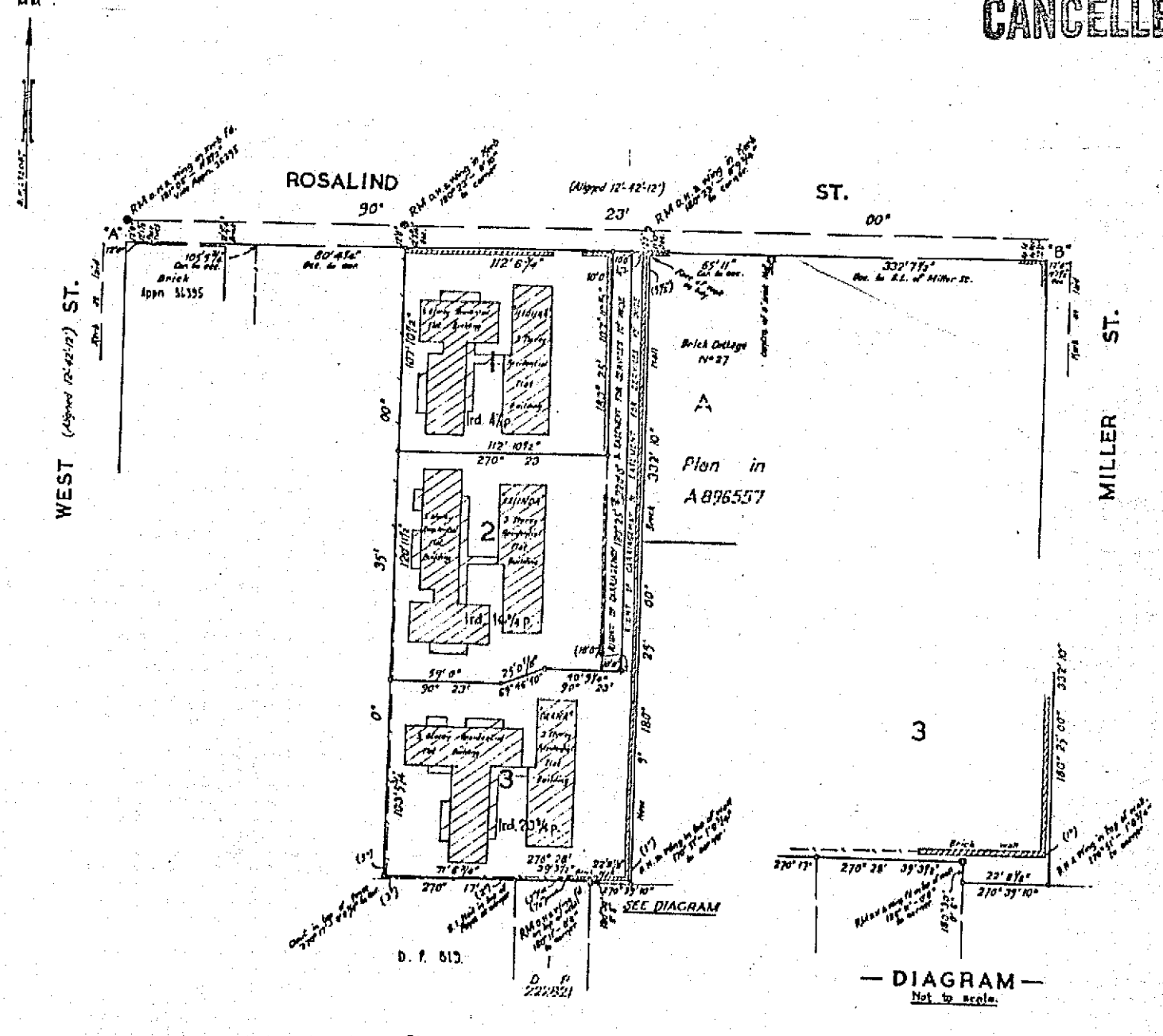
Witness J. Affleck.

Registrar General.

REGISTRAR GENERAL · N.S.W. SOUTH WALES

PLAN SHOWING LOCATION OF LAND

CANCELLED



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 3 in Deposited Plan 232047 in the Municipality of North Sydney, Parish of Willoughby and County of Cumberland being part of Allotment 17 Section 28 granted to Vinzenz Zahel on 27-6-1856 and part of Allotment 18 Section 28 granted to John Glover on 27-6-1856. EXCEPTING THEREOUT the mines of coal reserved by the Crown Grants.

FIRST SCHEDULE (continued overleaf)

EQUITABLE INVESTMENTS PTY. LIMITED.

SECOND SCHEDULE (continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
2. Right of Carriageway and easement for services affecting the part of the land above described shown in plan hereon as "Right of Carriageway & easement for services 10 ft. wide" created by the registration of Deposited Plan 232047. See K637163.
3. Right of Carriageway and Easement for services appurtenant to the land above described created by the registration of Deposited Plan 232047. See K637163.

Registrar General.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Vol. 10548 Fol 131

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
This deed is cancelled as to Whole New certificates of Title have issued on 12.1.1981 for lots in Strata Plan No 16181 as follows:- Lots 1 to 19 Vol 14317 Fol 193 to 211 respectively. Common Property 14317-192 REGISTRAR GENERAL					

NEW CERTIFICATE(S) OF TITLE ISSUING ON SP16181
NO DEALING TO BE REGISTERED WITHOUT REFERENCE TO

M393828 -29
-2 M
M393828 -29
-30 M
N.703849 - 50
&734346 V/a mtg N703850
S77279 D/a
SP 16181
29/11/8

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION		
~~Mortgage~~	~~K713591~~	~~5.1.1970~~	~~to Edward Jonson Burns and Anthony Martin Moran of Sydney, Solicitors~~	~~27.1.1970~~	Jonsatoon	Discharged	M393829	Jonsatoon
~~Mortgage~~	~~K713592~~	~~5.1.1970~~	~~to Edward Jonson Burns and Anthony Martin Moran of Sydney, Solicitors~~	~~27.1.1970~~	Jonsatoon	Discharged	M393828	Jonsatoon
~~Mortgage~~	~~M393830~~	~~12.8.1971~~	~~to Interlex Nominees Pty. Limited~~	~~24.8.1971~~	Jonsatoon	Discharged	N703849	Jonsatoon
~~Mortgage~~	~~N703850~~	~~31.1.1974.~~	~~to Interlex Nominees Pty. Limited.~~	~~19.2.1974.~~	Jonsatoon	Discharged	S77279	
~~Mortgage~~	~~N703850~~		~~&734346 Variation~~	~~19.6.1978~~		Cancelled	S77279	

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

Req:R037683 /Doc:CT 10548-131 CT /Rev:11-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 15:14 /Seq:2 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

Req:R037722 /Doc:CT 03026-015 CT /Rev:03-Aug-2012 /NSW LRS /Prt:03-Oct-2025 15:18 /Seq:1 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

CERTIFICATE OF TITLE.

(C.)

New South Wales.

CANCELLED

[Appn No. 15002.
[Reference to Last certificate
[Vol. 2217 Folios 102 and 103.

REGISTER BOOK,

VOL. 3026 FOL. 15

CANCELLED

Gourlay Brothers Limited transferee under Instrument of Transfer from Henry Duncan Gourlay and John Williams Maund and the said Henry Duncan Gourlay N.P. 525633 is now the proprietor of an Estate in Fee Simple

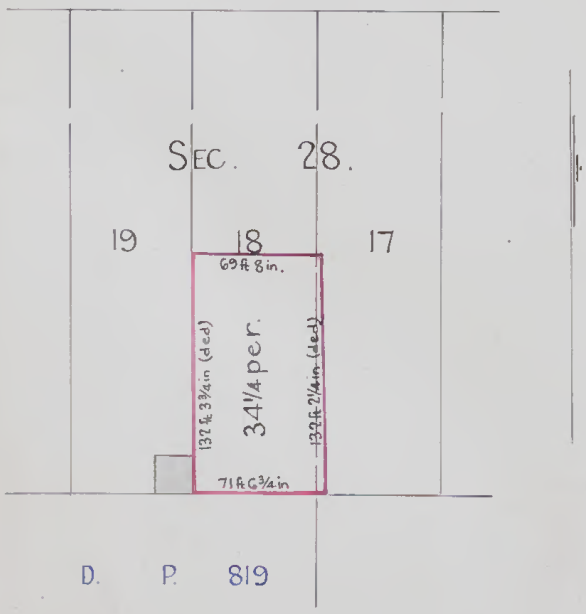
subject nevertheless to the reservations and conditions, if any, contained in the Grant hereinafter referred to, and also subject to such encumbrances, liens, and interests as are notified hereon, in that piece of land situated in the Municipality of North Sydney in the Town of St Leonards now North Sydney, Parish of Willoughby, and County of Cumberland containing Thirty four and one quarter perches, or thereabouts, as shown on the Plan hereon and therein edged red, being part of Allotment 17 of section 28 originally granted to Vincenz Zahel by Crown Grant dated the twenty seventh day of June one thousand eight hundred and fifty six and also part of allotment 18 of said section 28 originally granted to John Power by Crown Grant dated the twenty seventh day of June one thousand eight hundred and fifty six, which said Grants are delineated in the public map of the said Town in the Department of Lands.

In witness whereof, I have hereunto signed my name and affixed my Seal, this fourth day of March one thousand nine hundred and twenty

Signed in the presence of
Rosalind St

Registrar General.

REGISTRAR GENERAL NEW SOUTH WALES



SCALE:- 80ft to one inch.

A...525633

NOTIFICATION REFERRED TO.

Amongst the reservations and conditions contained in the Grant above referred to are reservations of all mines of coal.

Registrar General.

REGISTRAR GENERAL NEW SOUTH WALES

No. A872838 TRANSFER dated 5th October 1922 from the said Gourlay Brothers Limited (in Liquidation) to Gourlay Brothers Limited of the land within described

Produced and entered 27th October 1922 at Abt past 2 o'clock in the after noon.

REGISTRAR GENERAL

REGISTRAR GENERAL NEW SOUTH WALES

Req:R037722 /Doc:CT 03026-015 CT /Rev:03-Aug-2012 /NSW LRS /Prt:03-Oct-2025 15:18 /Seq:2 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

No. A 896433 MORTGAGE dated 12th December 1922
from the said Tourlay Brothers Limited To
The Commercial Banking Company of
Sydney Limited.

Produced and entered 8th January 1923
at Quarter Past 2 o'clock in the afternoon.

REGISTRAR GENERAL.

MORTGAGE No. A 896433. has been discharged
as regards the land comprised in this Certificate of Title
See H615107 Entered 21st October 1960

REGISTRAR GENERAL.

Middle Harbour Investments Pty Limited
is
now the registered proprietor of the land within described.
See TRANSFER No H615108 dated 26th September 1960
Entered 21st October 1960

REGISTRAR GENERAL.

Stardust Investments Pty Limited
is
now the registered proprietor of the land within described.
See TRANSFER No. H774970 dated 12th April 1961
Entered 3rd May 1961

REGISTRAR GENERAL.

NAME OF THE
The within registered proprietor is
now Equitable Investments Pty Limited
~~Entered~~ Dec K292497
Entered 13th April 1966

Registrar General

This deed is cancelled as to the whole
New Certificates of Title have issued on 4-5-1967
for lots in deposited Plan No. 232047 as follows:-
Lots 1 2 & 3 Vol 10548 Fol 129613 respectively.

REGISTRAR GENERAL

DP232047 (C.E.) creating easements over lots 2 & 3

Req:R038407 /Doc:CT 10442-083 CT /Rev:13-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 16:33 /Seq:1 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

[redacted]

FICATE OF TITLE

RTY ACT, 1900, as amended.

NEW SOUTH WALES

Application No.45003

Vol. 10442 Fol. 83

MA

Edition issued 18-11-1966

CANCELLED

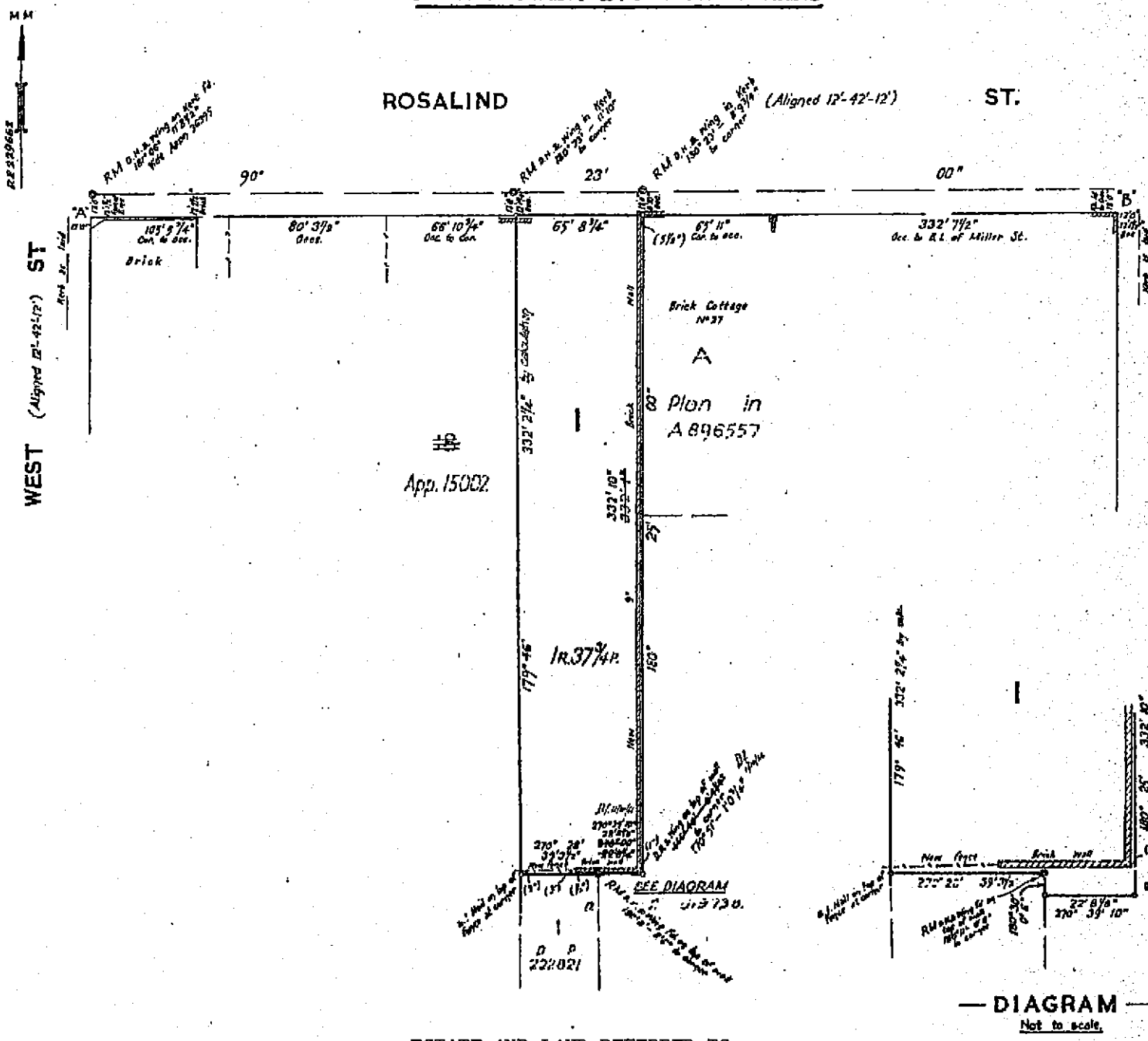
(Page 1) Vol. 10442 Fol. 83

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness D. O'Sullivan.

Registrar General.

PLAN SHOWING LOCATION OF LAND



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 229662 in the Municipality of North Sydney Parish of Willoughby and County of Cumberland being part of Allotment 17 of Section 28 Town of St.Leonards, granted to Vinzenz Zahel on 27-6-1856. Excepting thereout the mines of coal reserved by the Crown Grant.

FIRST SCHEDULE (continued overleaf)

EQUITABLE INVESTMENTS PTY. LIMITED.

Registrar General.

SECOND SCHEDULE (continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

Registrar General.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

PT 1 ,17 V.C.N. Blight, Government Printer

Vol. 10442 Fol 83

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
This deed is cancelled as to the whole New Certificates of Title have issued on 4-5-1967 for lots in deposited Plan No 232047 as follows:- Lots 1, 2 & 3 Vol 10548 Fol 129 to 131 respectively. Jowlatson REGISTRAR GENERAL					

DP 232047 (CT) wrong folio

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION
	K637163		Interests created pursuant to Section 88B Conveyancing Act, 1919 by the registration of Deposited Plan 232047	7-4-1967	Jowlatson	

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

Req:R038407 /Doc:CT 10442-083 CT /Rev:13-Jan-2011 /NSW LRS /Pgs:ALL /Prt:03-Oct-2025 16:33 /Seq:2 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

Req:R038427 /Doc:CT 02217-102 CT /Rev:30-Jul-2012 /NSW LRS /Prt:03-Oct-2025 16:35 /Seq:1 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

CERTIFICATE OF TITLE.

3868

(C.)

New South Wales.

(Tenancy in Common)
(Order No 25260)
(Residue after Transfer No 636433)

[App^n No. 15002]
[Reference to Last Certificate]
[Vol. 1892 Folio 2444]

REGISTER BOOK,

VOL. 2217 FOLIO 102

CANCELLED

David Brand Gourlay of North Sydney, Warehouseman, by virtue of Certificate of Title Volume 1892 Folio 2444 now surrendered as to Residue after Transfer No 636433 is now the proprietor of an Estate in fee simple in an undivided moiety or half share the entirety being held by him and Henry Duncan Gourlay as Tenants in Common subject nevertheless to the reservations and conditions, if any, contained in the Grant hereinafter referred to, and also subject to such encumbrances, liens, and interests as are notified hereon, in that piece of land situated in the Municipality of North Sydney in the Town of St Leonards now North Sydney, Parish of Willoughby, and County of Cumberland containing Thirty four and one quarter perches, or thereabouts, as shown on the Plan hereon, and therein edged red, being part of Allotment 17 of Section 28 originally granted to Vincenz Jahel by Crown Grant dated the twenty seventh day of June one thousand eight hundred and fifty six and also part of Allotment 18 of said Section 28 originally granted to John Glover by Crown Grant dated the twenty seventh day of June one thousand eight hundred and fifty six which said grants are delineated in the Public Map of the said Town deposited in the Department of Lands

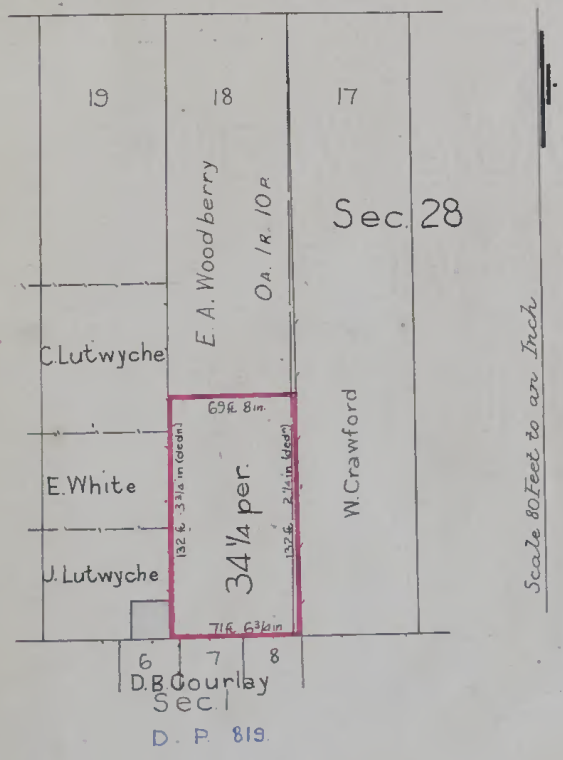
In witness whereof, I have hereunto signed my name and affixed my Seal, this Eleventh day of January one thousand nine hundred and twelve

Signed the 11th day of January 1912,

in the presence of

Rosalind St

Deputy Registrar General.



Scale 80 Feet to an Inch

NOTIFICATION REFERRED TO.

Amongst the reservations and conditions contained in the Grants above referred to are the following namely:
Reservations of all mines of Coal

Deputy Registrar General

No. W 325632. APPLICATION BY TRANSMISSION
Henry Duncan Gourlay Warehouseman
and John Williams Retired Solicitor
both of Sydney are now the registered
Proprietors of the Land within described in pursuance of the above
Application. Produced 5th January 1920 and
entered 27th February 1920
at 12 o'clock in the NOON.
Registrar General

REGISTRAR GENERAL NEW SOUTH WALES

A325632
3

Req:R038427 /Doc:CT 02217-102 CT /Rev:30-Jul-2012 /NSW LRS /Prt:03-Oct-2025 16:35 /Seq:2 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

No. A 525633 TRANSFER dated 24th November 1919
from the said Henry Duncan Fordyce and
John William Wanliss to Fordyce
Brothers Limited.
5th January 1920 of the land within described.
Produced and entered 23rd February 1920.
at 12 o'clock in the noon.

Cancelled & Certificate of Title issued Vol. 3026 Fol. 15

REGISTRAR GENERAL

REGISTRAR GENERAL NEW SOUTH WALES

Req:R038433 /Doc:CT 02217-103 CT /Rev:30-Jul-2012 /NSW LRS /Prt:03-Oct-2025 16:35 /Seq:1 of 2
© Office of the Registrar-General /Src:DirectInfo /Ref:DI-E3403

CERTIFICATE OF TITLE.

3868

(C.)

(Tenancy in Common)
(Order No. 25260)
(Residue after Transfer No 636433)

New South Wales.

[Appn No. 15002]
[Reference to last Certificate]
[Vol. 1892 Folio 245]

REGISTER BOOK,
VOL. 2217 FOLIO 103

CANCELLED W

Henry Duncan Gourlay of North Sydney, Warehouseman, by virtue of Certificate of Title Volume 1892 Folio 245 now surrendered as to Residue after Transfer No 636,433 is now the proprietor of an Estate in Fee Simple in an undivided moiety or half share the entirety being held by him and David Brand Gourlay as Tenants in Common subject nevertheless to the reservations and conditions, if any, contained in the Grant hereinafter referred to, and also subject to such encumbrances, liens, and interests as are notified hereon, in That piece of land situated in the Municipality of North Sydney in the Town of St Leonards now North Sydney, Parish of Willoughby, and County of Cumberland containing Thirty four and one quarter perches, or thereabouts, as shown on the Plan hereon, and therein edged red, being part of Allotment 17 of Section 28 originally granted to Vinjenz Zahel by Crown Grant dated the twenty seventh day of June one thousand eight hundred and fifty six and also part of Allotment 18 of said Section 28 originally granted to John Glover by Crown Grant dated the twenty seventh day of June one thousand eight hundred and fifty six which said Grants are delineated in the Public Map of the said Town deposited in the Department of Lands

In witness whereof, I have hereunto signed my name and affixed my Seal, this Eleventh day of January one thousand nine hundred and twelve

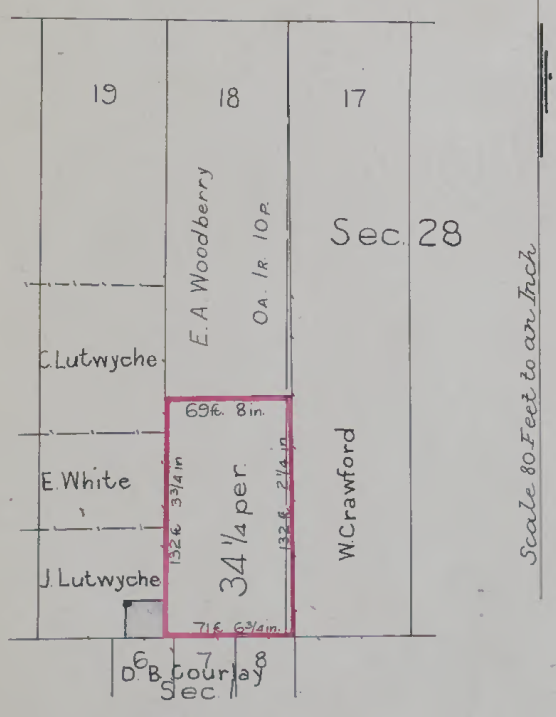
Signed the 11th day of January 1912,

in the presence of J. R. Riley

J. M. Porter
Deputy Registrar General.

REGISTRAR GENERAL N.S.W.

Rosalind St.



Scale 80 Feet to an Inch

NOTIFICATION REFERRED TO.

Amongst the reservations and conditions contained in the Grants above referred to are the following namely:- Reservations of all mines of coal

J. M. Porter
Deputy Registrar General.

REGISTRAR GENERAL N.S.W.

No. A 525633 TRANSFER dated 24th November 1919 from the said Henry Duncan Gourlay and also Henry Duncan Gourlay and John William Maund & Gourlay Brothers Limited. 5th January 1920 of the land within described. Produced and entered 23rd February 1920 at 12 o'clock in the — noon.

Cancelled & Certificate of Title issued Vol. 3076 Fol. 15.

J. M. Williams
REGISTRAR GENERAL

REGISTRAR GENERAL N.S.W.

APPENDIX G: BOREHOLE LOGS

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FOUNDATION EARTH SCIENCES

Borehole No: BH1 / GW1

UTM	: 56H	**Driller Rig**	: Multi Drill	**Job Number**	: E3403-2
Latitude	: -33.82498	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20824	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Elevation	: 84.34(m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 14.74 m	**Date**	: 23/09/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	RL (m)	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples Tests Remarks	Additional Observations	Depth (m)
	▼	GW1	84.29	0.05		CCT	Concrete Concrete.					
			84.0			F	Sandy Clay (F): medium plasticity, yellow to brown, firm, w = pl.	w ≈ PL	F	0.3-0.4		
			83.0	1.0								1.0
			82.54	1.8		SC	Clayey Sand (SC): well-graded, fine to medium grained, pale grey to yellow, medium dense, moist.	M	MD			
			82.34	2.0								2.0
				2.4		SST	SANDSTONE: pale grey to yellow.					
			81.0	3.0								3.0
			80.0	4.0								4.0
			79.0	5.0								5.0
			78.0	6.0								6.0
			77.0	7.0								7.0
			76.0	8.0								8.0
			75.0	9.0								9.0
			74.0	10.0								10.0
			73.0	11.0								11.0
			72.0	12.0								12.0
			71.0	13.0								13.0
			70.0	14.0								14.0
							BH1 / GW1 Terminated at 14.74 m					

FOUNDATION EARTH SCIENCES

Borehole No: BH2

UTM	: 56H	**Driller Rig**	: Multi Drill	**Job Number**	: E3403-2
Latitude	: -33.82509	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20819	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Elevation	: 87.86(m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 1.7 m	**Date**	: 23/09/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	RL (m)	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples Tests Remarks	Additional Observations	Depth (m)
			87.76	0.1		CCT	Concrete Concrete Asphalt.					
						F	Sandy Clay (F): medium to high plasticity, brown to red.			0.4-0.5		
			87.0	1.0								1.0
			86.66	1.2		CI-CH	Silty Sandy Clay (CI-CH): medium to high plasticity, brown, trace fine to medium gravel, firm, w = pl.	w ≈ PL	F			
			86.26	1.6		SST	SANDSTONE: low strength, orange, medium grained, moist.	M	L			
							BH2 Refusal at 1.7 m (TC Refusal)					

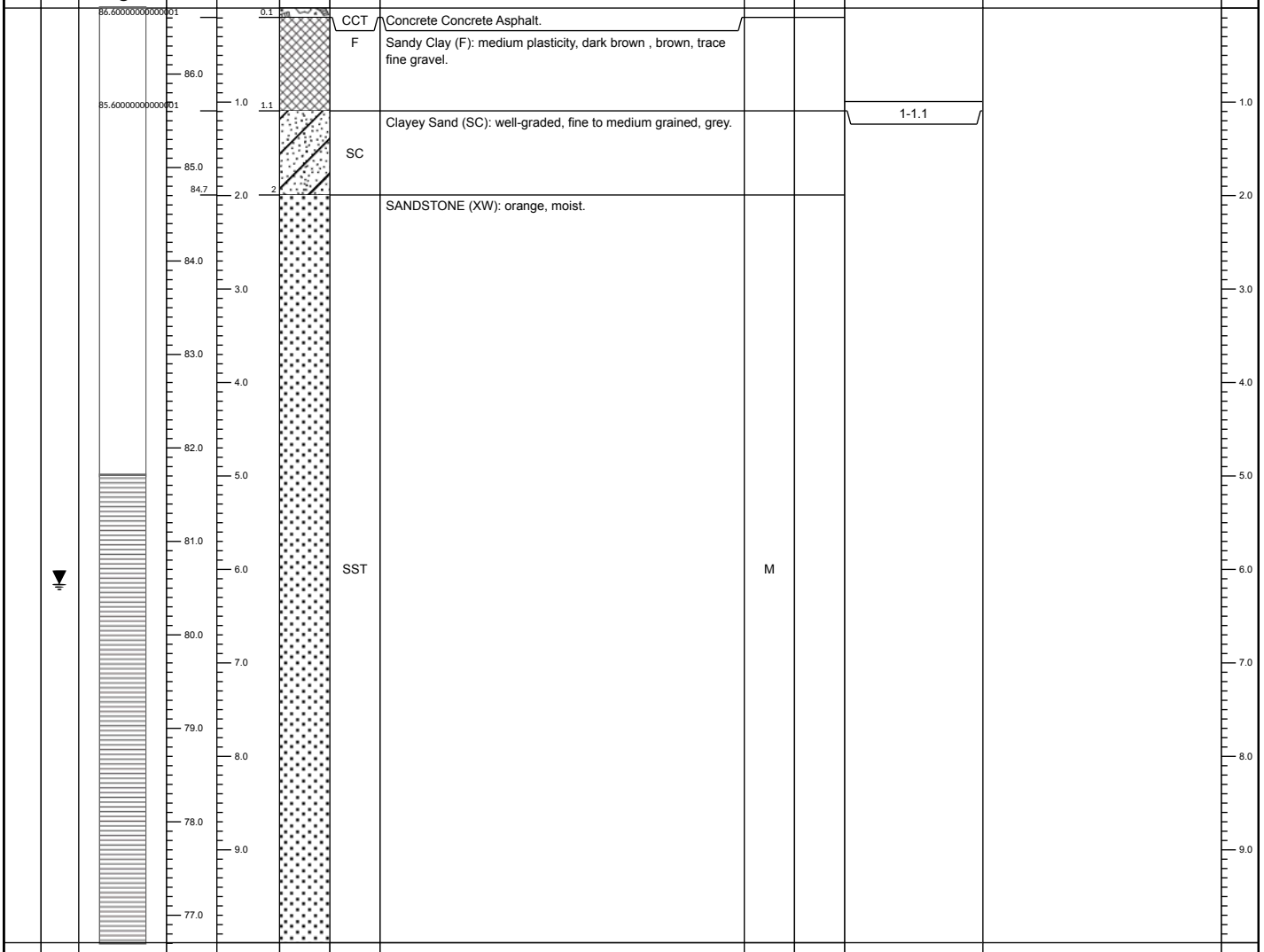
Foundation Earth Sciences

Phone:

Geotechnical Log - Borehole

BH3 /GW2

UTM	: 56H	**Drill Rig**	: Multi Drill	**Job Number**	: E3403-2
Latitude	: -33.82559	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20816	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Ground Elevation	: 86.7 (m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 10 m BGL	**Date**	: 24/09/2025	**Loc Comment**	:



Water

- Water inflow
- Water outflow
- Ground water Level during drilling

Weathering

- **XW** : Extremely weathered
- **DW** : Distinctly weathered
- **HW** : Highly weathered
- **MW** : Moderately weathered
- **SW** : Slightly weathered
- **FR** : Fresh

Altering

- **XA** : Extremely alterated
- **DA** : Distinctly alterated
- **HA** : Highly alterated
- **MA** : Moderately alterated
- **SA** : Slightly alterated

Consistency

- **VS** : Very soft
- **S** : Soft
- **F** : Firm
- **St** : Stiff
- **VSt** : Very stiff
- **H** : Hard
- **FR** : Friable

Moisture

- **D** : Dry
- **M** : Moist
- **W** : Wet

Density

- **VL** : Very loose
- **L** : Loose
- **MD** : Medium dense
- **D** : Dense
- **VD** : Very dense

Rock Strength

- **VLS** : Very low
- **LS** : Low
- **MS** : Medium
- **HS** : High
- **VH** : Very high
- **XH** : Extremely high

Tests&Results

- **U50** : Undisturbed 50mm diam tube.
- **D** : Disturbed sample.
- **SPT** : Standard Penetration Test, N = number of blows to drive 50mm sampler 300mm with a 63.6kg hammer falling 762mm.
- **PP** : Hand penetrometer estimate of unconfined compressive strength, kPa.
- **S** : Vane shear value kPa.
- **DCP** : Dynamic Cone Penetrometer test.

FOUNDATION EARTH SCIENCES

Borehole No: BH4

UTM	: 56H	**Driller Rig**	: Multi Drill	**Job Number**	: E3403-2
Latitude	: -33.82480	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20806	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Elevation	: 88.01(m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 3.1 m	**Date**	: 22/09/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	RL (m)	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples Tests Remarks	Additional Observations	Depth (m)
			88.0			F	Organic Sandy Clay (F): high plasticity, fine grained sand, dark brown, trace fine gravel, trace silt, soft to firm, w = pl.	w ≈ PL	S-F	0.1-0.2		
			87.51	0.5								
			87.0	1.0		CH	Silty Clay (CH): high plasticity, red pale, soft, w = pl.	w ≈ PL	S			1.0
			86.0	2.0								2.0
			85.01	3.0		SST	SANDSTONE: moderately weathered, medium strength, red dark, fine grained, moist.	M	MS			3.0
			85.0				BH4 Refusal at 3.1 m (TC Refusal)					

FOUNDATION EARTH SCIENCES

Borehole No: BH5

UTM	: 56H	**Driller Rig**	: Multi Drill	**Job Number**	: E3403-2
Latitude	: -33.82536	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20788	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Elevation	: 88.94(m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 0.4 m	**Date**	: 24/09/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	RL (m)	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples Tests Remarks	Additional Observations	Depth (m)
			88.84	0.1		PAV	Concrete Pavers.					
			88.74	0.2		F	Clayey Sand (F): well-graded, medium grained, high plasticity clay, light grey, trace fine gravel, very loose to loose, wet.	W	VL-L			
						F	Organic Sandy Clay (F): high plasticity, medium grained sand, grey mottled red, trace silt, firm, w = pl.	w ≈ PL	F	0.2-0.3		
							BH5 Refusal at 0.4 m (TC refusal rock)					

Foundation Earth Sciences

Phone:

Geotechnical Log - Borehole

BH6 / GW3

UTM	: 56H	**Drill Rig**	: Multi Drill	**Job Number**	: E3403-2
Latitude	: -33.82558	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20783	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Ground Elevation	: 86.76 (m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 10 m BGL	**Date**	: 23/09/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram GW3	RL (m)	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples Tests Remarks	Additional Observations	Depth (m)
			86.26	0.5		F	Silty Sandy Clay (F): medium to high plasticity, fine grained sand, brown , dark brown, soft to firm, w = pl.	w ≈ PL	S-F	0.1-0.2		
			86.0	1.0		CL-CI	low to medium plasticity, pale grey to brown.	M		0.5-0.6		
			85.56	1.2			SANDSTONE: moderately weathered, grey, moist.					
			85.0	2.0								
			84.0	3.0								
			83.0	4.0								
			82.0	5.0		SST		M				
			81.0	6.0								
			80.0	7.0								
			79.0	8.0								
			78.0	9.0								
			77.0									
							BH6 / GW3 Refusal at 10 m (TC refusal)					

Water

- Water inflow
- Water outflow
- Ground water Level during drilling

Weathering

- **XW** : Extremely weathered
- **DW** : Distinctly weathered
- **HW** : Highly weathered
- **MW** : Moderately weathered
- **SW** : Slightly weathered
- **FR** : Fresh

Altering

- **XA** : Extremely alterated
- **DA** : Distinctly alterated
- **HA** : Highly alterated
- **MA** : Moderately alterated
- **SA** : Slightly alterated

Consistency

- **VS** : Very soft
- **S** : Soft
- **F** : Firm
- **St** : Stiff
- **VSt** : Very stiff
- **H** : Hard
- **FR** : Friable

Moisture

- **D** : Dry
- **M** : Moist
- **W** : Wet

Density

- **VL** : Very loose
- **L** : Loose
- **MD** : Medium dense
- **D** : Dense
- **VD** : Very dense

Rock Strength

- **VLS** : Very low
- **LS** : Low
- **MS** : Medium
- **HS** : High
- **VH** : Very high
- **XH** : Extremely high

Tests&Results

- **U50** : Undisturbed 50mm diam tube.
- **D** : Disturbed sample.
- **SPT** : Standard Penetration Test, N = number of blows to drive 50mm sampler 300mm with a 63.6kg hammer falling 762mm.
- **PP** : Hand penetrometer estimate of unconfined compressive strength, kPa.
- **S** : Vane shear value kPa.
- **DCP** : Dynamic Cone Penetrometer test.

FOUNDATION EARTH SCIENCES

Borehole No: BH7

UTM	: 56H	**Driller Rig**	: Multi Drill	**Job Number**	: E3403-2
Latitude	: -33.82477	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20817	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Elevation	: 87.74(m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 0.4 m	**Date**	: 23/09/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	RL (m)	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples Tests Remarks	Additional Observations	Depth (m)
			87.44	0.3		F	Sandy Clay (F): high plasticity, fine grained sand, brown, trace silt, very soft, w = pl.	w ≈ PL	VS	0.2-0.3		
						SC	Clayey Sand (SC): well-graded, fine grained, medium to high plasticity clay, light brown, trace silt, loose, moist Large Rocks for service backfill.	M	L			
							BH7 Terminated at 0.4 m (Potential Service Trench)					

FOUNDATION EARTH SCIENCES

Borehole No: BH8

UTM	: 56H	**Driller Rig**	: Multi Drill	**Job Number**	: E3403-2
Latitude	: -33.82491	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20807	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Elevation	: 87.91(m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 0.6 m	**Date**	: 24/09/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	RL (m)	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples Tests Remarks	Additional Observations	Depth (m)
			87.81	0.1		F	Clayey Gravel (F): well-graded, rounded, coarse sized, medium to high plasticity clay, brown, loose, moist Gravel Garden Covering.	M	L			
						F	Silty Clay (F): high plasticity, brown, with medium gravel, firm, w ≈ pl.	w ≈ PL	F	0.2-0.3 0.5-0.6		
							BH8 Terminated at 0.6 m					

FOUNDATION EARTH SCIENCES

Borehole No: BH9

UTM	: 56H	**Driller Rig**	: Hand Auger	**Job Number**	: E3403-2
Latitude	: -33.82508	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20830	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Elevation	: 87.62(m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 0.3 m	**Date**	: 24/09/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	RL (m)	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples Tests Remarks	Additional Observations	Depth (m)
						F	Silty Sandy Clay (F): medium plasticity, fine grained sand, brown, trace medium gravel, very soft to soft.		VS-S	0.1-0.2		
							BH9 Refusal at 0.3 m					

FOUNDATION EARTH SCIENCES

Foundation Earth Sciences

Phone:

Geotechnical Log - Borehole

BH10

UTM	: 56H	**Drill Rig**	: Hand Auger	**Job Number**	: E3403-2
Latitude	: -33.82543	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20819	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Ground Elevation	: 89.37 (m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 1 m BGL	**Date**	: 24/09/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	RL (m)	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples Tests Remarks	Additional Observations	Depth (m)
			89.0			F	Sandy Clay (F): medium plasticity, fine grained sand, brown , grey, trace fine gravel, with silt, very soft.		VS	0.3-0.4		
							BH10 Refusal at 1 m (Refusal Sandstone)					

Water

- Water inflow
- Water outflow
- Ground water Level during drilling

Weathering

- **XW** : Extremely weathered
- **DW** : Distinctly weathered
- **HW** : Highly weathered
- **MW** : Moderately weathered
- **SW** : Slightly weathered
- **FR** : Fresh

Altering

- **XA** : Extremely alterated
- **DA** : Distinctly alterated
- **HA** : Highly alterated
- **MA** : Moderately alterated
- **SA** : Slightly alterated

Consistency

- **VS** : Very soft
- **S** : Soft
- **F** : Firm
- **St** : Stiff
- **VSt** : Very stiff
- **H** : Hard
- **FR** : Friable

Moisture

- **D** : Dry
- **M** : Moist
- **W** : Wet

Density

- **VL** : Very loose
- **L** : Loose
- **MD** : Medium dense
- **D** : Dense
- **VD** : Very dense

Rock Strength

- **VLS** : Very low
- **LS** : Low
- **MS** : Medium
- **HS** : High
- **VH** : Very high
- **XH** : Extremely high

Tests&Results

- **U50** : Undisturbed 50mm diam tube.
- **D** : Disturbed sample.
- **SPT** : Standard Penetration Test, N = number of blows to drive 50mm sampler 300mm with a 63.6kg hammer falling 762mm.
- **PP** : Hand penetrometer estimate of unconfined compressive strength, kPa.
- **S** : Vane shear value kPa.
- **DCP** : Dynamic Cone Penetrometer test.

FOUNDATION EARTH SCIENCES

Borehole No: BH11

UTM	: 56H	**Driller Rig**	: Multi Drill	**Job Number**	: E3403-2
Latitude	: -33.82549	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20801	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Elevation	: 90.12(m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 0.3 m	**Date**	: 24/09/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	RL (m)	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples Tests Remarks	Additional Observations	Depth (m)
		90.020000000001	90.0	0.1		F	Organic Silty Sandy Clay (F): medium to high plasticity, fine grained sand, dark brown, trace fine to medium gravel, soft.		S			
						F	Gravelly Clay (F): medium plasticity, dark brown, With fine sand, trace silt, soft.		VL-S	0.1-0.2		
							BH11 Refusal at 0.3 m (Refusal Large Rocks)					

FOUNDATION EARTH SCIENCES

Borehole No: BH12

UTM	: 56H	**Driller Rig**	: Multi Drill	**Job Number**	: E3403-2
Latitude	: -33.82509	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20789	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Elevation	: 88.80(m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 0.5 m	**Date**	: 24/09/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	RL (m)	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples Tests Remarks	Additional Observations	Depth (m)
			88.6	0.2		F	Sandy Clay (F): medium plasticity, fine grained sand, trace fine to medium gravel, with silt, soft, w ≈ pl.	w ≈ PL	S	0-0.1		
			88.5	0.3		F	Sandy Clay (F): medium plasticity, medium to coarse grained sand, grey, soft, w ≈ pl.	w ≈ PL	S			
						CH	Silty Clay (CH): high plasticity, orange, Trace fine sand, firm, w = pl.	w ≈ PL	F	0.4-0.5		
							BH12 Terminated at 0.5 m					

FOUNDATION EARTH SCIENCES

Foundation Earth Sciences

Phone:

Geotechnical Log - Borehole

BH13

UTM	: 56H	**Drill Rig**	: Hand Auger	**Job Number**	: E3403-2
Latitude	: -33.82519	**Driller Supplier**	: Foundation Earth Sciences	**Client**	: Perifa
Longitude	: 151.20803	**Logged By**	: Daniel Gibbs	**Project**	: Cammeray
Ground Elevation	: 88.9 (m)	**Reviewed By**	: Michael Silk	**Location**	: 19 Rosalind St, Cammeray NSW 2062, Australia
Total Depth	: 0.5 m BGL	**Date**	: 25/09/2025	**Loc Comment**	:

Drilling Method	Water	Well Diagram	RL (m)	Depth (m)	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples Tests Remarks	Additional Observations	Depth (m)
			88.5	0.4		F	Sandy Clay (F): medium plasticity, fine grained sand, brown, trace fine gravel, trace silt, very soft to soft.		VS-S	0.1-0.2		
						F	Sandy Clay (F): medium plasticity, dark brown, trace trace silt, soft to firm.		S-F			
							BH13 Refusal at 0.5 m (Hand Auger Refusal)					

Water

- Water inflow
- Water outflow
- Ground water Level during drilling

Weathering

- **XW** : Extremely weathered
- **DW** : Distinctly weathered
- **HW** : Highly weathered
- **MW** : Moderately weathered
- **SW** : Slightly weathered
- **FR** : Fresh

Altering

- **XA** : Extremely alterated
- **DA** : Distinctly alterated
- **HA** : Highly alterated
- **MA** : Moderately alterated
- **SA** : Slightly alterated

Consistency

- **VS** : Very soft
- **S** : Soft
- **F** : Firm
- **St** : Stiff
- **VSt** : Very stiff
- **H** : Hard
- **FR** : Friable

Moisture

- **D** : Dry
- **M** : Moist
- **W** : Wet

Density

- **VL** : Very loose
- **L** : Loose
- **MD** : Medium dense
- **D** : Dense
- **VD** : Very dense

Rock Strength

- **VLS** : Very low
- **LS** : Low
- **MS** : Medium
- **HS** : High
- **VH** : Very high
- **XH** : Extremely high

Tests&Results

- **U50** : Undisturbed 50mm diam tube.
- **D** : Disturbed sample.
- **SPT** : Standard Penetration Test, N = number of blows to drive 50mm sampler 300mm with a 63.6kg hammer falling 762mm.
- **PP** : Hand penetrometer estimate of unconfined compressive strength, kPa.
- **S** : Vane shear value kPa.
- **DCP** : Dynamic Cone Penetrometer test.

FOUNDATION EARTH SCIENCES

METHODS OF SOIL DESCRIPTION USED ON BOREHOLE LOGS

FILL	ORGANIC SOILS (OL, OH, Pt)	CLAY (CL, CI, or CH)
COUBLES or BOULDERS	SILT (ML or MH)	SAND (SP or SW)
GRAVEL (GP or GW)	Combinations of these basic symbols may be sued to indicate mixed materials	

CLASSIFICATION AND INFERRED STRATIGRAPHY

Soil is broadly classified and described in borehole logs using the preferred method given in AS 1726:2017, section 6.1 soil descriptions and classification.

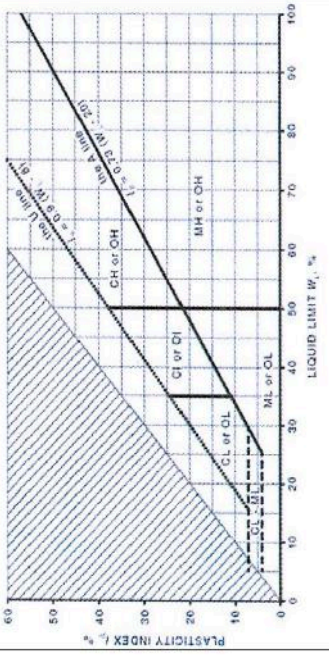
GROUP SYMBOLS

MAJOR DIVISIONS		SYMBOL	DESCRIPTION
COARSE GRAINED SOILS More than 65% of the soil excluding oversize fraction is greater than 0.075mm	GRAVEL More than 50% of the coarse fraction is >2.36mm	GW	Well graded gravel and gravel-sand mixtures, little or no fines.
		GP	Poorly graded gravel and gravel-sand mixtures, little or no fines.
		GM	Silty gravel, gravel-sand-clay mixtures.
		GC	Clayey gravel, gravel-sand-clay mixtures.
	SAND More than 50% of the coarse fraction is <2.36mm	SW	Well graded sand and gravelly sand, little or no fines.
		SP	Poorly graded sand and gravelly sand, little or no fines.
		SM	Silty sand, sand- silt mixtures.
		SC	Clayey sand, sandy -clay mixtures.
FINE GRAINED SOILS More than 35% of the soil excluding oversize fraction is less than 0.075mm	Liquid limit less <50%	ML	Inorganic silts of low plasticity, very fine sands, rock flour, silty or clayey fine sands.
		CL, CI	Inorganic slays of low to medium plasticity, gravely clays, sandy clays, silty clays
		OL	Organic silts and organic silty clays of low plasticity.
	Liquid limit > than 50%	MH	Inorganic silts of high plasticity.
		CH	Inorganic clays of high plasticity.
		OH	Organic clays of medium to high plasticity.
	Highly organic Soil	PT	Peat muck and other highly organic soils.

PARTICLE SIZE CHARACTERISTICS

Fraction	Components	Subdivision	Size mm
Oversize	BOULDERS		>200
	COBBLES		63-200
	GRAVEL	Coarse	19-63
		Medium	6.7-19
		Fine	2.36-6.7
	SAND	Coarse	0.6-2.36
		Medium	0.21-0.6
		Fine	0.075-0.21
	SILT		0.002-0.075
	CLAY		<0.002

PLASTICITY PREOPERTIES



FOUNDATION EARTH SCIENCES

ABBREVIATIONS AND DESCRIPTIONS FOR ROCK MATERIAL AND DEFECTS

MOISTURE CONDITION

Symbol	Term	Description
D	Dry	Non-cohesive and free running
M	Moist	Soils feel cool, darkened in colour. Soil tends to stick together.
W	Wet	Soils feel cool, darkened in colour. Soil tends to stick together, free water forms when handling.

Moisture content of cohesive soils shall be described in relation to plastic limit (PL) or liquid limit (LL) for soils with higher moisture content as follows: Moist, dry of plastic limit (w <PL); Moist, near plastic limit (w = PL); Moist, wet of plastic limit (w<PL); Wet, near liquid limit (w=LL), Wet, wet of liquid limit (w>LL),

CONSISTENCY

Symbol	Term	Undrained Shear Strength (kPa)	SPT "N" #
VS	Very Soft	< 12	<2
S	Soft	>12 to <25	>2 to <4
F	Firm	>25 to <50	>4 to < 8
St	Stiff	>50 to <100	>8 to 15
H	Hard	>200	>30
Fr	Friable	-	

DENSITY

Symbol	Term	Density Index %	SPT "N" #
VL	Very Loose	<15	0 to 4
L	Loose	>15 to <35	4 to 10
MD	Medium Density	>65 to < 85	10 to 30
D	Dense	>65 to <85	30 to 50

In the absence of test results, consistency and density may be assessed from correlations with the observed behaviour of the material. #SPT correlations are not stated in AS1726:2017 and may be subject to corrections for overburden pressure and equipment type.

MINOR COMPONENTS

TERM	ASSESSMENT GUIDE	PROPORTION BY MASS
Trace	Presence just detectable by feel or eye but soil properties little or no difference to general properties of primary component	Coarse grained soils: <%5 Fine grained soils: <15%
With	Presence easily detectable by feel or eye but soil properties little or no difference to general properties of primary component	Coarse grained soils: 5-12% Fine grained soils: 15-30%
Prefix	Presence easily detectable by feel or eye in conjunction with the general properties of primary component	Coarse grained soils: >12% Fine grained soils: >30%

CLASSIFICATION AND INFERRED STRATIGRAPHY

Rock is broadly classified and described in borehole logs using the preferred method given in AS 1726:2017, section 6.2 Rock identification, descriptions, and classification.

ROCK MATERIAL DESCRIPTION

Layering

Term	Description
Massive	No Layering apparent
Poorly Developed	Layering just visible; little effect on properties
Well Developed	Layering (bedding, foliation, cleavage) distinct; rock breaks more easily parallel to layering

Structure

Term	Spacing (mm)
Thinly Laminated	<6
Laminated	6-20
Very thinly bedded	20-60
Thinly bedded	60-200
Medium bedded	200-600
Thickly bedded	600-2,000
Very thickly bedded	>2,000

ABBREVIATIONS AND DESCRIPTIONS FOR DEFECT TYPES

Defect Type	Abbr.	Description
Joint	JT	Surface of a fracture or parting, formed without displacement, across which the rock has little or no tensile strength. May be closed or filled by ait, water, soil, or rock substance, which acts as cement.
Bedded Parting	BP	Surface of facture or parting, across which the rock has little or no tensile strength, parallel of sub-parallel to layering/bedding. Bedding refers to the layering or stratification of a rock, indicating orientation during deposition, resulting in planar anisotropy in the rock material.
Foliation	FL	Repetitive planar structure parallel to the shear direction or perpendicular to the direction of higher pressure, especially in the metamorphic rock, e.g., schistosity (SH)) and Gneissosity.
Contact	CO	The surface between two types or ages of rock.
Cleavage	CL	Cleavage planes appear as parallel, closely spaced, and planar surfaces resulting from mechanical fracturing of rock through deformation or metamorphism, independent of bedding.
Sheared Seam/ Zone (Fault)	SS/SZ	Seam or zone with roughly parallel almost planar boundaries of rock substance cut by closely space (often <50mm) parallel and usually smooth or slickensided joints or cleavage planes.
Crushed seam/ Zone (Fault)	CS/CZ	Seam or zone composed of disoriented usually angular fragments of the host rock substance, with rough parallel near-planar boundaries. The brecciated fragments may be of clay, silt, sand or gravel sizes or mixtures of these.
Decomposed seam/Zone	DS/DZ	Seam of soil substance, often with gradational boundaries, formed by weathering of the rock material in places.
Infilled Seam	IS	Seam of soil substance, usually clay or clayey, with very distinct roughly parallel boundaries, formed by soil migrating into joint or open cavity.
Schistocity	SH	The foliation in schist or other coarse grained crystalline rock due to the parallel arrangement of platy or prismatic mineral grains, such as mica.
Vein	VN	Distinct sheet-like body of minerals crystallised within rock through typically open-space filling or crack-seal growth.

ABBREVIATIONS AND DESCRIPTIONS FOR DEFECT SHAPE AND ROUGHNESS

Shape	Abbr.	Description	Roughness	Abbr.	Description
Planar	Pl	Consistent Orientation	Polished	Pol	Shiny smooth surface
Curved	Cu	Gradual change in orientation	Slickensided	SL	Grooved or stained surface, usually polished
Undulating	Un	Wavy surface	Smooth	S	Smooth to touch. Few or no surface irregularities
Stepped	St	One or more well defined steps	Rough	RF	Many small surface irregularities, amplitude generally <1mm. Feels like fine to coarse sandpaper
Irregular	Ir	Many sharp changes in orientation	Very Rough	VR	Many large surface irregularities, amplitude generally >1mm. Feels like very coarse sandpaper.

Orientation: **Vertical Boreholes-** The dip (inclination from horizontal) of the defect.
Inclined Boreholes- The inclination is measured as the acute angle to the core axis.

ABBREVIATIONS AND DESCRIPTIONS FOR DEFECT COATING

Coating	Abbr.	Description
Clean	CN	No Visible coating or infilling
Stain	SN	No visible coating but surfaces are discoloured by staining, often limonite (orange-brown)
Veneer	VNR	A visible coating of soil or mineral substances, usually too thin to measure (<1mm); may be patchy

DEFECT APERTURE

Aperture	Abbr.	Description
Closed	CL	Closed.
Open	O	Without any infill material
Infilled	-	Soil or rock i.e., clay, talc, pyrite, quartz, etc.

TERMS FOR ROCK MATERIAL STRENGTH AND WEATHERING

CLASSIFICATION AND INFERRED STRATIGRAPHY

Rock is broadly classified and described in borehole logs using the preferred method given in AS 1726:2017, section 6.2 Rock identification, descriptions, and classification.

ROCK MATERIAL STRENGTH CLASSIFICATION

Symbol	Term	Point Load Index Is

APPENDIX H: NATA ACCREDICTED LABORATORY CERTIFICATES

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Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Foundation Earth Sciences Pty Ltd
Attention	Michael Silk

Sample Login Details

Your reference	E3403-2 Cammeray
Envirolab Reference	392296
Date Sample Received	03/10/2025
Date Instructions Received	03/10/2025
Date Results Expected to be Reported	13/10/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	HM in water - dissolved
SS1	✓	✓	✓	✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info
Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Coc: 3/10/25 1710

FOUNDATION EARTH SCIENCES

Chain of Custody Record

Client Details:	Foundation Earth Sciences PO Box 4405, East Gosford NSW 2250 email: ben@foundationes.com.au michael@foundationes.com.au; D.gibbs@foundationes.com.au khy@foundationes.com.au ph: +61466 385 221	**Project Manager:**	Michael Silk
Delivery Details:	Envirolab Pty Ltd - Sydney Office 12 Ashley Street, Chatswood NSW 2067 email: ahle@envirolab.com.au ph: +612 9910 6200	**Sampled By:**	DG
		Purchase Order #:	N/A
		Page #:	1
Project #:	E3403-2		
Project Name:	Cammeray		
Turnaround time:	Standard		

#	Sample ID	Depth	Date Sampled	Matrix	Analytes: Heavy Metals (8)	TRH	BTEXN	PAH Low	VOC	TRH C6-C10 & BTEXN	PFAS						Envirolab Suites	Sample Comments
1	SS1	-	03/10/25	Water	X	X	X	X	X								Combo3L	Keep

Special Directions and Comments:

Relinquished by	Daniel Gibbs	**Received By**	ONIRGH	**Method of shipment**
Signature	DG	**Signature**	0.Uy 3/10/25	Courier
Date	03/10/25	**Date**		

ENVIROLAB GROUP

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 392296

Date Received: 3/10/25
Time Received: 1600
Received By: ON
Temp: ~~Cool/Ambient~~
Cooling: ~~Ice/Icepack~~
Security: ~~Intact/Broken/None~~

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 392296

Client Details

Client	Foundation Earth Sciences Pty Ltd
Attention	Michael Silk
Address	PO Box 4405, East Gosford, NSW, 2250

Sample Details

Your Reference	**E3403-2 Cammeray**
Number of Samples	1 Water
Date samples received	03/10/2025
Date completed instructions received	03/10/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client unless as indicated below in the method summaries. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	13/10/2025
Date of Issue	10/10/2025

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Jack Wallis, Senior Chemist
Tabitha Roberts, Senior Chemist
Timothy Toll, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in water		
Our Reference		392296-1
Your Reference	UNITS	SS1
Date Sampled		03/10/2025
Type of sample		Water
Date Extracted	-	07/10/2025
Date Analysed	-	08/10/2025
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	4
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1

VOCs in water		
Our Reference		392296-1
Your Reference	UNITS	SS1
Date Sampled		03/10/2025
Type of sample		Water
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	101
Surrogate Toluene-d8	%	98
Surrogate 4-Bromofluorobenzene	%	100

vTRH(C6-C10)/BTEXN in Water		
Our Reference		392296-1
Your Reference	UNITS	SS1
Date Sampled		03/10/2025
Type of sample		Water
Date extracted	-	07/10/2025
Date analysed	-	08/10/2025
TRH C_6 - C_9	µg/L	<10
TRH C_6 - C_{10}	µg/L	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	101
Surrogate Toluene-d8	%	98
Surrogate 4-Bromofluorobenzene	%	100

svTRH (C10-C40) in Water		
Our Reference		392296-1
Your Reference	UNITS	SS1
Date Sampled		03/10/2025
Type of sample		Water
Date extracted	-	07/10/2025
Date analysed	-	08/10/2025
TRH C_{10} - C_{14}	µg/L	<50
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	<50
TRH >C_{10} - C_{16}	µg/L	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	<50
Surrogate o-Terphenyl	%	86

PAHs in Water		
Our Reference		392296-1
Your Reference	UNITS	SS1
Date Sampled		03/10/2025
Type of sample		Water
Date extracted	-	07/10/2025
Date analysed	-	08/10/2025
Naphthalene	µg/L	<0.1
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	<0.1
Surrogate p-Terphenyl-d14	%	84

HM in water - dissolved		
Our Reference		392296-1
Your Reference	UNITS	SS1
Date Sampled		03/10/2025
Type of sample		Water
Date prepared	-	07/10/2025
Date analysed	-	07/10/2025
Arsenic-Dissolved	µg/L	<1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	<1
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	9
Zinc-Dissolved	µg/L	24

Method ID	Methodology Summary
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date Extracted	-			07/10/2025	[NT]	[NT]	[NT]	[NT]	07/10/2025	[NT]
Date Analysed	-			08/10/2025	[NT]	[NT]	[NT]	[NT]	08/10/2025	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	89	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	84	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	83	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	83	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	85	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	87	[NT]
Styrene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate Toluene-d8	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			07/10/2025	[NT]	[NT]	[NT]	[NT]	07/10/2025	[NT]
Date analysed	-			08/10/2025	[NT]	[NT]	[NT]	[NT]	08/10/2025	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	87	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	87	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	88	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	87	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate Toluene-d8	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			07/10/2025	[NT]	[NT]	[NT]	[NT]	07/10/2025	[NT]
Date analysed	-			07/10/2025	[NT]	[NT]	[NT]	[NT]	07/10/2025	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	99	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	108	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	99	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	108	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	86	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			07/10/2025	[NT]	[NT]	[NT]	[NT]	07/10/2025	[NT]
Date analysed	-			08/10/2025	[NT]	[NT]	[NT]	[NT]	08/10/2025	[NT]
Naphthalene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	77	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	85	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	93	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	[NT]
Date prepared	-			07/10/2025	[NT]	[NT]	[NT]	[NT]	07/10/2025	[NT]
Date analysed	-			07/10/2025	[NT]	[NT]	[NT]	[NT]	07/10/2025	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	91	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Ben Buckley
Client	FOUNDATION EARTH SCIENCES PTY LTD
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Email	ben@foundationes.com.au
Project	**E3403-2 Cammeray**
Order Number	**E3403-2**
Samples	6

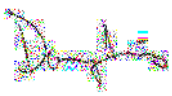
LABORATORY DETAILS

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SGS Reference	**SE290558 R0**
Date Received	3/10/2025
Date Reported	13/10/2025

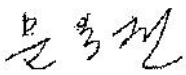
COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES



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Metals/Inorganics Team Leader



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Ly Kim HA
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VOCs in Water [AN433] Tested: 10/10/2025

PARAMETER	UOM	LOR	GW1 WATER - 3/10/2025 SE290558.001	GW2 WATER - 3/10/2025 SE290558.002	GW3 WATER - 3/10/2025 SE290558.003	D1 WATER - 3/10/2025 SE290558.004	TS WATER - 3/10/2025 SE290558.005
Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	<5	<5	<5	-
Chloromethane	µg/L	5	<5	<5	<5	<5	-
Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	<0.3	<0.3	<0.3	-
Bromomethane	µg/L	10	<10	<10	<10	<10	-
Chloroethane	µg/L	5	<5	<5	<5	<5	-
Trichlorofluoromethane	µg/L	1	<1	<1	<1	<1	-
Acetone (2-propanone)	µg/L	10	<10	<10	<10	<10	-
Iodomethane	µg/L	5	<5	<5	<5	<5	-
1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Acrylonitrile	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Dichloromethane (Methylene chloride)	µg/L	5	<5	<5	<5	<5	-
Allyl chloride	µg/L	2	<2	<2	<2	<2	-
Carbon disulfide	µg/L	2	<2	<2	<2	<2	-
trans-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<1↑	<1↑	<1↑	<1↑	-
1,1-dichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Vinyl acetate*	µg/L	10	<10	<10	<10	<10	-
MEK (2-butanone)	µg/L	10	<10	<10	<10	<10	-
cis-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Bromochloromethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Chloroform (THM)	µg/L	0.5	**4.9**	**4.7**	**2.8**	**4.8**	-
2,2-dichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,2-dichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,1,1-trichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,1-dichloropropene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Carbon tetrachloride	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	[100%]
Dibromomethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,2-dichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
2-nitropropane	µg/L	100	<100	<100	<100	<100	-
Bromodichloromethane (THM)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
MIBK (4-methyl-2-pentanone)	µg/L	5	<5	<5	<5	<5	-
cis-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
trans-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,1,2-trichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	[99%]
1,3-dichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Dibromochloromethane (THM)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
2-hexanone (MBK)	µg/L	5	<5	<5	<5	<5	-
1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Chlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	[99%]
Bromoform (THM)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
m/p-xylene	µg/L	1	<1	<1	<1	<1	[99%]
Styrene (Vinyl benzene)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	[100%]
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	-
1,2,3-trichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
trans-1,4-dichloro-2-butene	µg/L	1	<1	<1	<1	<1	-
Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Bromobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
n-propylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-

VOCs in Water [AN433] Tested: 10/10/2025 (continued)

PARAMETER	UOM	LOR	GW1 WATER - 3/10/2025 SE290558.001	GW2 WATER - 3/10/2025 SE290558.002	GW3 WATER - 3/10/2025 SE290558.003	D1 WATER - 3/10/2025 SE290558.004	TS WATER - 3/10/2025 SE290558.005
2-chlorotoluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
4-chlorotoluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,3,5-trimethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
tert-butylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,2,4-trimethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
sec-butylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,3-dichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,4-dichlorobenzene	µg/L	0.3	<0.3	<0.3	<0.3	<0.3	-
p-isopropyltoluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,2-dichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
n-butylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,2,4-trichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	[96%]
Hexachlorobutadiene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
1,2,3-trichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	-
Total BTEX	µg/L	3	<3	<3	<3	<3	-
Total VOC	µg/L	10	<10	<10	<10	<10	-

VOCs in Water [AN433] Tested: 10/10/2025 (continued)

PARAMETER	UOM	LOR	TB WATER - 3/10/2025 SE290558.006
Dichlorodifluoromethane (CFC-12)	µg/L	5	<5
Chloromethane	µg/L	5	<5
Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3
Bromomethane	µg/L	10	<10
Chloroethane	µg/L	5	<5
Trichlorofluoromethane	µg/L	1	<1
Acetone (2-propanone)	µg/L	10	<10
Iodomethane	µg/L	5	<5
1,1-dichloroethene	µg/L	0.5	<0.5
Acrylonitrile	µg/L	0.5	<0.5
Dichloromethane (Methylene chloride)	µg/L	5	<5
Allyl chloride	µg/L	2	<2
Carbon disulfide	µg/L	2	<2
trans-1,2-dichloroethene	µg/L	0.5	<0.5
MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<1↑
1,1-dichloroethane	µg/L	0.5	<0.5
Vinyl acetate*	µg/L	10	<10
MEK (2-butanone)	µg/L	10	<10
cis-1,2-dichloroethene	µg/L	0.5	<0.5
Bromochloromethane	µg/L	0.5	<0.5
Chloroform (THM)	µg/L	0.5	<0.5
2,2-dichloropropane	µg/L	0.5	<0.5
1,2-dichloroethane	µg/L	0.5	<0.5
1,1,1-trichloroethane	µg/L	0.5	<0.5
1,1-dichloropropene	µg/L	0.5	<0.5
Carbon tetrachloride	µg/L	0.5	<0.5
Benzene	µg/L	0.5	<0.5
Dibromomethane	µg/L	0.5	<0.5
1,2-dichloropropane	µg/L	0.5	<0.5
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5
2-nitropropane	µg/L	100	<100
Bromodichloromethane (THM)	µg/L	0.5	<0.5
MIBK (4-methyl-2-pentanone)	µg/L	5	<5
cis-1,3-dichloropropene	µg/L	0.5	<0.5
trans-1,3-dichloropropene	µg/L	0.5	<0.5
1,1,2-trichloroethane	µg/L	0.5	<0.5
Toluene	µg/L	0.5	<0.5
1,3-dichloropropane	µg/L	0.5	<0.5
Dibromochloromethane (THM)	µg/L	0.5	<0.5
2-hexanone (MBK)	µg/L	5	<5
1,2-dibromoethane (EDB)	µg/L	0.5	<0.5
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5
1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5
Chlorobenzene	µg/L	0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5
Bromoform (THM)	µg/L	0.5	<0.5
m/p-xylene	µg/L	1	<1
Styrene (Vinyl benzene)	µg/L	0.5	<0.5
1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5
o-xylene	µg/L	0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5
1,2,3-trichloropropane	µg/L	0.5	<0.5
trans-1,4-dichloro-2-butene	µg/L	1	<1
Isopropylbenzene (Cumene)	µg/L	0.5	<0.5
Bromobenzene	µg/L	0.5	<0.5
n-propylbenzene	µg/L	0.5	<0.5

VOCs in Water [AN433] Tested: 10/10/2025 (continued)

PARAMETER	UOM	LOR	TB WATER - 3/10/2025 SE290558.006
2-chlorotoluene	µg/L	0.5	<0.5
4-chlorotoluene	µg/L	0.5	<0.5
1,3,5-trimethylbenzene	µg/L	0.5	<0.5
tert-butylbenzene	µg/L	0.5	<0.5
1,2,4-trimethylbenzene	µg/L	0.5	<0.5
sec-butylbenzene	µg/L	0.5	<0.5
1,3-dichlorobenzene	µg/L	0.5	<0.5
1,4-dichlorobenzene	µg/L	0.3	<0.3
p-isopropyltoluene	µg/L	0.5	<0.5
1,2-dichlorobenzene	µg/L	0.5	<0.5
n-butylbenzene	µg/L	0.5	<0.5
1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5
1,2,4-trichlorobenzene	µg/L	0.5	<0.5
Naphthalene (VOC)*	µg/L	0.5	<0.5
Hexachlorobutadiene	µg/L	0.5	<0.5
1,2,3-trichlorobenzene	µg/L	0.5	<0.5
Total BTEX	µg/L	3	<3
Total VOC	µg/L	10	<10

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 10/10/2025

PARAMETER	UOM	LOR	GW1 WATER - 3/10/2025 SE290558.001	GW2 WATER - 3/10/2025 SE290558.002	GW3 WATER - 3/10/2025 SE290558.003	D1 WATER - 3/10/2025 SE290558.004
TRH C6-C9	µg/L	40	<40	<40	<40	<40
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	50	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 8/10/2025

PARAMETER	UOM	LOR	GW1 WATER - 3/10/2025 SE290558.001	GW2 WATER - 3/10/2025 SE290558.002	GW3 WATER - 3/10/2025 SE290558.003	D1 WATER - 3/10/2025 SE290558.004
TRH C10-C14	µg/L	50	<50	<50	<50	<50
TRH C15-C28	µg/L	200	<200	<200	<200	<200
TRH C29-C36	µg/L	200	<200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200
TRH >C10-C16	µg/L	60	<60	<60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500
TRH C10-C40	µg/L	320	<320	<320	<320	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 8/10/2025

PARAMETER	UOM	LOR	GW3 WATER - 3/10/2025 SE290558.003
Naphthalene	µg/L	0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1
Fluorene	µg/L	0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1
Anthracene	µg/L	0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1
Pyrene	µg/L	0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1
Chrysene	µg/L	0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Total PAH (18)	µg/L	1	<1

Low Level PAH (Poly Aromatic Hydrocarbons) in Water [AN420] Tested: 8/10/2025

PARAMETER	UOM	LOR	GW1 WATER - 3/10/2025 SE290558.001	GW2 WATER - 3/10/2025 SE290558.002	D1 WATER - 3/10/2025 SE290558.004
Naphthalene	µg/L	0.02	<0.02	<0.02	<0.02
2-methylnaphthalene	µg/L	0.01	<0.01	<0.01	<0.01
1-methylnaphthalene	µg/L	0.01	<0.01	<0.01	<0.01
Acenaphthylene	µg/L	0.01	<0.01	<0.01	<0.01
Acenaphthene	µg/L	0.01	<0.01	<0.01	<0.01
Fluorene	µg/L	0.01	<0.01	<0.01	<0.01
Phenanthrene	µg/L	0.01	<0.01	<0.01	<0.01
Anthracene	µg/L	0.01	<0.01	<0.01	<0.01
Fluoranthene	µg/L	0.01	<0.01	<0.01	<0.01
Pyrene	µg/L	0.01	<0.01	<0.01	<0.01
Benzo(a)anthracene	µg/L	0.01	<0.01	<0.01	<0.01
Chrysene	µg/L	0.01	<0.01	<0.01	<0.01
Benzo(b&j&k)fluoranthene	µg/L	0.02	<0.02	<0.02	<0.02
Benzo(a)pyrene	µg/L	0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.01	<0.01	<0.01	<0.01
Dibenzo(ah)anthracene	µg/L	0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	µg/L	0.01	<0.01	<0.01	<0.01
Carcinogenic PAHs (as BaP TEQ) - assume non	TEQ (µg/L)	0.012	<0.012	<0.012	<0.012
Total PAH VIC EPA Guidelines (16)*	µg/L	0.1	<0.1	<0.1	<0.1
Total PAH (18)*	µg/L	0.1	<0.1	<0.1	<0.1

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 9/10/2025

PARAMETER	UOM	LOR	GW1 WATER - 3/10/2025 SE290558.001	GW2 WATER - 3/10/2025 SE290558.002	GW3 WATER - 3/10/2025 SE290558.003	D1 WATER - 3/10/2025 SE290558.004
Lead	µg/L	1	<1	<1	<1	<1

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used.
AN403	Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoveerable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken . This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting .
AN420	Carcinogenic PAHs may be expressed as Benzo(a)pyrene equivalents by applying the BaP toxicity equivalence factor (NEPM 1999, June 2013, B7). These can be reported as the individual PAHs and as a sum of carcinogenic PAHs. The sum is reported three ways, the first assuming all <LOR results are zero, the second assuming all < LOR results are half the LOR and the third assuming all <LOR results are the LOR.
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR			
***	Indicates that both * and ** apply.		Sample listed, but not received.		
NAD	No Asbestos Detected.	NA	Not Applicable.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE290558 R0

CLIENT DETAILS

Contact	Ben Buckley
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Email	ben@foundationes.com.au
Project	**E3403-2 Cammeray**
Order Number	**E3403-2**
Samples	6

LABORATORY DETAILS

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SGS Reference	**SE290558 R0**
Date Received	03 Oct 2025
Date Reported	13 Oct 2025

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Surrogate	Low Level PAH (Poly Aromatic Hydrocarbons) in Water	1 item

SAMPLE SUMMARY

Sample counts by matrix	6 Water	Date documentation received	3/10/2025
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	21°C	Turnaround time requested	Standard
Sample cooling method	Ice Bricks		

HOLDING TIME SUMMARY

SE290558 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Low Level PAH (Poly Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE290558.001	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	10 Oct 2025
GW2	SE290558.002	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	10 Oct 2025
GW3	SE290558.003	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	13 Oct 2025
D1	SE290558.004	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	10 Oct 2025
TS	SE290558.005	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	13 Oct 2025
TB	SE290558.006	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	13 Oct 2025

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE290558.001	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	13 Oct 2025
GW2	SE290558.002	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	13 Oct 2025
GW3	SE290558.003	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	10 Oct 2025
D1	SE290558.004	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	13 Oct 2025
TS	SE290558.005	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	13 Oct 2025
TB	SE290558.006	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	13 Oct 2025

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE290558.001	LB364100	03 Oct 2025	03 Oct 2025	01 Apr 2026	09 Oct 2025	01 Apr 2026	10 Oct 2025
GW2	SE290558.002	LB364100	03 Oct 2025	03 Oct 2025	01 Apr 2026	09 Oct 2025	01 Apr 2026	10 Oct 2025
GW3	SE290558.003	LB364100	03 Oct 2025	03 Oct 2025	01 Apr 2026	09 Oct 2025	01 Apr 2026	10 Oct 2025
D1	SE290558.004	LB364100	03 Oct 2025	03 Oct 2025	01 Apr 2026	09 Oct 2025	01 Apr 2026	10 Oct 2025

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE290558.001	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	10 Oct 2025
GW2	SE290558.002	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	10 Oct 2025
GW3	SE290558.003	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	10 Oct 2025
D1	SE290558.004	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	10 Oct 2025
TS	SE290558.005	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	10 Oct 2025
TB	SE290558.006	LB363868	03 Oct 2025	03 Oct 2025	10 Oct 2025	08 Oct 2025	17 Nov 2025	10 Oct 2025

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE290558.001	LB364241	03 Oct 2025	03 Oct 2025	17 Oct 2025	10 Oct 2025	17 Oct 2025	13 Oct 2025
GW2	SE290558.002	LB364241	03 Oct 2025	03 Oct 2025	17 Oct 2025	10 Oct 2025	17 Oct 2025	13 Oct 2025
GW3	SE290558.003	LB364241	03 Oct 2025	03 Oct 2025	17 Oct 2025	10 Oct 2025	17 Oct 2025	13 Oct 2025
D1	SE290558.004	LB364241	03 Oct 2025	03 Oct 2025	17 Oct 2025	10 Oct 2025	17 Oct 2025	13 Oct 2025
TS	SE290558.005	LB364241	03 Oct 2025	03 Oct 2025	17 Oct 2025	10 Oct 2025	17 Oct 2025	13 Oct 2025
TB	SE290558.006	LB364241	03 Oct 2025	03 Oct 2025	17 Oct 2025	10 Oct 2025	17 Oct 2025	13 Oct 2025

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE290558.001	LB364241	03 Oct 2025	03 Oct 2025	17 Oct 2025	10 Oct 2025	17 Oct 2025	13 Oct 2025
GW2	SE290558.002	LB364241	03 Oct 2025	03 Oct 2025	17 Oct 2025	10 Oct 2025	17 Oct 2025	13 Oct 2025
GW3	SE290558.003	LB364241	03 Oct 2025	03 Oct 2025	17 Oct 2025	10 Oct 2025	17 Oct 2025	13 Oct 2025
D1	SE290558.004	LB364241	03 Oct 2025	03 Oct 2025	17 Oct 2025	10 Oct 2025	17 Oct 2025	13 Oct 2025
TS	SE290558.005	LB364241	03 Oct 2025	03 Oct 2025	17 Oct 2025	10 Oct 2025	17 Oct 2025	13 Oct 2025
TB	SE290558.006	LB364241	03 Oct 2025	03 Oct 2025	17 Oct 2025	10 Oct 2025	17 Oct 2025	13 Oct 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Low Level PAH (Poly Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	GW1	SE290558.001	%	40 - 130%	49
	GW2	SE290558.002	%	40 - 130%	57
	D1	SE290558.004	%	40 - 130%	56
d14-p-terphenyl (Surrogate)	GW1	SE290558.001	%	40 - 130%	63
	GW2	SE290558.002	%	40 - 130%	65
	D1	SE290558.004	%	40 - 130%	60
d5-nitrobenzene (Surrogate)	GW1	SE290558.001	%	40 - 130%	40 ⓘ
	GW2	SE290558.002	%	40 - 130%	57
	D1	SE290558.004	%	40 - 130%	58

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	GW3	SE290558.003	%	40 - 130%	68
d14-p-terphenyl (Surrogate)	GW3	SE290558.003	%	40 - 130%	63
d5-nitrobenzene (Surrogate)	GW3	SE290558.003	%	40 - 130%	67

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	GW1	SE290558.001	%	40 - 130%	100
	GW2	SE290558.002	%	40 - 130%	99
	GW3	SE290558.003	%	40 - 130%	99
	D1	SE290558.004	%	40 - 130%	100
	TS	SE290558.005	%	40 - 130%	92
	TB	SE290558.006	%	40 - 130%	99
d4-1,2-dichloroethane (Surrogate)	GW1	SE290558.001	%	40 - 130%	84
	GW2	SE290558.002	%	40 - 130%	85
	GW3	SE290558.003	%	40 - 130%	87
	D1	SE290558.004	%	40 - 130%	84
	TS	SE290558.005	%	40 - 130%	98
	TB	SE290558.006	%	40 - 130%	87
d8-toluene (Surrogate)	GW1	SE290558.001	%	40 - 130%	90
	GW2	SE290558.002	%	40 - 130%	90
	GW3	SE290558.003	%	40 - 130%	89
	D1	SE290558.004	%	40 - 130%	90
	TS	SE290558.005	%	40 - 130%	102
	TB	SE290558.006	%	40 - 130%	89

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	GW1	SE290558.001	%	40 - 130%	100
	GW2	SE290558.002	%	40 - 130%	99
	GW3	SE290558.003	%	40 - 130%	99
	D1	SE290558.004	%	40 - 130%	100
d4-1,2-dichloroethane (Surrogate)	GW1	SE290558.001	%	60 - 130%	84
	GW2	SE290558.002	%	60 - 130%	85
	GW3	SE290558.003	%	60 - 130%	87
	D1	SE290558.004	%	60 - 130%	84
d8-toluene (Surrogate)	GW1	SE290558.001	%	40 - 130%	90
	GW2	SE290558.002	%	40 - 130%	90
	GW3	SE290558.003	%	40 - 130%	89
	D1	SE290558.004	%	40 - 130%	90

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Low Level PAH (Poly Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB363868.001		Naphthalene	µg/L	0.02	<0.02
		2-methylnaphthalene	µg/L	0.01	<0.01
		1-methylnaphthalene	µg/L	0.01	<0.01
		Acenaphthylene	µg/L	0.01	<0.01
		Acenaphthene	µg/L	0.01	<0.01
		Fluorene	µg/L	0.01	<0.01
		Phenanthrene	µg/L	0.01	<0.01
		Anthracene	µg/L	0.01	<0.01
		Fluoranthene	µg/L	0.01	<0.01
		Pyrene	µg/L	0.01	<0.01
		Benzo(a)anthracene	µg/L	0.01	<0.01
		Chrysene	µg/L	0.01	<0.01
		Benzo(b&j&k)fluoranthene	µg/L	0.02	<0.02
		Benzo(a)pyrene	µg/L	0.01	<0.01
		Indeno(1,2,3-cd)pyrene	µg/L	0.01	<0.01
		Dibenzo(ah)anthracene	µg/L	0.01	<0.01
		Benzo(ghi)perylene	µg/L	0.01	<0.01
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	68
		2-fluorobiphenyl (Surrogate)	%	-	70
		d14-p-terphenyl (Surrogate)	%	-	72

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB363868.001		Naphthalene	µg/L	0.1	<0.1
		2-methylnaphthalene	µg/L	0.1	<0.1
		1-methylnaphthalene	µg/L	0.1	<0.1
		Acenaphthylene	µg/L	0.1	<0.1
		Acenaphthene	µg/L	0.1	<0.1
		Fluorene	µg/L	0.1	<0.1
		Phenanthrene	µg/L	0.1	<0.1
		Anthracene	µg/L	0.1	<0.1
		Fluoranthene	µg/L	0.1	<0.1
		Pyrene	µg/L	0.1	<0.1
		Benzo(a)anthracene	µg/L	0.1	<0.1
		Chrysene	µg/L	0.1	<0.1
		Benzo(a)pyrene	µg/L	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1
		Benzo(ghi)perylene	µg/L	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	74
		2-fluorobiphenyl (Surrogate)	%	-	78
		d14-p-terphenyl (Surrogate)	%	-	67

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB364100.001	Lead	µg/L	1	<1

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB363868.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB364241.001	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5
		1,2-dichloropropane	µg/L	0.5	<0.5
		cis-1,3-dichloropropene	µg/L	0.5	<0.5
		trans-1,3-dichloropropene	µg/L	0.5	<0.5
		1,2-dibromoethane (EDB)	µg/L	0.5	<0.5

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB364241.001	Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5
		Chloromethane	µg/L	5	<5
		Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3
		Bromomethane	µg/L	10	<10
		Chloroethane	µg/L	5	<5
		Trichlorofluoromethane	µg/L	1	<1
		1,1-dichloroethene	µg/L	0.5	<0.5
		Iodomethane	µg/L	5	<5
		Dichloromethane (Methylene chloride)	µg/L	5	<5
		Allyl chloride	µg/L	2	<2
		trans-1,2-dichloroethene	µg/L	0.5	<0.5
		1,1-dichloroethane	µg/L	0.5	<0.5
		cis-1,2-dichloroethene	µg/L	0.5	<0.5
		Bromochloromethane	µg/L	0.5	<0.5
		1,2-dichloroethane	µg/L	0.5	<0.5
		1,1,1-trichloroethane	µg/L	0.5	<0.5
		1,1-dichloropropene	µg/L	0.5	<0.5
		Carbon tetrachloride	µg/L	0.5	<0.5
		Dibromomethane	µg/L	0.5	<0.5
		Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5
		1,1,2-trichloroethane	µg/L	0.5	<0.5
		1,3-dichloropropane	µg/L	0.5	<0.5
		Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5
		1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5
		1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5
		1,2,3-trichloropropane	µg/L	0.5	<0.5
		trans-1,4-dichloro-2-butene	µg/L	1	<1
		1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5
		Hexachlorobutadiene	µg/L	0.5	<0.5
	Halogenated Aromatics	Chlorobenzene	µg/L	0.5	<0.5
		Bromobenzene	µg/L	0.5	<0.5
		2-chlorotoluene	µg/L	0.5	<0.5
		4-chlorotoluene	µg/L	0.5	<0.5
		1,3-dichlorobenzene	µg/L	0.5	<0.5
		1,4-dichlorobenzene	µg/L	0.3	<0.3
		1,2-dichlorobenzene	µg/L	0.5	<0.5
		1,2,4-trichlorobenzene	µg/L	0.5	<0.5
		1,2,3-trichlorobenzene	µg/L	0.5	<0.5
	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		Styrene (Vinyl benzene)	µg/L	0.5	<0.5
		o-xylene	µg/L	0.5	<0.5
		Isopropylbenzene (Cumene)	µg/L	0.5	<0.5
		n-propylbenzene	µg/L	0.5	<0.5
		1,3,5-trimethylbenzene	µg/L	0.5	<0.5
		tert-butylbenzene	µg/L	0.5	<0.5
		1,2,4-trimethylbenzene	µg/L	0.5	<0.5
		sec-butylbenzene	µg/L	0.5	<0.5
		p-isopropyltoluene	µg/L	0.5	<0.5
		n-butylbenzene	µg/L	0.5	<0.5
	Nitrogenous Compounds	Acrylonitrile	µg/L	0.5	<0.5
	Oxygenated Compounds	Acetone (2-propanone)	µg/L	10	<10
		MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<1
		Vinyl acetate*	µg/L	10	<10
		MEK (2-butanone)	µg/L	10	<10
		MIBK (4-methyl-2-pentanone)	µg/L	5	<5
		2-hexanone (MBK)	µg/L	5	<5
	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Sulphonated	Carbon disulfide	µg/L	2	<2

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB364241.001	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	78
		d8-toluene (Surrogate)	%	-	78
		Bromofluorobenzene (Surrogate)	%	-	82
	Trihalomethanes	Chloroform (THM)	µg/L	0.5	<0.5
		Bromodichloromethane (THM)	µg/L	0.5	<0.5
		Dibromochloromethane (THM)	µg/L	0.5	<0.5
		Bromoform (THM)	µg/L	0.5	<0.5

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB364241.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	78
		d8-toluene (Surrogate)	%	-	78
		Bromofluorobenzene (Surrogate)	%	-	82

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290557.002	LB364100.014	Lead	µg/L	1	<1	<1	200	0
SE290558.004	LB364100.023	Lead	µg/L	1	<1	<1	200	0

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290557.005	LB364241.023	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	<5	200	0
		Aliphatics	Chloromethane	µg/L	5	<5	<5	200	0
			Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	<0.3	200	0
			Bromomethane	µg/L	10	<10	<10	200	0
			Chloroethane	µg/L	5	<5	<5	200	0
			Trichlorofluoromethane	µg/L	1	<1	<1	200	0
			1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Iodomethane	µg/L	5	<5	<5	200	0
			Dichloromethane (Methylene chloride)	µg/L	5	<5	<5	200	0
			Allyl chloride	µg/L	2	<2	<2	200	0
			trans-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Bromochloromethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			Carbon tetrachloride	µg/L	0.5	<0.5	<0.5	200	0
			Dibromomethane	µg/L	0.5	<0.5	<0.5	200	0
			Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2,3-trichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,4-dichloro-2-butene	µg/L	1	<1	<1	200	0
			1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	<0.5	200	0
			Hexachlorobutadiene	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated	Chlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatics	Bromobenzene	µg/L	0.5	<0.5	<0.5	200	0
			2-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0
			4-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,4-dichlorobenzene	µg/L	0.3	<0.3	<0.3	200	0
			1,2-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,4-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,3-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
		Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	2	1	99	12
			Styrene (Vinyl benzene)	µg/L	0.5	<0.5	<0.5	200	0
			o-xylene	µg/L	0.5	0.6	0.7	108	7
			Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	<0.5	200	0
			n-propylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,3,5-trimethylbenzene	µg/L	0.5	0.8	0.9	90	19
			tert-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,4-trimethylbenzene	µg/L	0.5	1.6	1.9	58	18
			sec-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water (continued) — **Method: ME-(AU)-[ENV]AN433**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290557.005	LB364241.023	Monocyclic	p-isopropyltoluene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	n-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
		Nitrogenous	Acrylonitrile	µg/L	0.5	<0.5	<0.5	200	0
		Compounds	2-nitropropane	µg/L	100	<100	<100	200	0
		Oxygenated	Acetone (2-propanone)	µg/L	10	<10	<10	200	0
		Compounds	MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5	<0.5	200	0
			Vinyl acetate*	µg/L	10	<10	<10	200	0
			MEK (2-butanone)	µg/L	10	<10	<10	200	0
			MIBK (4-methyl-2-pentanone)	µg/L	5	<5	<5	200	0
			2-hexanone (MBK)	µg/L	5	<5	<5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Sulphonated	Carbon disulfide	µg/L	2	<2	<2	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.7	8.8	30	1
			d8-toluene (Surrogate)	µg/L	-	8.8	9.5	30	7
			Bromofluorobenzene (Surrogate)	µg/L	-	9.9	10.2	30	3
		Totals	Total BTEX	µg/L	3	<3	<3	173	0
			Total VOC	µg/L	10	<10	<10	143	0
		Trihalomethan	Chloroform (THM)	µg/L	0.5	4.0	3.6	43	10
		es	Bromodichloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0
			Dibromochloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0
			Bromoform (THM)	µg/L	0.5	<0.5	<0.5	200	0
SE290558.001	LB364241.024	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	<5	200	0
		Aliphatics	Chloromethane	µg/L	5	<5	<5	200	0
			Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	<0.3	200	0
			Bromomethane	µg/L	10	<10	<10	200	0
			Chloroethane	µg/L	5	<5	<5	200	0
			Trichlorofluoromethane	µg/L	1	<1	<1	200	0
			1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Iodomethane	µg/L	5	<5	<5	200	0
			Dichloromethane (Methylene chloride)	µg/L	5	<5	<5	200	0
			Allyl chloride	µg/L	2	<2	<2	200	0
			trans-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Bromochloromethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			Carbon tetrachloride	µg/L	0.5	<0.5	<0.5	200	0
			Dibromomethane	µg/L	0.5	<0.5	<0.5	200	0
			Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichloropropane	µg/L	0.5	<0.5	<0.5	178	0
			Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2,3-trichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,4-dichloro-2-butene	µg/L	1	<1	<1	200	0
			1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	<0.5	200	0
			Hexachlorobutadiene	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated	Chlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatics	Bromobenzene	µg/L	0.5	<0.5	<0.5	200	0
			2-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0
			4-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,4-dichlorobenzene	µg/L	0.3	<0.3	<0.3	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290558.001	LB364241.024	Halogenated	1,2-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatics	1,2,4-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,3-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
		Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			Styrene (Vinyl benzene)	µg/L	0.5	<0.5	<0.5	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
			Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	<0.5	200	0
			n-propylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,3,5-trimethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			tert-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,4-trimethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			sec-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			p-isopropyltoluene	µg/L	0.5	<0.5	<0.5	200	0
			n-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
		Nitrogenous	Acrylonitrile	µg/L	0.5	<0.5	<0.5	200	0
		Compounds	2-nitropropane	µg/L	100	<100	<100	200	0
		Oxygenated	Acetone (2-propanone)	µg/L	10	<10	<10	200	0
		Compounds	MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<1	<0.5	200	0
			Vinyl acetate*	µg/L	10	<10	<10	200	0
			MEK (2-butanone)	µg/L	10	<10	<10	200	0
			MIBK (4-methyl-2-pentanone)	µg/L	5	<5	<5	200	0
			2-hexanone (MBK)	µg/L	5	<5	<5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Sulphonated	Carbon disulfide	µg/L	2	<2	<2	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.4	8.7	30	3
			d8-toluene (Surrogate)	µg/L	-	9.0	9.5	30	6
			Bromofluorobenzene (Surrogate)	µg/L	-	10.0	10.4	30	4
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
			Total VOC	µg/L	10	<10	<10	200	0
		Trihalomethan	Chloroform (THM)	µg/L	0.5	4.9	3.8	42	26
		es	Bromodichloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0
			Dibromochloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0
			Bromoform (THM)	µg/L	0.5	<0.5	<0.5	200	0

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290557.005	LB364241.023		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.7	8.1	30	7
			d8-toluene (Surrogate)	µg/L	-	8.8	8.7	30	2
			Bromofluorobenzene (Surrogate)	µg/L	-	9.9	9.5	30	4
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0
SE290558.001	LB364241.024		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.4	8.2	30	3
			d8-toluene (Surrogate)	µg/L	-	9.0	8.8	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	10.0	9.9	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Low Level PAH (Poly Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB363868.002		Naphthalene	µg/L	0.02	26	40	60 - 140	64
		Acenaphthylene	µg/L	0.01	28	40	60 - 140	69
		Acenaphthene	µg/L	0.01	28	40	60 - 140	69
		Phenanthrene	µg/L	0.01	29	40	60 - 140	74
		Anthracene	µg/L	0.01	28	40	60 - 140	69
		Fluoranthene	µg/L	0.01	29	40	60 - 140	73
		Pyrene	µg/L	0.01	29	40	60 - 140	71
		Benzo(a)pyrene	µg/L	0.01	30	40	60 - 140	75
	Surrogates	d14-p-terphenyl (Surrogate)	%	-	1.1	1.08	39 - 130	99

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB363868.002		Naphthalene	µg/L	0.1	35	40	60 - 140	87
		Acenaphthylene	µg/L	0.1	34	40	60 - 140	85
		Acenaphthene	µg/L	0.1	36	40	60 - 140	89
		Phenanthrene	µg/L	0.1	35	40	60 - 140	88
		Anthracene	µg/L	0.1	34	40	60 - 140	84
		Fluoranthene	µg/L	0.1	36	40	60 - 140	90
		Pyrene	µg/L	0.1	36	40	60 - 140	90
		Benzo(a)pyrene	µg/L	0.1	40	40	60 - 140	100
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.5	40 - 130	62
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	80
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	77

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB364100.002		Lead	µg/L	1	21	20	80 - 120	105

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB363868.002		TRH C10-C14	µg/L	50	1000	1000	60 - 140	103
	TRH F Bands	TRH >C10-C16	µg/L	60	1000	1000	60 - 140	105

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB364241.002	Halogenated	1,1-dichloroethene	µg/L	0.5	62	45.45	60 - 140	136
	Aliphatics	1,2-dichloroethane	µg/L	0.5	50	45.45	60 - 140	111
		Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	51	45.45	60 - 140	113
	Halogenated	Chlorobenzene	µg/L	0.5	39	45.45	60 - 140	86
	Monocyclic	Benzene	µg/L	0.5	22	25	60 - 140	89
	Aromatic	Toluene	µg/L	0.5	23	25	60 - 140	93
		Ethylbenzene	µg/L	0.5	23	25	60 - 140	94
		m/p-xylene	µg/L	1	48	50	60 - 140	95
		o-xylene	µg/L	0.5	24	25	60 - 140	95
	Trihalomethan	Chloroform (THM)	µg/L	0.5	63	45.45	60 - 140	138

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB364241.002		TRH C6-C10	µg/L	50	330	400	60 - 140	81
		TRH C6-C9	µg/L	40	290	350	60 - 140	82

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290557.002	LB364241.025	Fumigants	2,2-dichloropropane	µg/L	0.5		<0.5	-	-
			1,2-dichloropropane	µg/L	0.5		<0.5	-	-
			cis-1,3-dichloropropene	µg/L	0.5		<0.5	-	-
			trans-1,3-dichloropropene	µg/L	0.5		<0.5	-	-
			1,2-dibromoethane (EDB)	µg/L	0.5		<0.5	-	-
		Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)	µg/L	5		<5	-	-
			Chloromethane	µg/L	5		<5	-	-
			Vinyl chloride (Chloroethene)	µg/L	0.3		<0.3	-	-
			Bromomethane	µg/L	10		<10	-	-
			Chloroethane	µg/L	5		<5	-	-
			Trichlorofluoromethane	µg/L	1		<1	-	-
			1,1-dichloroethene	µg/L	0.5		<0.5	45.45	133
			Iodomethane	µg/L	5		<5	-	-
			Dichloromethane (Methylene chloride)	µg/L	5		<5	-	-
			Allyl chloride	µg/L	2		<2	-	-
			trans-1,2-dichloroethene	µg/L	0.5		<0.5	-	-
			1,1-dichloroethane	µg/L	0.5		<0.5	-	-
			cis-1,2-dichloroethene	µg/L	0.5		<0.5	-	-
			Bromochloromethane	µg/L	0.5		<0.5	-	-
			1,2-dichloroethane	µg/L	0.5		<0.5	45.45	112
			1,1,1-trichloroethane	µg/L	0.5		<0.5	-	-
			1,1-dichloropropene	µg/L	0.5		<0.5	-	-
			Carbon tetrachloride	µg/L	0.5		<0.5	-	-
			Dibromomethane	µg/L	0.5		<0.5	-	-
			Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5		<0.5	45.45	124
			1,1,2-trichloroethane	µg/L	0.5		<0.5	-	-
			1,3-dichloropropane	µg/L	0.5		<0.5	-	-
			Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5		<0.5	-	-
			1,1,1,2-tetrachloroethane	µg/L	0.5		<0.5	-	-
			1,1,2,2-tetrachloroethane	µg/L	0.5		<0.5	-	-
			1,2,3-trichloropropane	µg/L	0.5		<0.5	-	-
			trans-1,4-dichloro-2-butene	µg/L	1		<1	-	-
			1,2-dibromo-3-chloropropane	µg/L	0.5		<0.5	-	-
			Hexachlorobutadiene	µg/L	0.5		<0.5	-	-
		Halogenated Aromatics	Chlorobenzene	µg/L	0.5		<0.5	45.45	93
			Bromobenzene	µg/L	0.5		<0.5	-	-
			2-chlorotoluene	µg/L	0.5		<0.5	-	-
			4-chlorotoluene	µg/L	0.5		<0.5	-	-
			1,3-dichlorobenzene	µg/L	0.5		<0.5	-	-
			1,4-dichlorobenzene	µg/L	0.3		<0.3	-	-
			1,2-dichlorobenzene	µg/L	0.5		<0.5	-	-
			1,2,4-trichlorobenzene	µg/L	0.5		<0.5	-	-
			1,2,3-trichlorobenzene	µg/L	0.5		<0.5	-	-
		Monocyclic Aromatic	Benzene	µg/L	0.5	24	<0.5	25	96
			Toluene	µg/L	0.5	25	<0.5	25	100
			Ethylbenzene	µg/L	0.5	26	<0.5	25	103
			m/p-xylene	µg/L	1	53	<1	50	107
			Styrene (Vinyl benzene)	µg/L	0.5		<0.5	-	-
			o-xylene	µg/L	0.5	27	<0.5	25	107
			Isopropylbenzene (Cumene)	µg/L	0.5		<0.5	-	-
			n-propylbenzene	µg/L	0.5		<0.5	-	-
			1,3,5-trimethylbenzene	µg/L	0.5		<0.5	-	-
			tert-butylbenzene	µg/L	0.5		<0.5	-	-
			1,2,4-trimethylbenzene	µg/L	0.5		<0.5	-	-
			sec-butylbenzene	µg/L	0.5		<0.5	-	-
			p-isopropyltoluene	µg/L	0.5		<0.5	-	-
			n-butylbenzene	µg/L	0.5		<0.5	-	-
		Nitrogenous Compounds	Acrylonitrile	µg/L	0.5		<0.5	-	-
			2-nitropropane	µg/L	100		<100	-	-
		Oxygenated Compounds	Acetone (2-propanone)	µg/L	10		<10	-	-
			MtBE (Methyl-tert-butyl ether)	µg/L	0.5		<1	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290557.002	LB364241.025	Oxygenated Compounds	Vinyl acetate*	µg/L	10		<10	-	-
			MEK (2-butanone)	µg/L	10		<10	-	-
			MIBK (4-methyl-2-pentanone)	µg/L	5		<5	-	-
			2-hexanone (MBK)	µg/L	5		<5	-	-
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	-	-
		Sulphonated	Carbon disulfide	µg/L	2		<2	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.4	8.7	-	94
			d8-toluene (Surrogate)	µg/L	-	9.7	8.8	-	97
			Bromofluorobenzene (Surrogate)	µg/L	-	9.5	10.0	-	95
		Totals	Total BTEX	µg/L	3	150	<3	-	-
			Total VOC	µg/L	10		<10	-	-
		Trihalomethanes	Chloroform (THM)	µg/L	0.5		<0.5	45.45	135
			Bromodichloromethane (THM)	µg/L	0.5		<0.5	-	-
			Dibromochloromethane (THM)	µg/L	0.5		<0.5	-	-
			Bromoform (THM)	µg/L	0.5		<0.5	-	-

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290557.002	LB364241.025		TRH C6-C10	µg/L	50	360	<50	400	90
			TRH C6-C9	µg/L	40	260	<40	350	73
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.7	8.7	-	87
			d8-toluene (Surrogate)	µg/L	-	10	8.8	-	102
			Bromofluorobenzene (Surrogate)	µg/L	-	9.6	10.0	-	96
		VPH F Bands	Benzene (F0)	µg/L	0.5		<0.5	-	-
			TRH C6-C10 minus BTEX (F1)	µg/L	50	71	<50	-	-

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
NA	Not Applicable
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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This test report shall not be reproduced, except in full.

FOUNDATION EARTH SCIENCES

Chain of Custody Record

Client Details:	Foundation Earth Sciences PO Box 4405, East Gosford NSW 2250 email: ben@foundationes.com.au; D.gibbs@foundationes.com.au michael@foundationes.com.au; khy@foundationes.com.au ph: +61466 385 221	Project Manager:	Michael Silk	Project #: 63403-2	
		Sampled By:	DG	Project Name: Cammeray	
Delivery Details:	SGS Laboratories Pty Ltd Unit 16, 33 Maddox Street, Alexandria NSW 2015 email: au.samplereceipt@sgs.com ph: +612 8594 0400	Purchase Order #:	N/A	Quote #:	
		Page #:	1	Turnaround: Standard	

#	Sample ID	Depth	Date Sampled	Matrix	Analytes														Sample Comments
					TDS		EC	HM	TRH	BTEXN	PAH Low	PFAS	VOC	TSS	Turbidity	Oil and Grease	Faecal Coliforms	Suites	
1	GW1	-	03/10/25	Water				X	X	X	X		X					CL12 & CL18	Keep
2	GW2	-	03/10/25	Water				X	X	X	X		X					CL12 & CL18	Keep
3	GW3	-	03/10/25	Water				X	X	X	X		X					CL12 & CL18	Keep
4	D1	-	03/10/25	Water				X	X	X	X		X					CL12 & CL18	Keep
5	TS	-	03/10/25	Water					x	X			X						Keep
6	TB	-	03/10/25	Water					x	X			x						Keep

Special Directions and Comments:

Relinquished by	Daniel Gibbs	Received By	
Signature	DG	Signature	MJ
Date	03/10/25	Date	03/10/25 0:5pm

SGS EHS Sydney COC

SE290558

source:Sydney_au.shea_coc_251007_094159.pdf pages:3 SGS Ref:SE290558_COC

SAMPLE RECEIPT ADVICE

SE290558

CLIENT DETAILS

Contact	Ben Buckley
Client	FOUNDATION EARTH SCIENCES PTY LTD
Address	UNIT 119/14 LOYALTY ROAD NORTH ROCKS NSW 2151
Telephone	(Not specified)
Facsimile	(Not specified)
Email	ben@foundationes.com.au
Project	**E3403-2 Cammeray**
Order Number	**E3403-2**
Samples	6

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Fri 3/10/2025
Report Due	Mon 13/10/2025
SGS Reference	**SE290558**

SUBMISSION DETAILS

This is to confirm that 6 samples were received on Friday 3/10/2025. Results are expected to be ready by COB Monday 13/10/2025. Please quote SGS reference SE290558 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	6 Water	Date documentation received	3/10/2025
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	21°C	Turnaround time requested	Standard
Sample cooling method	Ice Bricks		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

Sample #3 -GW3 insufficient sample for PAH low level and therefore PAH standard levels will be analysed instead .

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SAMPLE RECEIPT ADVICE

SE290558

CLIENT DETAILS

Client FOUNDATION EARTH SCIENCES PTY LTD

Project E3403-2 Cammeray

SUMMARY OF ANALYSIS

No.	Sample ID	Low Level PAH (Poly Aromatic Hydrocarbons) in	PAH (Polynuclear Aromatic Hydrocarbons) in Water	Trace Metals (Dissolved) in Water by ICPMS	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	GW1	23	-	1	9	77	7
002	GW2	23	-	1	9	77	7
003	GW3	-	22	1	9	77	7
004	D1	23	-	1	9	77	7
005	TS	-	-	-	9	77	7
006	TB	-	-	-	9	77	7

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Ben Buckley
Client	FOUNDATION EARTH SCIENCES PTY LTD
Address	UNIT 119/14 LOYALTY ROAD NORTH ROCKS NSW 2151
Telephone	(Not specified)
Facsimile	(Not specified)
Email	ben@foundationes.com.au
Project	**E3403-2 Cammeray**
Order Number	**E3403-2**
Samples	6

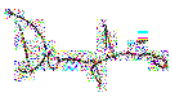
LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE290558A R0**
Date Received	15/10/2025
Date Reported	16/10/2025

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES



Dong LIANG

Metals/Inorganics Team Leader

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 16/10/2025

PARAMETER	UOM	LOR	GW1 WATER - 3/10/2025 SE290558A.001	GW2 WATER - 3/10/2025 SE290558A.002	GW3 WATER - 3/10/2025 SE290558A.003	D1 WATER - 3/10/2025 SE290558A.004
Arsenic	µg/L	1	<1	<1	3	<1
Cadmium	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Copper	µg/L	1	2	2	6	1
Chromium	µg/L	1	<1	<1	7	<1
Nickel	µg/L	1	10	9	13	14
Zinc	µg/L	5	22	23	55	24

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 16/10/2025

PARAMETER	UOM	LOR	GW1 WATER - 3/10/2025 SE290558A.001	GW2 WATER - 3/10/2025 SE290558A.002	GW3 WATER - 3/10/2025 SE290558A.003	D1 WATER - 3/10/2025 SE290558A.004
Mercury, Hg	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR			
***	Indicates that both * and ** apply.		Sample listed, but not received.		
NAD	No Asbestos Detected.	NA	Not Applicable.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE290558A R0

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Ben Buckley	Manager	Shane McDermott
Client	FOUNDATION EARTH SCIENCES PTY LTD	Laboratory	SGS Alexandria Environmental
Address	UNIT 119/14 LOYALTY ROAD NORTH ROCKS NSW 2151	Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	(Not specified)	Telephone	+61 2 8594 0400
Facsimile	(Not specified)	Facsimile	+61 2 8594 0499
Email	ben@foundationes.com.au	Email	au.environmental.sydney@sgs.com
Project	**E3403-2 Cammeray**	SGS Reference	**SE290558A R0**
Order Number	**E3403-2**	Date Received	15 Oct 2025
Samples	6	Date Reported	16 Oct 2025

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Sample counts by matrix	4 Water	Date documentation received	15/10/2025!11:32am
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	21°C	Turnaround time requested	Next Day
Sample cooling method	Ice Bricks		

HOLDING TIME SUMMARY

SE290558A R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury (dissolved) in Water — **Method: ME-(AU)-[ENV]AN311(Perth)/AN312**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE290558A.001	LB365001	03 Oct 2025	15 Oct 2025	31 Oct 2025	16 Oct 2025	31 Oct 2025	16 Oct 2025
GW2	SE290558A.002	LB365001	03 Oct 2025	15 Oct 2025	31 Oct 2025	16 Oct 2025	31 Oct 2025	16 Oct 2025
GW3	SE290558A.003	LB365001	03 Oct 2025	15 Oct 2025	31 Oct 2025	16 Oct 2025	31 Oct 2025	16 Oct 2025
D1	SE290558A.004	LB365001	03 Oct 2025	15 Oct 2025	31 Oct 2025	16 Oct 2025	31 Oct 2025	16 Oct 2025

Trace Metals (Dissolved) in Water by ICPMS — **Method: ME-(AU)-[ENV]AN318**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE290558A.001	LB364980	03 Oct 2025	15 Oct 2025	01 Apr 2026	16 Oct 2025	01 Apr 2026	16 Oct 2025
GW2	SE290558A.002	LB364980	03 Oct 2025	15 Oct 2025	01 Apr 2026	16 Oct 2025	01 Apr 2026	16 Oct 2025
GW3	SE290558A.003	LB364980	03 Oct 2025	15 Oct 2025	01 Apr 2026	16 Oct 2025	01 Apr 2026	16 Oct 2025
D1	SE290558A.004	LB364980	03 Oct 2025	15 Oct 2025	01 Apr 2026	16 Oct 2025	01 Apr 2026	16 Oct 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury (dissolved) in Water — Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB365001.001	Mercury, Hg	mg/L	0.0001	<0.0001

Trace Metals (Dissolved) in Water by ICPMS — Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB364980.001	Arsenic	µg/L	1	<1
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Copper	µg/L	1	<1
	Nickel	µg/L	1	<1
	Zinc	µg/L	5	<5

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE291074.009	LB365001.009	Mercury, Hg	µg/L	0.0001	<0.0001	<0.0001	194	0

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE291048.005	LB364980.014	Arsenic	µg/L	1	2.306	2.399	58	4
		Cadmium	µg/L	0.1	0.019	0.03	200	0
		Chromium	µg/L	1	2.38	2.408	57	1
		Copper	µg/L	1	9.855	9.948	25	1
		Nickel	µg/L	1	1.642	1.747	74	6
		Zinc	µg/L	5	18.963	20.338	40	7

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Trace Metals (Dissolved) in Water by ICPMS — **Method: ME-(AU)-[ENV]AN318**

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB364980.002	Arsenic	µg/L	1	20	20	80 - 120	101
	Cadmium	µg/L	0.1	21	20	80 - 120	106
	Chromium	µg/L	1	21	20	80 - 120	106
	Copper	µg/L	1	22	20	80 - 120	110
	Nickel	µg/L	1	22	20	80 - 120	108
	Zinc	µg/L	5	21	20	80 - 120	105

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury (dissolved) in Water — **Method: ME-(AU)-[ENV]AN311(Perth)/AN312**

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290558A.001	LB365001.004	Mercury, Hg	mg/L	0.0001	0.0021	<0.0001	0.008	107

MATRIX SPIKE DUPLICATES

SE290558A R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
NA	Not Applicable
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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Yin, Emily (Alexandria)

From: Michael Silk <michael@foundationes.com.au>
Sent: Wednesday, 15 October 2025 11:32 AM
To: AU.Environmental.Sydney, AU (Sydney); AU.SampleReceipt.Sydney, AU (Sydney)
Cc: Ben Buckley; Megan Trethewy; Daniel Gibbs
Subject: [EXTERNAL] Fwd: Report Job SE290558, your reference E3403-2 Cammeray, order number E3403-2
Attachments: SE290558__F_BEN_MICH_KHY_DAN_AND_ANALYTICALREPORT2.PDF; SE290558__F_BEN_MICH_KHY_DAN_AND_DQO.PDF; SE290558_COC.PDF; SE290558_RECEIPT.PDF; SE290558__F_SGS_SAMP.XLSX

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hey Guys
In the lab report SE290558 - can we get the seven heavy metals (arsenic, cadmium, chromium, copper, mercury, nickel and zinc
) tested on 1day tat for gw1/gw2/gw3 & d1 - we may an error on the coc re suites
thanks

Michael Silk
Foundation Earth Sciences
Senior Environmental Scientist
0407 757 951
michael@foundationes.com.au

SGS EHS Alexandria Laboratory
SE290558A COC
Received: 15 – Oct – 2025

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---------- Forwarded message ---------
From: <AU.Environmental.Sydney@sgs.com>
Date: Mon, 13 Oct 2025 at 16:41
Subject: Report Job SE290558, your reference E3403-2 Cammeray, order number E3403-2
To: <ben@foundationes.com.au>, <d.gibbs@foundationes.com.au>, <khy@foundationes.com.au>, <MICHAEL@foundationes.com.au>

Yin, Emily (Alexandria)

From: Michael Silk <michael@foundationes.com.au>
Sent: Wednesday, 15 October 2025 12:33 PM
To: AU.Environmental.Sydney, AU (Sydney)
Cc: AU.SampleReceipt.Sydney, AU (Sydney); Ben Buckley; Megan Trethewy; Daniel Gibbs
Subject: Re: [EXTERNAL] Fwd: Report Job SE290558, your reference E3403-2 Cammeray, order number E3403-2

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

hey rita
- dissolved metals and 1 day
thanks

Michael Silk
Foundation Earth Sciences
Senior Environmental Scientist
0407 757 951
michael@foundationes.com.au

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P Please consider the environment before printing this email.

On Wed, 15 Oct 2025 at 12:32, AU.Environmental.Sydney, AU (Sydney) <AU.Environmental.Sydney@sgs.com> wrote:

> Hi Michael ,
>
> We will get those booked in for you in an A job.
>
> Did you need dissolved metals ? and what Tat time ?
>
> Kind regards

SAMPLE RECEIPT ADVICE

SE290558A

CLIENT DETAILS

Contact	Ben Buckley
Client	FOUNDATION EARTH SCIENCES PTY LTD
Address	UNIT 119/14 LOYALTY ROAD NORTH ROCKS NSW 2151
Telephone	(Not specified)
Facsimile	(Not specified)
Email	ben@foundationes.com.au
Project	**E3403-2 Cammeray**
Order Number	**E3403-2**
Samples	6

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Wed 15/10/2025
Report Due	Thu 16/10/2025
SGS Reference	**SE290558A**

SUBMISSION DETAILS

This is to confirm that 6 samples were received on Wednesday 15/10/2025. Results are expected to be ready by COB Thursday 16/10/2025.
Please quote SGS reference SE290558A when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	4 Water	Date documentation received	15/10/2025!11:32am
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	21°C	Turnaround time requested	Next Day
Sample cooling method	Ice Bricks		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

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SAMPLE RECEIPT ADVICE

SE290558A

CLIENT DETAILS

Client FOUNDATION EARTH SCIENCES PTY LTD

Project E3403-2 Cammeray

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Trace Metals (Dissolved) in Water by ICPMS
001	GW1	1	6
002	GW2	1	6
003	GW3	1	6
004	D1	1	6

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 391628

Client Details

Client	Foundation Earth Sciences Pty Ltd
Attention	Ben Buckley
Address	PO Box 4405, East Gosford, NSW, 2250

Sample Details

Your Reference	**E3403-2 Cammeray**
Number of Samples	1 Soil
Date samples received	25/09/2025
Date completed instructions received	25/09/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client unless as indicated below in the method summaries. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	02/10/2025
Date of Issue	02/10/2025

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Jack Wallis, Senior Chemist
Liam Timmins, Organics Supervisor
Tabitha Roberts, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		391628-1
Your Reference	UNITS	SS1
Date Sampled		23/09/2025
Type of sample		Soil
Date extracted	-	26/09/2025
Date analysed	-	29/09/2025
TRH C_6 - C_9	mg/kg	<25
TRH C_6 - C_{10}	mg/kg	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	87

svTRH (C10-C40) in Soil		
Our Reference		391628-1
Your Reference	UNITS	SS1
Date Sampled		23/09/2025
Type of sample		Soil
Date extracted	-	26/09/2025
Date analysed	-	27/09/2025
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{29} - C_{36}	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C_{10} -C_{16}	mg/kg	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50
TRH >C_{16} -C_{34}	mg/kg	<100
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	73

PAHs in Soil		
Our Reference		391628-1
Your Reference	UNITS	SS1
Date Sampled		23/09/2025
Type of sample		Soil
Date extracted	-	26/09/2025
Date analysed	-	29/09/2025
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	0.2
Pyrene	mg/kg	0.2
Benzo(a)anthracene	mg/kg	0.1
Chrysene	mg/kg	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.3
Benzo(a)pyrene	mg/kg	0.2
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1
Total +ve PAH's	mg/kg	1.2
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d14	%	97

Organochlorine Pesticides in soil		
Our Reference		391628-1
Your Reference	UNITS	SS1
Date Sampled		23/09/2025
Type of sample		Soil
Date extracted	-	26/09/2025
Date analysed	-	29/09/2025
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Mirex	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Total Positive Aldrin+Dieldrin	mg/kg	<0.1
Surrogate 4-Chloro-3-NBTF	%	105

PCBs in Soil		
Our Reference		391628-1
Your Reference	UNITS	SS1
Date Sampled		23/09/2025
Type of sample		Soil
Date extracted	-	26/09/2025
Date analysed	-	29/09/2025
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate 2-Fluorobiphenyl	%	94

Acid Extractable metals in soil		
Our Reference		391628-1
Your Reference	UNITS	SS1
Date Sampled		23/09/2025
Type of sample		Soil
Date prepared	-	26/09/2025
Date analysed	-	26/09/2025
Arsenic	mg/kg	4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	3
Copper	mg/kg	4
Lead	mg/kg	27
Mercury	mg/kg	<0.1
Nickel	mg/kg	2
Zinc	mg/kg	27

Moisture		
Our Reference		391628-1
Your Reference	UNITS	SS1
Date Sampled		23/09/2025
Type of sample		Soil
Date prepared	-	26/09/2025
Date analysed	-	29/09/2025
Moisture	%	7.0

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals/elements by ICP-AES. Total Phosphate determined stochiometrically from Phosphorus (assumed to be present as Phosphate). Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation. Submission of low masses of sample e.g. for dust samples, may result in raised PQLs. Where molecular anion forms are calculated from an element (e.g. SO4 from S or PO4 from P stoichiometrically), the assumption is that the element is only present in that molecular anion form.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			26/09/2025	[NT]	[NT]	[NT]	[NT]	26/09/2025	[NT]
Date analysed	-			29/09/2025	[NT]	[NT]	[NT]	[NT]	29/09/2025	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	102	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	99	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	97	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	106	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	91	[NT]	[NT]	[NT]	[NT]	92	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			26/09/2025	[NT]	[NT]	[NT]	[NT]	26/09/2025	[NT]
Date analysed	-			27/09/2025	[NT]	[NT]	[NT]	[NT]	27/09/2025	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	97	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	82	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	97	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	82	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	71	[NT]	[NT]	[NT]	[NT]	114	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			26/09/2025	[NT]	[NT]	[NT]	[NT]	26/09/2025	[NT]
Date analysed	-			29/09/2025	[NT]	[NT]	[NT]	[NT]	29/09/2025	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	122	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	140	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	102	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			26/09/2025	[NT]	[NT]	[NT]	[NT]	26/09/2025	[NT]
Date analysed	-			29/09/2025	[NT]	[NT]	[NT]	[NT]	29/09/2025	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	104	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: PCBs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			26/09/2025	[NT]	[NT]	[NT]	[NT]	26/09/2025	[NT]
Date analysed	-			29/09/2025	[NT]	[NT]	[NT]	[NT]	29/09/2025	[NT]
Aroclor 1016	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Aroclor 1260	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	96	[NT]	[NT]	[NT]	[NT]	91	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			26/09/2025	[NT]	[NT]	[NT]	[NT]	26/09/2025	[NT]
Date analysed	-			26/09/2025	[NT]	[NT]	[NT]	[NT]	26/09/2025	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	104	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	91	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Foundation Earth Sciences Pty Ltd
Attention	Ben Buckley

Sample Login Details

Your reference	E3403-2 Cammeray
Envirolab Reference	391628
Date Sample Received	25/09/2025
Date Instructions Received	25/09/2025
Date Results Expected to be Reported	02/10/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Acid Extractable metals in soil
SS1	✓	✓	✓	✓	✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info
Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

coc: 25/09/2025 1545

FOUNDATION EARTH SCIENCES

Chain of Custody Record

Client Details:	Foundation Earth Sciences PO Box 4405, East Gosford NSW 2250 email: ben@foundationes.com.au michael@foundationes.com.au; d.gibbs@foundationes.com.au ph: +61466 385 221	**Project Manager:** Ben Buckley **Sampled By:** DG **Purchase Order #:** N/A **Page #:** 1	**Project #:** E3403-2 **Project Name:** Cammeray **Quote #:** **Turnaround:** Standard
Delivery Details:	Envirolab Pty Ltd 12 Ashley Street, Chatswood NSW 2067 email: ahie@envirolab.com.au ph: +612 9910 6200		

#	Sample ID	Depth	Date Sampled	Matrix	Analytes: ph	CEC	%CLAY	Heavy Metals (8)	TRH	BTEXN	PAH	OC	PCB / OCP	Asbestos ID	Asbestos %w/w (NEPM /WA)	Phenol		Suites	Sample Comments
1	SS1	-	23/09/25	Soil				X	X	X	X		X					Combo5	Keep

Special Directions and Comments:

Relinquished by	Daniel Gibbs	**Received By**	
Signature	DG	**Signature**	
Date	25/09/25	**Date**	

ENVIROLAB GROUP

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 391628
Date Received: 25/9/25
Time Received: 1530
Received By: VC
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Ben Buckley
Client	FOUNDATION EARTH SCIENCES PTY LTD
Address	UNIT 119/14 LOYALTY ROAD NORTH ROCKS NSW 2151
Telephone	(Not specified)
Facsimile	(Not specified)
Email	ben@foundationes.com.au
Project	**E3403-2 Cammeray**
Order Number	**E3403-2**
Samples	19

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE290100 R0**
Date Received	25/9/2025
Date Reported	2/10/2025

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

% Clay subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146. Report No: CE184499.

No respirable fibres detected in all soil samples using trace analysis technique.
Sample #1: Chrysotile and Crocidolite asbestos found in approx 3x2x2mm cement sheet fragment.
Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Ly Kim HA
Organic Section Head

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

Teresa NGUYEN
Organic Chemist

Ying Ying ZHANG
Laboratory Technician

VOC's in Soil [AN433] Tested: 30/9/2025

PARAMETER	UOM	LOR	BH1 0.3-0.4 SOIL - 23/9/2025 SE290100.001	BH2 0.4-0.5 SOIL - 23/9/2025 SE290100.002	BH3 1-1.1 SOIL - 24/9/2025 SE290100.003	BH4 0.1-0.2 SOIL - 22/9/2025 SE290100.004	BH5 0.2-0.3 SOIL - 24/9/2025 SE290100.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007	BH7 0.2-0.3 SOIL - 23/9/2025 SE290100.008	BH8 0.2-0.3 SOIL - 23/9/2025 SE290100.009	BH8 0.5-0.6 SOIL - 23/9/2025 SE290100.010
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH9 0.1-0.2 SOIL - 24/9/2025 SE290100.011	BH10 0.3-0.4 SOIL - 24/9/2025 SE290100.012	BH11 0.1-0.2 SOIL - 24/9/2025 SE290100.013	BH12 0.0-0.1 SOIL - 24/9/2025 SE290100.014	BH12 0.4-0.5 SOIL - 24/9/2025 SE290100.015
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH13 0.1-0.2 SOIL - 24/9/2025 SE290100.016	TS SOIL - 22/9/2025 SE290100.017	TB SOIL - 22/9/2025 SE290100.018	D1 SOIL - 23/9/2025 SE290100.019
Benzene	mg/kg	0.1	<0.1	[82%]	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	[84%]	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	[85%]	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	[85%]	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	[85%]	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	-	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	-	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	-	<0.1	<0.1

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 30/9/2025

PARAMETER	UOM	LOR	BH1 0.3-0.4 SOIL - 23/9/2025 SE290100.001	BH2 0.4-0.5 SOIL - 23/9/2025 SE290100.002	BH3 1-1.1 SOIL - 24/9/2025 SE290100.003	BH4 0.1-0.2 SOIL - 22/9/2025 SE290100.004	BH5 0.2-0.3 SOIL - 24/9/2025 SE290100.005
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007	BH7 0.2-0.3 SOIL - 23/9/2025 SE290100.008	BH8 0.2-0.3 SOIL - 23/9/2025 SE290100.009	BH8 0.5-0.6 SOIL - 23/9/2025 SE290100.010
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH9 0.1-0.2 SOIL - 24/9/2025 SE290100.011	BH10 0.3-0.4 SOIL - 24/9/2025 SE290100.012	BH11 0.1-0.2 SOIL - 24/9/2025 SE290100.013	BH12 0.0-0.1 SOIL - 24/9/2025 SE290100.014	BH12 0.4-0.5 SOIL - 24/9/2025 SE290100.015
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH13 0.1-0.2 SOIL - 24/9/2025 SE290100.016	TB SOIL - 22/9/2025 SE290100.018	D1 SOIL - 23/9/2025 SE290100.019
TRH C6-C9	mg/kg	20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 30/9/2025

PARAMETER	UOM	LOR	BH1 0.3-0.4 SOIL - 23/9/2025 SE290100.001	BH2 0.4-0.5 SOIL - 23/9/2025 SE290100.002	BH3 1-1.1 SOIL - 24/9/2025 SE290100.003	BH4 0.1-0.2 SOIL - 22/9/2025 SE290100.004	BH5 0.2-0.3 SOIL - 24/9/2025 SE290100.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	**140**	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	**100**	**62**	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	**36**	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	**36**	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	**200**	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	**240**	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	**240**	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007	BH7 0.2-0.3 SOIL - 23/9/2025 SE290100.008	BH8 0.2-0.3 SOIL - 23/9/2025 SE290100.009	BH8 0.5-0.6 SOIL - 23/9/2025 SE290100.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	**52**	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH9 0.1-0.2 SOIL - 24/9/2025 SE290100.011	BH10 0.3-0.4 SOIL - 24/9/2025 SE290100.012	BH11 0.1-0.2 SOIL - 24/9/2025 SE290100.013	BH12 0.0-0.1 SOIL - 24/9/2025 SE290100.014	BH12 0.4-0.5 SOIL - 24/9/2025 SE290100.015
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	**230**	<45	**84**	<45	<45
TRH C29-C36	mg/kg	45	**330**	**74**	**260**	<45	<45
TRH C37-C40	mg/kg	100	**140**	<100	**180**	<100	<100
TRH >C10-C16	mg/kg	25	**40**	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	**40**	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	**450**	<90	**260**	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	**230**	<120	**260**	<120	<120
TRH C10-C36 Total	mg/kg	110	**560**	<110	**350**	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	**720**	<210	**530**	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 30/9/2025 (continued)

PARAMETER	UOM	LOR	BH13 0.1-0.2 SOIL - 24/9/2025 SE290100.016	D1 SOIL - 23/9/2025 SE290100.019
TRH C10-C14	mg/kg	20	<20	<20
TRH C15-C28	mg/kg	45	**72**	<45
TRH C29-C36	mg/kg	45	**96**	**49**
TRH C37-C40	mg/kg	100	<100	<100
TRH >C10-C16	mg/kg	25	**32**	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	**32**	<25
TRH >C16-C34 (F3)	mg/kg	90	**100**	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120
TRH C10-C36 Total	mg/kg	110	**170**	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 30/9/2025

PARAMETER	UOM	LOR	BH1 0.3-0.4 SOIL - 23/9/2025 SE290100.001	BH2 0.4-0.5 SOIL - 23/9/2025 SE290100.002	BH3 1-1.1 SOIL - 24/9/2025 SE290100.003	BH4 0.1-0.2 SOIL - 22/9/2025 SE290100.004	BH5 0.2-0.3 SOIL - 24/9/2025 SE290100.005
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	0.4	0.2	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	0.3	0.8	0.4	0.4	0.1
Pyrene	mg/kg	0.1	0.3	0.9	0.4	0.4	0.1
Benzo(a)anthracene	mg/kg	0.1	0.2	0.5	0.2	0.2	<0.1
Chrysene	mg/kg	0.1	0.2	0.5	0.2	0.2	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	0.2	0.5	0.2	0.2	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	0.2	0.5	0.3	0.3	<0.1
Benzo(a)pyrene	mg/kg	0.1	0.2	0.7	0.3	0.3	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.2	0.4	0.2	0.2	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	0.2	0.5	0.2	0.3	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	0.3	0.9	0.4	0.4	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	0.4	1.0	0.5	0.5	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	0.4	1.0	0.5	0.5	<0.2
Total PAH (18)	mg/kg	0.8	2.0	5.9	2.8	2.7	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	2.0	5.9	2.8	2.7	<0.8

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007	BH7 0.2-0.3 SOIL - 23/9/2025 SE290100.008	BH8 0.2-0.3 SOIL - 23/9/2025 SE290100.009	BH8 0.5-0.6 SOIL - 23/9/2025 SE290100.010
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	1.3	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	1.1	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 30/9/2025 (continued)

PARAMETER	UOM	LOR	BH9 0.1-0.2 SOIL - 24/9/2025 SE290100.011	BH10 0.3-0.4 SOIL - 24/9/2025 SE290100.012	BH11 0.1-0.2 SOIL - 24/9/2025 SE290100.013	BH12 0.0-0.1 SOIL - 24/9/2025 SE290100.014	BH12 0.4-0.5 SOIL - 24/9/2025 SE290100.015
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	**0.1**	<0.1	<0.1
Pyrene	mg/kg	0.1	**0.1**	<0.1	**0.1**	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH13 0.1-0.2 SOIL - 24/9/2025 SE290100.016	D1 SOIL - 23/9/2025 SE290100.019
Naphthalene	mg/kg	0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	**0.2**	<0.1
Pyrene	mg/kg	0.1	**0.2**	<0.1
Benzo(a)anthracene	mg/kg	0.1	**0.1**	<0.1
Chrysene	mg/kg	0.1	**0.1**	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	**0.1**	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	**0.1**	<0.1
Benzo(a)pyrene	mg/kg	0.1	**0.2**	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	**0.1**	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	**0.1**	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	**0.2**	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	**0.3**	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	**0.3**	<0.2
Total PAH (18)	mg/kg	0.8	**1.2**	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	**1.2**	<0.8

OC Pesticides in Soil [AN420] Tested: 30/9/2025

PARAMETER	UOM	LOR	BH1 0.3-0.4 SOIL - 23/9/2025 SE290100.001	BH2 0.4-0.5 SOIL - 23/9/2025 SE290100.002	BH3 1-1.1 SOIL - 24/9/2025 SE290100.003	BH4 0.1-0.2 SOIL - 22/9/2025 SE290100.004	BH5 0.2-0.3 SOIL - 24/9/2025 SE290100.005
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	**0.4**	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	**0.6**	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	**0.1**	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	**0.8**	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	**1.2**	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	**1.2**	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	**1.2**	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 30/9/2025 (continued)

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007	BH7 0.2-0.3 SOIL - 23/9/2025 SE290100.008	BH8 0.2-0.3 SOIL - 23/9/2025 SE290100.009	BH8 0.5-0.6 SOIL - 23/9/2025 SE290100.010
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	**0.4**	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	**0.3**	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	**0.4**	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	**0.7**	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	**0.7**	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	**0.7**	<0.1

OC Pesticides in Soil [AN420] Tested: 30/9/2025 (continued)

PARAMETER	UOM	LOR	BH9 0.1-0.2 SOIL - 24/9/2025 SE290100.011	BH10 0.3-0.4 SOIL - 24/9/2025 SE290100.012	BH11 0.1-0.2 SOIL - 24/9/2025 SE290100.013	BH12 0.0-0.1 SOIL - 24/9/2025 SE290100.014	BH12 0.4-0.5 SOIL - 24/9/2025 SE290100.015
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	0.4	0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	0.3	0.1	0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	0.5	0.2	0.2	0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	0.2	<0.1	<0.1	0.2	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	0.3	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	1.3	0.3	0.1	0.2	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	1.3	0.3	0.1	0.2	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	0.8	0.3	0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 30/9/2025 (continued)

PARAMETER	UOM	LOR	BH13 0.1-0.2 SOIL - 24/9/2025 SE290100.016	D1 SOIL - 23/9/2025 SE290100.019
Alpha BHC	mg/kg	0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1

OP Pesticides in Soil [AN420] Tested: 30/9/2025

PARAMETER	UOM	LOR	BH1 0.3-0.4 SOIL - 23/9/2025 SE290100.001	BH7 0.2-0.3 SOIL - 23/9/2025 SE290100.008	BH12 0.0-0.1 SOIL - 24/9/2025 SE290100.014
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7

PCBs in Soil [AN420] Tested: 30/9/2025

PARAMETER	UOM	LOR	BH1 0.3-0.4 SOIL - 23/9/2025 SE290100.001	BH2 0.4-0.5 SOIL - 23/9/2025 SE290100.002	BH3 1-1.1 SOIL - 24/9/2025 SE290100.003	BH4 0.1-0.2 SOIL - 22/9/2025 SE290100.004	BH5 0.2-0.3 SOIL - 24/9/2025 SE290100.005
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	**0.6**	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	**0.6**	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007	BH7 0.2-0.3 SOIL - 23/9/2025 SE290100.008	BH8 0.2-0.3 SOIL - 23/9/2025 SE290100.009	BH8 0.5-0.6 SOIL - 23/9/2025 SE290100.010
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH9 0.1-0.2 SOIL - 24/9/2025 SE290100.011	BH10 0.3-0.4 SOIL - 24/9/2025 SE290100.012	BH11 0.1-0.2 SOIL - 24/9/2025 SE290100.013	BH12 0.0-0.1 SOIL - 24/9/2025 SE290100.014	BH12 0.4-0.5 SOIL - 24/9/2025 SE290100.015
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	**1.0**	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	**1.0**	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH13 0.1-0.2 SOIL - 24/9/2025 SE290100.016	D1 SOIL - 23/9/2025 SE290100.019
Arochlor 1016	mg/kg	0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1

pH in soil (1:5) [AN101] Tested: 30/9/2025

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007
pH	pH Units	0.1	**7.3**	**4.8**

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 2/10/2025

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007
Exchangeable Calcium, Ca	mg/kg	2	4900	380
Exchangeable Calcium, Ca	meq/100g	0.01	24	1.9
Exchangeable Calcium Percentage*	%	0.1	87.1	55.8
Exchangeable Potassium, K	mg/kg	2	170	62
Exchangeable Potassium, K	meq/100g	0.01	0.42	0.16
Exchangeable Potassium Percentage*	%	0.1	1.5	4.7
Exchangeable Magnesium, Mg	mg/kg	2	360	130
Exchangeable Magnesium, Mg	meq/100g	0.02	2.9	1.1
Exchangeable Magnesium Percentage*	%	0.1	10.5	32.0
Exchangeable Sodium, Na	mg/kg	2	59	58
Exchangeable Sodium, Na	meq/100g	0.01	0.26	0.25
Exchangeable Sodium Percentage*	%	0.1	0.9	7.4
Cation Exchange Capacity	meq/100g	0.02	28	3.4

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 30/9/2025

PARAMETER	UOM	LOR	BH1 0.3-0.4 SOIL - 23/9/2025 SE290100.001	BH2 0.4-0.5 SOIL - 23/9/2025 SE290100.002	BH3 1-1.1 SOIL - 24/9/2025 SE290100.003	BH4 0.1-0.2 SOIL - 22/9/2025 SE290100.004	BH5 0.2-0.3 SOIL - 24/9/2025 SE290100.005
Arsenic, As	mg/kg	1	5	3	3	48	38
Cadmium, Cd	mg/kg	0.3	0.3	<0.3	<0.3	0.6	0.4
Chromium, Cr	mg/kg	0.5	10	24	13	14	12
Copper, Cu	mg/kg	0.5	24	15	3.4	11	18
Lead, Pb	mg/kg	1	150	61	29	100	37
Nickel, Ni	mg/kg	0.5	7.6	3.1	1.1	2.9	3.2
Zinc, Zn	mg/kg	2	100	43	42	95	73

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007	BH7 0.2-0.3 SOIL - 23/9/2025 SE290100.008	BH8 0.2-0.3 SOIL - 23/9/2025 SE290100.009	BH8 0.5-0.6 SOIL - 23/9/2025 SE290100.010
Arsenic, As	mg/kg	1	15	4	4	8	3
Cadmium, Cd	mg/kg	0.3	0.9	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	10	7.5	2.6	15	21
Copper, Cu	mg/kg	0.5	36	1.3	3.7	23	<0.5
Lead, Pb	mg/kg	1	60	11	28	76	9
Nickel, Ni	mg/kg	0.5	5.6	0.7	1.4	2.2	1.1
Zinc, Zn	mg/kg	2	160	5.1	32	160	17

PARAMETER	UOM	LOR	BH9 0.1-0.2 SOIL - 24/9/2025 SE290100.011	BH10 0.3-0.4 SOIL - 24/9/2025 SE290100.012	BH11 0.1-0.2 SOIL - 24/9/2025 SE290100.013	BH12 0.0-0.1 SOIL - 24/9/2025 SE290100.014	BH12 0.4-0.5 SOIL - 24/9/2025 SE290100.015
Arsenic, As	mg/kg	1	15	4	5	18	3
Cadmium, Cd	mg/kg	0.3	0.4	<0.3	0.6	0.4	<0.3
Chromium, Cr	mg/kg	0.5	15	7.4	11	5.5	17
Copper, Cu	mg/kg	0.5	34	14	82	22	1.1
Lead, Pb	mg/kg	1	61	52	100	69	12
Nickel, Ni	mg/kg	0.5	10	3.7	8.5	3.0	0.7
Zinc, Zn	mg/kg	2	170	69	280	110	17

PARAMETER	UOM	LOR	BH13 0.1-0.2 SOIL - 24/9/2025 SE290100.016	D1 SOIL - 23/9/2025 SE290100.019
Arsenic, As	mg/kg	1	4	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	3.8	2.6
Copper, Cu	mg/kg	0.5	5.7	4.0
Lead, Pb	mg/kg	1	43	26
Nickel, Ni	mg/kg	0.5	1.9	1.5
Zinc, Zn	mg/kg	2	36	25

Mercury in Soil [AN312] Tested: 30/9/2025

PARAMETER	UOM	LOR	BH1 0.3-0.4 SOIL - 23/9/2025 SE290100.001	BH2 0.4-0.5 SOIL - 23/9/2025 SE290100.002	BH3 1-1.1 SOIL - 24/9/2025 SE290100.003	BH4 0.1-0.2 SOIL - 22/9/2025 SE290100.004	BH5 0.2-0.3 SOIL - 24/9/2025 SE290100.005
Mercury	mg/kg	0.05	0.14	0.06	0.07	9.0	0.07

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007	BH7 0.2-0.3 SOIL - 23/9/2025 SE290100.008	BH8 0.2-0.3 SOIL - 23/9/2025 SE290100.009	BH8 0.5-0.6 SOIL - 23/9/2025 SE290100.010
Mercury	mg/kg	0.05	0.06	<0.05	0.06	0.28	0.06

PARAMETER	UOM	LOR	BH9 0.1-0.2 SOIL - 24/9/2025 SE290100.011	BH10 0.3-0.4 SOIL - 24/9/2025 SE290100.012	BH11 0.1-0.2 SOIL - 24/9/2025 SE290100.013	BH12 0.0-0.1 SOIL - 24/9/2025 SE290100.014	BH12 0.4-0.5 SOIL - 24/9/2025 SE290100.015
Mercury	mg/kg	0.05	0.21	0.15	0.25	0.35	0.06

PARAMETER	UOM	LOR	BH13 0.1-0.2 SOIL - 24/9/2025 SE290100.016	D1 SOIL - 23/9/2025 SE290100.019
Mercury	mg/kg	0.05	0.09	0.06

Moisture Content [AN002] Tested: 30/9/2025

PARAMETER	UOM	LOR	BH1 0.3-0.4 SOIL - 23/9/2025 SE290100.001	BH2 0.4-0.5 SOIL - 23/9/2025 SE290100.002	BH3 1-1.1 SOIL - 24/9/2025 SE290100.003	BH4 0.1-0.2 SOIL - 22/9/2025 SE290100.004	BH5 0.2-0.3 SOIL - 24/9/2025 SE290100.005
% Moisture	%w/w	1	12.1	12.7	13.0	21.5	20.8

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007	BH7 0.2-0.3 SOIL - 23/9/2025 SE290100.008	BH8 0.2-0.3 SOIL - 23/9/2025 SE290100.009	BH8 0.5-0.6 SOIL - 23/9/2025 SE290100.010
% Moisture	%w/w	1	38.1	15.8	9.0	16.6	18.1

PARAMETER	UOM	LOR	BH9 0.1-0.2 SOIL - 24/9/2025 SE290100.011	BH10 0.3-0.4 SOIL - 24/9/2025 SE290100.012	BH11 0.1-0.2 SOIL - 24/9/2025 SE290100.013	BH12 0.0-0.1 SOIL - 24/9/2025 SE290100.014	BH12 0.4-0.5 SOIL - 24/9/2025 SE290100.015
% Moisture	%w/w	1	15.3	8.3	42.0	16.0	15.3

PARAMETER	UOM	LOR	BH13 0.1-0.2 SOIL - 24/9/2025 SE290100.016	TB SOIL - 22/9/2025 SE290100.018	D1 SOIL - 23/9/2025 SE290100.019
% Moisture	%w/w	1	10.8	<1.0	8.4

Fibre Identification in soil [AS4964/AN602] Tested: 30/9/2025

PARAMETER	UOM	LOR	BH1 0.3-0.4 SOIL - 23/9/2025 SE290100.001	BH2 0.4-0.5 SOIL - 23/9/2025 SE290100.002	BH3 1-1.1 SOIL - 24/9/2025 SE290100.003	BH4 0.1-0.2 SOIL - 22/9/2025 SE290100.004	BH5 0.2-0.3 SOIL - 24/9/2025 SE290100.005
Asbestos Detected	No unit	-	Yes	No	No	No	No
Estimated Fibres*	%w/w	0.01	**>0.01**	<0.01	<0.01	<0.01	<0.01
Date Analysed*	No unit	-	01/10/2025 00:00	01/10/2025 00:00	01/10/2025 00:00	01/10/2025 00:00	01/10/2025 00:00

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH7 0.2-0.3 SOIL - 23/9/2025 SE290100.008	BH8 0.2-0.3 SOIL - 23/9/2025 SE290100.009	BH8 0.5-0.6 SOIL - 23/9/2025 SE290100.010	BH9 0.1-0.2 SOIL - 24/9/2025 SE290100.011
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Date Analysed*	No unit	-	01/10/2025 00:00	01/10/2025 00:00	01/10/2025 00:00	01/10/2025 00:00	01/10/2025 00:00

PARAMETER	UOM	LOR	BH10 0.3-0.4 SOIL - 24/9/2025 SE290100.012	BH11 0.1-0.2 SOIL - 24/9/2025 SE290100.013	BH12 0.0-0.1 SOIL - 24/9/2025 SE290100.014	BH12 0.4-0.5 SOIL - 24/9/2025 SE290100.015	BH13 0.1-0.2 SOIL - 24/9/2025 SE290100.016
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Date Analysed*	No unit	-	01/10/2025 00:00	01/10/2025 00:00	01/10/2025 00:00	01/10/2025 00:00	01/10/2025 00:00

Particle sizing of soils by sieving [AN005] Tested: 1/10/2025

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007
Passing 75µm*	%w/w	1	**29**	**60**
Retained 75µm*	%w/w	1	**71**	**40**

Particle sizing of soils <75µm by hydrometer [AN005] Tested: 1/10/2025

PARAMETER	UOM	LOR	BH6 0.1-0.2 SOIL - 23/9/2025 SE290100.006	BH6 0.5-0.6 SOIL - 23/9/2025 SE290100.007
Clay (<0.002mm)*	%w/w	0.1	**12**	**26**

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN005	The particle size distribution of a soil is determined by wet sieving, using a maximum of 900 mL of deionised water to sieve all fractions down to 75 µm. Referenced to AS1289.3.6.1 and AS1141.11.
AN005	Following wet sieving of the sample,(particles smaller than 75 µm) a dispersing solution is added and a hydrometer is used to measure sedimentation. Soil density is determined and the percentage of each size fraction calculated. Referenced to AS1289.3.6.3.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by AAS or ICP as per USEPA Method 200.8.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN122	Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g.
AN122	The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100. ESP can be used to categorise the sodicity of the soil as below: ESP < 6% non-sodic ESP 6-15% sodic ESP >15% strongly sodic Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.-
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting.

AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602/AS4964	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602/AS4964	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602/AS4964	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602/AS4964	The sample can be reported “no asbestos found at the reporting limit (RL) of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (a) no trace asbestos fibres have been detected (i.e. no ‘respirable’ fibres): (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR			
***	Indicates that both * and ** apply.		Sample listed, but not received.		
NAD	No Asbestos Detected.	NA	Not Applicable.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

STATEMENT OF QA/QC PERFORMANCE

SE290100 R0

CLIENT DETAILS

Contact	Ben Buckley
Client	FOUNDATION EARTH SCIENCES PTY LTD
Address	UNIT 119/14 LOYALTY ROAD NORTH ROCKS NSW 2151
Telephone	(Not specified)
Facsimile	(Not specified)
Email	ben@foundationes.com.au
Project	**E3403-2 Cammeray**
Order Number	**E3403-2**
Samples	19

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE290100 R0**
Date Received	25 Sep 2025
Date Reported	02 Oct 2025

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Duplicate	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
Matrix Spike	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item

SAMPLE SUMMARY

Sample counts by matrix	19 Soil	Date documentation received	25/9/2025
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	7.6°C	Turnaround time requested	Standard
Sample cooling method	Ice Bricks		

HOLDING TIME SUMMARY

SE290100 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH6 0.1-0.2	SE290100.006	LB363329	23 Sep 2025	25 Sep 2025	21 Oct 2025	02 Oct 2025	21 Oct 2025	02 Oct 2025
BH6 0.5-0.6	SE290100.007	LB363329	23 Sep 2025	25 Sep 2025	21 Oct 2025	02 Oct 2025	21 Oct 2025	02 Oct 2025

Fibre Identification in soil

Method: ME-(AU)-[ENV]AS4964/AN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.3-0.4	SE290100.001	LB363031	23 Sep 2025	25 Sep 2025	23 Sep 2026	30 Sep 2025	23 Sep 2026	02 Oct 2025
BH2 0.4-0.5	SE290100.002	LB363031	23 Sep 2025	25 Sep 2025	23 Sep 2026	30 Sep 2025	23 Sep 2026	02 Oct 2025
BH3 1-1.1	SE290100.003	LB363031	24 Sep 2025	25 Sep 2025	24 Sep 2026	30 Sep 2025	24 Sep 2026	02 Oct 2025
BH4 0.1-0.2	SE290100.004	LB363031	22 Sep 2025	25 Sep 2025	22 Sep 2026	30 Sep 2025	22 Sep 2026	02 Oct 2025
BH5 0.2-0.3	SE290100.005	LB363031	24 Sep 2025	25 Sep 2025	24 Sep 2026	30 Sep 2025	24 Sep 2026	02 Oct 2025
BH6 0.1-0.2	SE290100.006	LB363031	23 Sep 2025	25 Sep 2025	23 Sep 2026	30 Sep 2025	23 Sep 2026	02 Oct 2025
BH7 0.2-0.3	SE290100.008	LB363031	23 Sep 2025	25 Sep 2025	23 Sep 2026	30 Sep 2025	23 Sep 2026	02 Oct 2025
BH8 0.2-0.3	SE290100.009	LB363031	23 Sep 2025	25 Sep 2025	23 Sep 2026	30 Sep 2025	23 Sep 2026	02 Oct 2025
BH8 0.5-0.6	SE290100.010	LB363031	23 Sep 2025	25 Sep 2025	23 Sep 2026	30 Sep 2025	23 Sep 2026	02 Oct 2025
BH9 0.1-0.2	SE290100.011	LB363031	24 Sep 2025	25 Sep 2025	24 Sep 2026	30 Sep 2025	24 Sep 2026	02 Oct 2025
BH10 0.3-0.4	SE290100.012	LB363031	24 Sep 2025	25 Sep 2025	24 Sep 2026	30 Sep 2025	24 Sep 2026	02 Oct 2025
BH11 0.1-0.2	SE290100.013	LB363031	24 Sep 2025	25 Sep 2025	24 Sep 2026	30 Sep 2025	24 Sep 2026	02 Oct 2025
BH12 0.0-0.1	SE290100.014	LB363031	24 Sep 2025	25 Sep 2025	24 Sep 2026	30 Sep 2025	24 Sep 2026	02 Oct 2025
BH12 0.4-0.5	SE290100.015	LB363031	24 Sep 2025	25 Sep 2025	24 Sep 2026	30 Sep 2025	24 Sep 2026	02 Oct 2025
BH13 0.1-0.2	SE290100.016	LB363031	24 Sep 2025	25 Sep 2025	24 Sep 2026	30 Sep 2025	24 Sep 2026	02 Oct 2025

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.3-0.4	SE290100.001	LB363008	23 Sep 2025	25 Sep 2025	21 Oct 2025	30 Sep 2025	21 Oct 2025	02 Oct 2025
BH2 0.4-0.5	SE290100.002	LB363008	23 Sep 2025	25 Sep 2025	21 Oct 2025	30 Sep 2025	21 Oct 2025	02 Oct 2025
BH3 1-1.1	SE290100.003	LB363008	24 Sep 2025	25 Sep 2025	22 Oct 2025	30 Sep 2025	22 Oct 2025	02 Oct 2025
BH4 0.1-0.2	SE290100.004	LB363008	22 Sep 2025	25 Sep 2025	20 Oct 2025	30 Sep 2025	20 Oct 2025	02 Oct 2025
BH5 0.2-0.3	SE290100.005	LB363008	24 Sep 2025	25 Sep 2025	22 Oct 2025	30 Sep 2025	22 Oct 2025	02 Oct 2025
BH6 0.1-0.2	SE290100.006	LB363008	23 Sep 2025	25 Sep 2025	21 Oct 2025	30 Sep 2025	21 Oct 2025	02 Oct 2025
BH6 0.5-0.6	SE290100.007	LB363008	23 Sep 2025	25 Sep 2025	21 Oct 2025	30 Sep 2025	21 Oct 2025	02 Oct 2025
BH7 0.2-0.3	SE290100.008	LB363008	23 Sep 2025	25 Sep 2025	21 Oct 2025	30 Sep 2025	21 Oct 2025	02 Oct 2025
BH8 0.2-0.3	SE290100.009	LB363008	23 Sep 2025	25 Sep 2025	21 Oct 2025	30 Sep 2025	21 Oct 2025	02 Oct 2025
BH8 0.5-0.6	SE290100.010	LB363008	23 Sep 2025	25 Sep 2025	21 Oct 2025	30 Sep 2025	21 Oct 2025	02 Oct 2025
BH9 0.1-0.2	SE290100.011	LB363008	24 Sep 2025	25 Sep 2025	22 Oct 2025	30 Sep 2025	22 Oct 2025	02 Oct 2025
BH10 0.3-0.4	SE290100.012	LB363008	24 Sep 2025	25 Sep 2025	22 Oct 2025	30 Sep 2025	22 Oct 2025	02 Oct 2025
BH11 0.1-0.2	SE290100.013	LB363008	24 Sep 2025	25 Sep 2025	22 Oct 2025	30 Sep 2025	22 Oct 2025	02 Oct 2025
BH12 0.0-0.1	SE290100.014	LB363008	24 Sep 2025	25 Sep 2025	22 Oct 2025	30 Sep 2025	22 Oct 2025	02 Oct 2025
BH12 0.4-0.5	SE290100.015	LB363008	24 Sep 2025	25 Sep 2025	22 Oct 2025	30 Sep 2025	22 Oct 2025	02 Oct 2025
BH13 0.1-0.2	SE290100.016	LB363008	24 Sep 2025	25 Sep 2025	22 Oct 2025	30 Sep 2025	22 Oct 2025	02 Oct 2025
D1	SE290100.019	LB363008	23 Sep 2025	25 Sep 2025	21 Oct 2025	30 Sep 2025	21 Oct 2025	02 Oct 2025

Moisture Content

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.3-0.4	SE290100.001	LB362998	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH2 0.4-0.5	SE290100.002	LB362998	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH3 1-1.1	SE290100.003	LB362998	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH4 0.1-0.2	SE290100.004	LB362998	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH5 0.2-0.3	SE290100.005	LB362998	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH6 0.1-0.2	SE290100.006	LB362998	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH6 0.5-0.6	SE290100.007	LB362998	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH7 0.2-0.3	SE290100.008	LB362998	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH8 0.2-0.3	SE290100.009	LB362998	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH8 0.5-0.6	SE290100.010	LB362998	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH9 0.1-0.2	SE290100.011	LB362998	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH10 0.3-0.4	SE290100.012	LB362998	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH11 0.1-0.2	SE290100.013	LB362998	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH12 0.0-0.1	SE290100.014	LB362998	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH12 0.4-0.5	SE290100.015	LB362998	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
BH13 0.1-0.2	SE290100.016	LB362998	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
TB	SE290100.018	LB362998	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025
D1	SE290100.019	LB362998	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	05 Oct 2025	02 Oct 2025

HOLDING TIME SUMMARY

SE290100 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.3-0.4	SE290100.001	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH2 0.4-0.5	SE290100.002	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH3 1-1.1	SE290100.003	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH4 0.1-0.2	SE290100.004	LB362932	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH5 0.2-0.3	SE290100.005	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH6 0.1-0.2	SE290100.006	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH6 0.5-0.6	SE290100.007	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH7 0.2-0.3	SE290100.008	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH8 0.2-0.3	SE290100.009	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH8 0.5-0.6	SE290100.010	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH9 0.1-0.2	SE290100.011	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH10 0.3-0.4	SE290100.012	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH11 0.1-0.2	SE290100.013	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH12 0.0-0.1	SE290100.014	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH12 0.4-0.5	SE290100.015	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH13 0.1-0.2	SE290100.016	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
D1	SE290100.019	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.3-0.4	SE290100.001	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH2 0.4-0.5	SE290100.002	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH3 1-1.1	SE290100.003	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH4 0.1-0.2	SE290100.004	LB362932	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH5 0.2-0.3	SE290100.005	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH6 0.1-0.2	SE290100.006	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH6 0.5-0.6	SE290100.007	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH7 0.2-0.3	SE290100.008	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH8 0.2-0.3	SE290100.009	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH8 0.5-0.6	SE290100.010	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH9 0.1-0.2	SE290100.011	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH10 0.3-0.4	SE290100.012	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH11 0.1-0.2	SE290100.013	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH12 0.0-0.1	SE290100.014	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH12 0.4-0.5	SE290100.015	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH13 0.1-0.2	SE290100.016	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
D1	SE290100.019	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.3-0.4	SE290100.001	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH2 0.4-0.5	SE290100.002	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH3 1-1.1	SE290100.003	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH4 0.1-0.2	SE290100.004	LB362932	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH5 0.2-0.3	SE290100.005	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH6 0.1-0.2	SE290100.006	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH6 0.5-0.6	SE290100.007	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH7 0.2-0.3	SE290100.008	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH8 0.2-0.3	SE290100.009	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH8 0.5-0.6	SE290100.010	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH9 0.1-0.2	SE290100.011	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH10 0.3-0.4	SE290100.012	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH11 0.1-0.2	SE290100.013	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH12 0.0-0.1	SE290100.014	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH12 0.4-0.5	SE290100.015	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH13 0.1-0.2	SE290100.016	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
D1	SE290100.019	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PCBs in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.3-0.4	SE290100.001	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH2 0.4-0.5	SE290100.002	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH3 1-1.1	SE290100.003	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH4 0.1-0.2	SE290100.004	LB362932	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH5 0.2-0.3	SE290100.005	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH6 0.1-0.2	SE290100.006	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH6 0.5-0.6	SE290100.007	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH7 0.2-0.3	SE290100.008	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH8 0.2-0.3	SE290100.009	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH8 0.5-0.6	SE290100.010	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH9 0.1-0.2	SE290100.011	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH10 0.3-0.4	SE290100.012	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH11 0.1-0.2	SE290100.013	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH12 0.0-0.1	SE290100.014	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH12 0.4-0.5	SE290100.015	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH13 0.1-0.2	SE290100.016	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
D1	SE290100.019	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH6 0.1-0.2	SE290100.006	LB363024	23 Sep 2025	25 Sep 2025	30 Sep 2025	30 Sep 2025	01 Oct 2025	30 Sep 2025
BH6 0.5-0.6	SE290100.007	LB363024	23 Sep 2025	25 Sep 2025	30 Sep 2025	30 Sep 2025	01 Oct 2025	30 Sep 2025

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.3-0.4	SE290100.001	LB363002	23 Sep 2025	25 Sep 2025	22 Mar 2026	30 Sep 2025	22 Mar 2026	02 Oct 2025
BH2 0.4-0.5	SE290100.002	LB363002	23 Sep 2025	25 Sep 2025	22 Mar 2026	30 Sep 2025	22 Mar 2026	02 Oct 2025
BH3 1-1.1	SE290100.003	LB363002	24 Sep 2025	25 Sep 2025	23 Mar 2026	30 Sep 2025	23 Mar 2026	02 Oct 2025
BH4 0.1-0.2	SE290100.004	LB363002	22 Sep 2025	25 Sep 2025	21 Mar 2026	30 Sep 2025	21 Mar 2026	02 Oct 2025
BH5 0.2-0.3	SE290100.005	LB363002	24 Sep 2025	25 Sep 2025	23 Mar 2026	30 Sep 2025	23 Mar 2026	02 Oct 2025
BH6 0.1-0.2	SE290100.006	LB363002	23 Sep 2025	25 Sep 2025	22 Mar 2026	30 Sep 2025	22 Mar 2026	02 Oct 2025
BH6 0.5-0.6	SE290100.007	LB363002	23 Sep 2025	25 Sep 2025	22 Mar 2026	30 Sep 2025	22 Mar 2026	02 Oct 2025
BH7 0.2-0.3	SE290100.008	LB363002	23 Sep 2025	25 Sep 2025	22 Mar 2026	30 Sep 2025	22 Mar 2026	02 Oct 2025
BH8 0.2-0.3	SE290100.009	LB363002	23 Sep 2025	25 Sep 2025	22 Mar 2026	30 Sep 2025	22 Mar 2026	02 Oct 2025
BH8 0.5-0.6	SE290100.010	LB363002	23 Sep 2025	25 Sep 2025	22 Mar 2026	30 Sep 2025	22 Mar 2026	02 Oct 2025
BH9 0.1-0.2	SE290100.011	LB363002	24 Sep 2025	25 Sep 2025	23 Mar 2026	30 Sep 2025	23 Mar 2026	02 Oct 2025
BH10 0.3-0.4	SE290100.012	LB363002	24 Sep 2025	25 Sep 2025	23 Mar 2026	30 Sep 2025	23 Mar 2026	02 Oct 2025
BH11 0.1-0.2	SE290100.013	LB363002	24 Sep 2025	25 Sep 2025	23 Mar 2026	30 Sep 2025	23 Mar 2026	02 Oct 2025
BH12 0.0-0.1	SE290100.014	LB363002	24 Sep 2025	25 Sep 2025	23 Mar 2026	30 Sep 2025	23 Mar 2026	02 Oct 2025
BH12 0.4-0.5	SE290100.015	LB363002	24 Sep 2025	25 Sep 2025	23 Mar 2026	30 Sep 2025	23 Mar 2026	02 Oct 2025
BH13 0.1-0.2	SE290100.016	LB363002	24 Sep 2025	25 Sep 2025	23 Mar 2026	30 Sep 2025	23 Mar 2026	02 Oct 2025
D1	SE290100.019	LB363002	23 Sep 2025	25 Sep 2025	22 Mar 2026	30 Sep 2025	22 Mar 2026	02 Oct 2025

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.3-0.4	SE290100.001	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH2 0.4-0.5	SE290100.002	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH3 1-1.1	SE290100.003	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH4 0.1-0.2	SE290100.004	LB362932	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH5 0.2-0.3	SE290100.005	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH6 0.1-0.2	SE290100.006	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH6 0.5-0.6	SE290100.007	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH7 0.2-0.3	SE290100.008	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH8 0.2-0.3	SE290100.009	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH8 0.5-0.6	SE290100.010	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH9 0.1-0.2	SE290100.011	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH10 0.3-0.4	SE290100.012	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH11 0.1-0.2	SE290100.013	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH12 0.0-0.1	SE290100.014	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH12 0.4-0.5	SE290100.015	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025
BH13 0.1-0.2	SE290100.016	LB362932	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025

HOLDING TIME SUMMARY

SE290100 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
D1	SE290100.019	LB362932	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	09 Nov 2025	02 Oct 2025

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.3-0.4	SE290100.001	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH2 0.4-0.5	SE290100.002	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH3 1-1.1	SE290100.003	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH4 0.1-0.2	SE290100.004	LB362993	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	06 Oct 2025	02 Oct 2025
BH5 0.2-0.3	SE290100.005	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH6 0.1-0.2	SE290100.006	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH6 0.5-0.6	SE290100.007	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH7 0.2-0.3	SE290100.008	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH8 0.2-0.3	SE290100.009	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH8 0.5-0.6	SE290100.010	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH9 0.1-0.2	SE290100.011	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH10 0.3-0.4	SE290100.012	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH11 0.1-0.2	SE290100.013	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH12 0.0-0.1	SE290100.014	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH12 0.4-0.5	SE290100.015	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH13 0.1-0.2	SE290100.016	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
TS	SE290100.017	LB362993	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	06 Oct 2025	02 Oct 2025
TB	SE290100.018	LB362993	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	06 Oct 2025	02 Oct 2025
D1	SE290100.019	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.3-0.4	SE290100.001	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH2 0.4-0.5	SE290100.002	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH3 1-1.1	SE290100.003	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH4 0.1-0.2	SE290100.004	LB362993	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	06 Oct 2025	02 Oct 2025
BH5 0.2-0.3	SE290100.005	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH6 0.1-0.2	SE290100.006	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH6 0.5-0.6	SE290100.007	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH7 0.2-0.3	SE290100.008	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH8 0.2-0.3	SE290100.009	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH8 0.5-0.6	SE290100.010	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025
BH9 0.1-0.2	SE290100.011	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH10 0.3-0.4	SE290100.012	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH11 0.1-0.2	SE290100.013	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH12 0.0-0.1	SE290100.014	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH12 0.4-0.5	SE290100.015	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
BH13 0.1-0.2	SE290100.016	LB362993	24 Sep 2025	25 Sep 2025	08 Oct 2025	30 Sep 2025	08 Oct 2025	02 Oct 2025
TS	SE290100.017	LB362993	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	06 Oct 2025	02 Oct 2025
TB	SE290100.018	LB362993	22 Sep 2025	25 Sep 2025	06 Oct 2025	30 Sep 2025	06 Oct 2025	02 Oct 2025
D1	SE290100.019	LB362993	23 Sep 2025	25 Sep 2025	07 Oct 2025	30 Sep 2025	07 Oct 2025	02 Oct 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH1 0.3-0.4	SE290100.001	%	60 - 130%	93
	BH2 0.4-0.5	SE290100.002	%	60 - 130%	93
	BH3 1-1.1	SE290100.003	%	60 - 130%	97
	BH4 0.1-0.2	SE290100.004	%	60 - 130%	91
	BH5 0.2-0.3	SE290100.005	%	60 - 130%	98
	BH6 0.1-0.2	SE290100.006	%	60 - 130%	94
	BH6 0.5-0.6	SE290100.007	%	60 - 130%	93
	BH7 0.2-0.3	SE290100.008	%	60 - 130%	92
	BH8 0.2-0.3	SE290100.009	%	60 - 130%	88
	BH8 0.5-0.6	SE290100.010	%	60 - 130%	94
	BH9 0.1-0.2	SE290100.011	%	60 - 130%	92
	BH10 0.3-0.4	SE290100.012	%	60 - 130%	96
	BH11 0.1-0.2	SE290100.013	%	60 - 130%	98
	BH12 0.0-0.1	SE290100.014	%	60 - 130%	89
	BH12 0.4-0.5	SE290100.015	%	60 - 130%	108
	BH13 0.1-0.2	SE290100.016	%	60 - 130%	92
	D1	SE290100.019	%	60 - 130%	94

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1 0.3-0.4	SE290100.001	%	60 - 130%	91
	BH7 0.2-0.3	SE290100.008	%	60 - 130%	87
	BH12 0.0-0.1	SE290100.014	%	60 - 130%	86
d14-p-terphenyl (Surrogate)	BH1 0.3-0.4	SE290100.001	%	60 - 130%	86
	BH7 0.2-0.3	SE290100.008	%	60 - 130%	84
	BH12 0.0-0.1	SE290100.014	%	60 - 130%	82

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1 0.3-0.4	SE290100.001	%	70 - 130%	91
	BH2 0.4-0.5	SE290100.002	%	70 - 130%	87
	BH3 1-1.1	SE290100.003	%	70 - 130%	88
	BH4 0.1-0.2	SE290100.004	%	70 - 130%	88
	BH5 0.2-0.3	SE290100.005	%	70 - 130%	93
	BH6 0.1-0.2	SE290100.006	%	70 - 130%	89
	BH6 0.5-0.6	SE290100.007	%	70 - 130%	85
	BH7 0.2-0.3	SE290100.008	%	70 - 130%	87
	BH8 0.2-0.3	SE290100.009	%	70 - 130%	84
	BH8 0.5-0.6	SE290100.010	%	70 - 130%	87
	BH9 0.1-0.2	SE290100.011	%	70 - 130%	89
	BH10 0.3-0.4	SE290100.012	%	70 - 130%	92
	BH11 0.1-0.2	SE290100.013	%	70 - 130%	89
	BH12 0.0-0.1	SE290100.014	%	70 - 130%	86
	BH12 0.4-0.5	SE290100.015	%	70 - 130%	102
	BH13 0.1-0.2	SE290100.016	%	70 - 130%	89
	D1	SE290100.019	%	70 - 130%	90
d14-p-terphenyl (Surrogate)	BH1 0.3-0.4	SE290100.001	%	70 - 130%	86
	BH2 0.4-0.5	SE290100.002	%	70 - 130%	86
	BH3 1-1.1	SE290100.003	%	70 - 130%	89
	BH4 0.1-0.2	SE290100.004	%	70 - 130%	84
	BH5 0.2-0.3	SE290100.005	%	70 - 130%	91
	BH6 0.1-0.2	SE290100.006	%	70 - 130%	86
	BH6 0.5-0.6	SE290100.007	%	70 - 130%	84
	BH7 0.2-0.3	SE290100.008	%	70 - 130%	84
	BH8 0.2-0.3	SE290100.009	%	70 - 130%	82
	BH8 0.5-0.6	SE290100.010	%	70 - 130%	87
	BH9 0.1-0.2	SE290100.011	%	70 - 130%	84
	BH10 0.3-0.4	SE290100.012	%	70 - 130%	88
	BH11 0.1-0.2	SE290100.013	%	70 - 130%	91
	BH12 0.0-0.1	SE290100.014	%	70 - 130%	82
	BH12 0.4-0.5	SE290100.015	%	70 - 130%	99
	BH13 0.1-0.2	SE290100.016	%	70 - 130%	83

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d14-p-terphenyl (Surrogate)	D1	SE290100.019	%	70 - 130%	86
d5-nitrobenzene (Surrogate)	BH1 0.3-0.4	SE290100.001	%	70 - 130%	89
	BH2 0.4-0.5	SE290100.002	%	70 - 130%	87
	BH3 1-1.1	SE290100.003	%	70 - 130%	87
	BH4 0.1-0.2	SE290100.004	%	70 - 130%	87
	BH5 0.2-0.3	SE290100.005	%	70 - 130%	95
	BH6 0.1-0.2	SE290100.006	%	70 - 130%	88
	BH6 0.5-0.6	SE290100.007	%	70 - 130%	85
	BH7 0.2-0.3	SE290100.008	%	70 - 130%	85
	BH8 0.2-0.3	SE290100.009	%	70 - 130%	83
	BH8 0.5-0.6	SE290100.010	%	70 - 130%	85
	BH9 0.1-0.2	SE290100.011	%	70 - 130%	86
	BH10 0.3-0.4	SE290100.012	%	70 - 130%	91
	BH11 0.1-0.2	SE290100.013	%	70 - 130%	92
	BH12 0.0-0.1	SE290100.014	%	70 - 130%	85
	BH12 0.4-0.5	SE290100.015	%	70 - 130%	101
	BH13 0.1-0.2	SE290100.016	%	70 - 130%	87
	D1	SE290100.019	%	70 - 130%	88

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH1 0.3-0.4	SE290100.001	%	60 - 130%	93
	BH2 0.4-0.5	SE290100.002	%	60 - 130%	93
	BH3 1-1.1	SE290100.003	%	60 - 130%	97
	BH4 0.1-0.2	SE290100.004	%	60 - 130%	91
	BH5 0.2-0.3	SE290100.005	%	60 - 130%	98
	BH6 0.1-0.2	SE290100.006	%	60 - 130%	94
	BH6 0.5-0.6	SE290100.007	%	60 - 130%	93
	BH7 0.2-0.3	SE290100.008	%	60 - 130%	92
	BH8 0.2-0.3	SE290100.009	%	60 - 130%	88
	BH8 0.5-0.6	SE290100.010	%	60 - 130%	94
	BH9 0.1-0.2	SE290100.011	%	60 - 130%	92
	BH10 0.3-0.4	SE290100.012	%	60 - 130%	96
	BH11 0.1-0.2	SE290100.013	%	60 - 130%	98
	BH12 0.0-0.1	SE290100.014	%	60 - 130%	89
	BH12 0.4-0.5	SE290100.015	%	60 - 130%	108
	BH13 0.1-0.2	SE290100.016	%	60 - 130%	92
	D1	SE290100.019	%	60 - 130%	94

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1 0.3-0.4	SE290100.001	%	60 - 130%	90
	BH2 0.4-0.5	SE290100.002	%	60 - 130%	91
	BH3 1-1.1	SE290100.003	%	60 - 130%	94
	BH4 0.1-0.2	SE290100.004	%	60 - 130%	84
	BH5 0.2-0.3	SE290100.005	%	60 - 130%	92
	BH6 0.1-0.2	SE290100.006	%	60 - 130%	83
	BH6 0.5-0.6	SE290100.007	%	60 - 130%	97
	BH7 0.2-0.3	SE290100.008	%	60 - 130%	94
	BH8 0.2-0.3	SE290100.009	%	60 - 130%	93
	BH8 0.5-0.6	SE290100.010	%	60 - 130%	104
	BH9 0.1-0.2	SE290100.011	%	60 - 130%	87
	BH10 0.3-0.4	SE290100.012	%	60 - 130%	94
	BH11 0.1-0.2	SE290100.013	%	60 - 130%	82
	BH12 0.0-0.1	SE290100.014	%	60 - 130%	90
	BH12 0.4-0.5	SE290100.015	%	60 - 130%	93
	BH13 0.1-0.2	SE290100.016	%	60 - 130%	96
	TS	SE290100.017	%	60 - 130%	89
	TB	SE290100.018	%	60 - 130%	104
	D1	SE290100.019	%	60 - 130%	92
d4-1,2-dichloroethane (Surrogate)	BH1 0.3-0.4	SE290100.001	%	60 - 130%	82
	BH2 0.4-0.5	SE290100.002	%	60 - 130%	81

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	BH3 1-1.1	SE290100.003	%	60 - 130%	83
	BH4 0.1-0.2	SE290100.004	%	60 - 130%	75
	BH5 0.2-0.3	SE290100.005	%	60 - 130%	82
	BH6 0.1-0.2	SE290100.006	%	60 - 130%	71
	BH6 0.5-0.6	SE290100.007	%	60 - 130%	88
	BH7 0.2-0.3	SE290100.008	%	60 - 130%	85
	BH8 0.2-0.3	SE290100.009	%	60 - 130%	84
	BH8 0.5-0.6	SE290100.010	%	60 - 130%	94
	BH9 0.1-0.2	SE290100.011	%	60 - 130%	80
	BH10 0.3-0.4	SE290100.012	%	60 - 130%	86
	BH11 0.1-0.2	SE290100.013	%	60 - 130%	73
	BH12 0.0-0.1	SE290100.014	%	60 - 130%	82
	BH12 0.4-0.5	SE290100.015	%	60 - 130%	83
	BH13 0.1-0.2	SE290100.016	%	60 - 130%	87
	TS	SE290100.017	%	60 - 130%	85
	TB	SE290100.018	%	60 - 130%	96
	D1	SE290100.019	%	60 - 130%	85
d8-toluene (Surrogate)	BH1 0.3-0.4	SE290100.001	%	60 - 130%	86
	BH2 0.4-0.5	SE290100.002	%	60 - 130%	85
	BH3 1-1.1	SE290100.003	%	60 - 130%	86
	BH4 0.1-0.2	SE290100.004	%	60 - 130%	78
	BH5 0.2-0.3	SE290100.005	%	60 - 130%	85
	BH6 0.1-0.2	SE290100.006	%	60 - 130%	75
	BH6 0.5-0.6	SE290100.007	%	60 - 130%	92
	BH7 0.2-0.3	SE290100.008	%	60 - 130%	88
	BH8 0.2-0.3	SE290100.009	%	60 - 130%	88
	BH8 0.5-0.6	SE290100.010	%	60 - 130%	99
	BH9 0.1-0.2	SE290100.011	%	60 - 130%	84
	BH10 0.3-0.4	SE290100.012	%	60 - 130%	89
	BH11 0.1-0.2	SE290100.013	%	60 - 130%	75
	BH12 0.0-0.1	SE290100.014	%	60 - 130%	84
	BH12 0.4-0.5	SE290100.015	%	60 - 130%	86
	BH13 0.1-0.2	SE290100.016	%	60 - 130%	90
	TS	SE290100.017	%	60 - 130%	87
	TB	SE290100.018	%	60 - 130%	99
	D1	SE290100.019	%	60 - 130%	88

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1 0.3-0.4	SE290100.001	%	60 - 130%	90
	BH2 0.4-0.5	SE290100.002	%	60 - 130%	91
	BH3 1-1.1	SE290100.003	%	60 - 130%	94
	BH4 0.1-0.2	SE290100.004	%	60 - 130%	84
	BH5 0.2-0.3	SE290100.005	%	60 - 130%	92
	BH6 0.1-0.2	SE290100.006	%	60 - 130%	83
	BH6 0.5-0.6	SE290100.007	%	60 - 130%	97
	BH7 0.2-0.3	SE290100.008	%	60 - 130%	94
	BH8 0.2-0.3	SE290100.009	%	60 - 130%	93
	BH8 0.5-0.6	SE290100.010	%	60 - 130%	104
	BH9 0.1-0.2	SE290100.011	%	60 - 130%	87
	BH10 0.3-0.4	SE290100.012	%	60 - 130%	94
	BH11 0.1-0.2	SE290100.013	%	60 - 130%	82
	BH12 0.0-0.1	SE290100.014	%	60 - 130%	90
	BH12 0.4-0.5	SE290100.015	%	60 - 130%	93
	BH13 0.1-0.2	SE290100.016	%	60 - 130%	96
	TB	SE290100.018	%	60 - 130%	104
	D1	SE290100.019	%	60 - 130%	92
d4-1,2-dichloroethane (Surrogate)	BH1 0.3-0.4	SE290100.001	%	60 - 130%	82
	BH2 0.4-0.5	SE290100.002	%	60 - 130%	81
	BH3 1-1.1	SE290100.003	%	60 - 130%	83
	BH4 0.1-0.2	SE290100.004	%	60 - 130%	75

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	BH5 0.2-0.3	SE290100.005	%	60 - 130%	82
	BH6 0.1-0.2	SE290100.006	%	60 - 130%	71
	BH6 0.5-0.6	SE290100.007	%	60 - 130%	88
	BH7 0.2-0.3	SE290100.008	%	60 - 130%	85
	BH8 0.2-0.3	SE290100.009	%	60 - 130%	84
	BH8 0.5-0.6	SE290100.010	%	60 - 130%	94
	BH9 0.1-0.2	SE290100.011	%	60 - 130%	80
	BH10 0.3-0.4	SE290100.012	%	60 - 130%	86
	BH11 0.1-0.2	SE290100.013	%	60 - 130%	73
	BH12 0.0-0.1	SE290100.014	%	60 - 130%	82
	BH12 0.4-0.5	SE290100.015	%	60 - 130%	83
	BH13 0.1-0.2	SE290100.016	%	60 - 130%	87
	TB	SE290100.018	%	60 - 130%	96
	D1	SE290100.019	%	60 - 130%	85
d8-toluene (Surrogate)	BH1 0.3-0.4	SE290100.001	%	60 - 130%	86
	BH2 0.4-0.5	SE290100.002	%	60 - 130%	85
	BH3 1-1.1	SE290100.003	%	60 - 130%	86
	BH4 0.1-0.2	SE290100.004	%	60 - 130%	78
	BH5 0.2-0.3	SE290100.005	%	60 - 130%	85
	BH6 0.1-0.2	SE290100.006	%	60 - 130%	75
	BH6 0.5-0.6	SE290100.007	%	60 - 130%	92
	BH7 0.2-0.3	SE290100.008	%	60 - 130%	88
	BH8 0.2-0.3	SE290100.009	%	60 - 130%	88
	BH8 0.5-0.6	SE290100.010	%	60 - 130%	99
	BH9 0.1-0.2	SE290100.011	%	60 - 130%	84
	BH10 0.3-0.4	SE290100.012	%	60 - 130%	89
	BH11 0.1-0.2	SE290100.013	%	60 - 130%	75
	BH12 0.0-0.1	SE290100.014	%	60 - 130%	84
	BH12 0.4-0.5	SE290100.015	%	60 - 130%	86
	BH13 0.1-0.2	SE290100.016	%	60 - 130%	90
	TB	SE290100.018	%	60 - 130%	99
	D1	SE290100.019	%	60 - 130%	88

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Number	Parameter	Units	LOR	Result
LB363329.001	Exchangeable Sodium, Na	mg/kg	2	-0.4123
	Exchangeable Potassium, K	mg/kg	2	-0.4137
	Exchangeable Calcium, Ca	mg/kg	2	0.0573
	Exchangeable Magnesium, Mg	mg/kg	2	-0.0091

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result
LB363008.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB362932.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.1	<0.1
		Endrin	mg/kg	0.1	<0.1
		Beta Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	94

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB362932.001		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
		Bromophos Ethyl	mg/kg	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5
		Dichlorvos	mg/kg	0.5	<0.5
		Dimethoate	mg/kg	0.5	<0.5
		Ethion	mg/kg	0.2	<0.2
		Fenitrothion	mg/kg	0.2	<0.2
		Malathion	mg/kg	0.2	<0.2
		Methidathion	mg/kg	0.5	<0.5
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	91
		d14-p-terphenyl (Surrogate)	%	-	88

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB362932.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB362932.001		Anthracene	mg/kg	0.1	<0.1
		Fluoranthene	mg/kg	0.1	<0.1
		Pyrene	mg/kg	0.1	<0.1
		Benzo(a)anthracene	mg/kg	0.1	<0.1
		Chrysene	mg/kg	0.1	<0.1
		Benzo(a)pyrene	mg/kg	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
		Benzo(ghi)perylene	mg/kg	0.1	<0.1
		Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	91
		2-fluorobiphenyl (Surrogate)	%	-	91
		d14-p-terphenyl (Surrogate)	%	-	88

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB362932.001		Arochlor 1016	mg/kg	0.1	<0.1
		Arochlor 1221	mg/kg	0.1	<0.1
		Arochlor 1232	mg/kg	0.1	<0.1
		Arochlor 1242	mg/kg	0.1	<0.1
		Arochlor 1248	mg/kg	0.1	<0.1
		Arochlor 1254	mg/kg	0.1	<0.1
		Arochlor 1260	mg/kg	0.1	<0.1
		Total PCBs	mg/kg	0.1	<0.1
	Surrogates	TCMX (Surrogate)	%	-	94

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number		Parameter	Units	LOR	Result
LB363002.001		Arsenic, As	mg/kg	1	<1
		Cadmium, Cd	mg/kg	0.3	<0.3
		Chromium, Cr	mg/kg	0.5	<0.5
		Copper, Cu	mg/kg	0.5	<0.5
		Nickel, Ni	mg/kg	0.5	<0.5
		Lead, Pb	mg/kg	1	<1
		Zinc, Zn	mg/kg	2	<2.0

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result
LB362932.001		TRH C10-C14	mg/kg	20	<20
		TRH C15-C28	mg/kg	45	<45
		TRH C29-C36	mg/kg	45	<45
		TRH C37-C40	mg/kg	100	<100
		TRH C10-C36 Total	mg/kg	110	<110

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB362993.001	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1
	Hydrocarbons	Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	93
		d8-toluene (Surrogate)	%	-	96
		Bromofluorobenzene (Surrogate)	%	-	100
	Totals	Total BTEX*	mg/kg	0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB362993.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	93

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290100.010	LB363008.014	Mercury	mg/kg	0.05	0.06	0.07	107	26
SE290100.019	LB363008.022	Mercury	mg/kg	0.05	0.06	0.08	101	23

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290100.010	LB362998.011	% Moisture	%w/w	1	18.1	19.2	35	6
SE290100.019	LB362998.020	% Moisture	%w/w	1	8.4	10.1	41	19

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290100.010	LB362932.014		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.47	0.46	30	2
SE290100.014	LB362932.024		Alpha BHC	mg/kg	0.1	<0.1	5.0082951103	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	0.0006457771	200	0
			Beta BHC	mg/kg	0.1	<0.1	0.0006631561	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	0.0006760587	200	0
			Delta BHC	mg/kg	0.1	<0.1	0.0038277504	200	0
			Heptachlor	mg/kg	0.1	<0.1	0.0031661739	200	0
			Aldrin	mg/kg	0.1	<0.1	0.0023618908	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	0.0162981630	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	0.0497817971	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	0.0900760050	158	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	0.1	0.1398578022	113	32
			Alpha Endosulfan	mg/kg	0.1	<0.1	0.0277197818	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	0.0034983434	200	0
			Dieldrin	mg/kg	0.1	0.2	0.1978710264	80	3
			Endrin	mg/kg	0.1	<0.1	0.0034985064	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	0.0054937034	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	0.0018856268	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	0.0020628177	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	0.0022924046	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	0.0138399205	200	0
			Endrin ketone	mg/kg	0.1	<0.1	0.0061354653	200	0
			Methoxychlor	mg/kg	0.1	<0.1	0.0055618745	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290100.014	LB362932.024		Mirex	mg/kg	0.1	<0.1	0.0007367332	200	0
			Total OC Pesticides	mg/kg	0.1	0.2	0.1978710264	80	3
			Total OC VIC EPA IWRG621	mg/kg	0.1	0.2	0.1978710264	80	3
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	0	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.45	0.4546908021	30	2

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290100.014	LB362932.024		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	0.0012855406	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	0.0005567651	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	0.0054831352	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	0.0001801074	200	0
			Dichlorvos	mg/kg	0.5	<0.5	0.0006194768	200	0
			Dimethoate	mg/kg	0.5	<0.5	0.0026867108	200	0
			Ethion	mg/kg	0.2	<0.2	0.0029847665	200	0
			Fenitrothion	mg/kg	0.2	<0.2	7.3295068056	200	0
			Malathion	mg/kg	0.2	<0.2	0.0094215352	200	0
			Methidathion	mg/kg	0.5	<0.5	0.0004918639	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	0.0007313074	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	0	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4434035436	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4192072233	30	3

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290100.010	LB362932.014		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	30	1
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	3
SE290100.014	LB362932.024		Naphthalene	mg/kg	0.1	<0.1	0.0026253734	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	0.0015503957	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	0.0013253226	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	0.0064038412	200	0
			Acenaphthene	mg/kg	0.1	<0.1	0.0005852311	200	0
			Fluorene	mg/kg	0.1	<0.1	0.0011399224	200	0
			Phenanthrene	mg/kg	0.1	<0.1	0.0269388677	200	0
			Anthracene	mg/kg	0.1	<0.1	0.0062090223	200	0
			Fluoranthene	mg/kg	0.1	<0.1	0.0668009274	193	0
			Pyrene	mg/kg	0.1	<0.1	0.0673771911	189	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	0.0357313734	200	0
			Chrysene	mg/kg	0.1	<0.1	0.0383558287	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290100.014	LB362932.024		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	0.0373820670	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0.0391953254	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	0.0488665256	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0.0317119154	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	0.0085165138	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	0.0407276510	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	0	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	0.121	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	0.242	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	0	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4323122956	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4434035436	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4192072233	30	3

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290100.010	LB362932.014		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1260	mg/kg	0.1	<0.1	<0.1	200	0
			Total PCBs	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.47	0.46	30	3
SE290100.014	LB362932.024		Arochlor 1016	mg/kg	0.1	<0.1	0	200	0
			Arochlor 1221	mg/kg	0.1	<0.1	0	200	0
			Arochlor 1232	mg/kg	0.1	<0.1	0	200	0
			Arochlor 1242	mg/kg	0.1	<0.1	0	200	0
			Arochlor 1248	mg/kg	0.1	<0.1	0	200	0
			Arochlor 1254	mg/kg	0.1	<0.1	0	200	0
			Arochlor 1260	mg/kg	0.1	<0.1	0	200	0
			Total PCBs	mg/kg	0.1	<0.1	0	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.45	0.455	30	2

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290225.003	LB363024.014	pH	pH Units	0.1	5.6	5.6	32	1
SE290229.002	LB363024.023	pH	pH Units	0.1	6.4	6.4	32	0

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290100.010	LB363002.014	Arsenic, As	mg/kg	1	3	2	72	14
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	21	21	32	2
		Copper, Cu	mg/kg	0.5	<0.5	1.5	112	100
		Nickel, Ni	mg/kg	0.5	1.1	1.1	75	3
		Lead, Pb	mg/kg	1	9	12	40	34
		Zinc, Zn	mg/kg	2	17	22	40	23
SE290100.019	LB363002.022	Arsenic, As	mg/kg	1	4	4	55	5
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	2.6	2.7	49	3
		Copper, Cu	mg/kg	0.5	4.0	5.4	41	30
		Nickel, Ni	mg/kg	0.5	1.5	2.6	55	56 ③
		Lead, Pb	mg/kg	1	26	27	34	5
		Zinc, Zn	mg/kg	2	25	28	37	10

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Original	Duplicate	Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290100.010	LB362932.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE290100.014	LB362932.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290100.010	LB362993.014	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.4	7.9	50	18
			d8-toluene (Surrogate)	mg/kg	-	9.9	8.3	50	18
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.4	9.2	50	12
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE290100.019	LB362993.024	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.5	8.6	50	1
			d8-toluene (Surrogate)	mg/kg	-	8.8	8.9	50	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.2	9.3	50	2
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE290100.010	LB362993.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.4	7.9	50	18
			d8-toluene (Surrogate)	mg/kg	-	9.9	8.3	50	18
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.4	9.2	50	12
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE290100.019	LB362993.024		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.5	8.6	50	1
			d8-toluene (Surrogate)	mg/kg	-	8.8	8.9	50	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.2	9.3	50	2
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB363329.002	Exchangeable Sodium, Na	meq/100g	0.01	0.17	0.188	80 - 120	89
	Exchangeable Potassium, K	meq/100g	0.01	0.11	0.141	80 - 120	80
	Exchangeable Calcium, Ca	meq/100g	0.01	1.8	2.17	80 - 120	83
	Exchangeable Magnesium, Mg	meq/100g	0.02	1.3	1.53	80 - 120	85

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB363008.002	Mercury	mg/kg	0.05	0.21	0.2	80 - 120	103

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362932.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	104
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	98
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	101
		Dieldrin	mg/kg	0.1	0.2	0.2	60 - 140	107
		Endrin	mg/kg	0.1	0.2	0.2	60 - 140	95
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	92
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.47	0.5	40 - 130	93

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362932.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.0	2	60 - 140	100
		Diazinon (Dimpylate)	mg/kg	0.5	2.2	2	60 - 140	111
		Dichlorvos	mg/kg	0.5	1.8	2	60 - 140	92
		Ethion	mg/kg	0.2	2.1	2	60 - 140	107
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	91
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	88

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362932.002		Naphthalene	mg/kg	0.1	3.8	4	60 - 140	95
		Acenaphthylene	mg/kg	0.1	3.8	4	60 - 140	94
		Acenaphthene	mg/kg	0.1	3.8	4	60 - 140	96
		Phenanthrene	mg/kg	0.1	4.0	4	60 - 140	100
		Anthracene	mg/kg	0.1	3.9	4	60 - 140	99
		Fluoranthene	mg/kg	0.1	3.9	4	60 - 140	97
		Pyrene	mg/kg	0.1	3.9	4	60 - 140	97
		Benzo(a)pyrene	mg/kg	0.1	3.9	4	60 - 140	98
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	89
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	91
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	88

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362932.002		Arochlor 1260	mg/kg	0.1	0.4	0.4	60 - 140	99
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.47	0.5	40 - 130	93

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB363024.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB363002.002	Arsenic, As	mg/kg	1	320	318.22	80 - 120	102
	Cadmium, Cd	mg/kg	0.3	3.9	4.81	70 - 130	80
	Chromium, Cr	mg/kg	0.5	38	38.31	80 - 120	100
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	107
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	100
	Lead, Pb	mg/kg	1	90	89.9	80 - 120	100

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB363002.002		Zinc, Zn	mg/kg	2	270	273	80 - 120	98

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362932.002		TRH C10-C14	mg/kg	20	210	200	60 - 140	107
	TRH F Bands	TRH >C10-C16	mg/kg	25	210	200	60 - 140	107

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362993.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	2.0	2.2	60 - 140	93
		Toluene	mg/kg	0.1	2.0	2.2	60 - 140	92
		Ethylbenzene	mg/kg	0.1	2.0	2.2	60 - 140	90
		m/p-xylene	mg/kg	0.2	4.0	4.4	60 - 140	90
		o-xylene	mg/kg	0.1	2.0	2.2	60 - 140	89

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362993.002	TRH C6-C10	mg/kg	25	<25	35.2	60 - 140	69
	TRH C6-C9	mg/kg	20	22	30.8	60 - 140	73

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290100.001	LB363008.004	Mercury	mg/kg	0.05	0.30	0.14	0.2	78

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290100.001	LB362932.004	Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
		Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	-	-
		Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	114
		Heptachlor	mg/kg	0.1	0.3	<0.1	0.2	111
		Aldrin	mg/kg	0.1	0.2	<0.1	0.2	110
		Heptachlor epoxide	mg/kg	0.1	0.4	0.4	-	-
		Gamma Chlordane	mg/kg	0.1	0.5	0.6	-	-
		Alpha Chlordane	mg/kg	0.1	0.1	0.1	-	-
		Chlordane (alpha + gamma chlordane)	mg/kg	0.1	0.7	0.8	-	-
		Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
		Dieldrin	mg/kg	0.1	0.3	<0.1	0.2	110
		Endrin	mg/kg	0.1	0.2	<0.1	0.2	102
		Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	108
		Endrin ketone	mg/kg	0.1	<0.1	<0.1	-	-
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
		Mirex	mg/kg	0.1	<0.1	<0.1	-	-
		Total OC Pesticides	mg/kg	0.1	2.5	1.2	-	-
		Total OC VIC EPA IWRG621	mg/kg	0.1	2.5	1.2	-	-
		Total Other OCP VIC EPA IWRG621	mg/kg	0.1	1.8	1.2	-	-
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.45	0.47	-	91

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290100.001	LB362932.004	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
		Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.9	<0.2	2	95
		Diazinon (Dimpylate)	mg/kg	0.5	2.1	<0.5	2	105
		Dichlorvos	mg/kg	0.5	1.8	<0.5	2	92
		Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
		Ethion	mg/kg	0.2	2.1	<0.2	2	104
		Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
		Malathion	mg/kg	0.2	<0.2	<0.2	-	-
		Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
		Total OP Pesticides*	mg/kg	1.7	7.9	<1.7	-	-
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	-	88
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	85

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290100.001	LB362932.004	Naphthalene	mg/kg	0.1	3.7	<0.1	4	91
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Acenaphthylene	mg/kg	0.1	3.7	<0.1	4	91
		Acenaphthene	mg/kg	0.1	3.7	<0.1	4	93
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	3.9	<0.1	4	96
		Anthracene	mg/kg	0.1	3.7	<0.1	4	93
		Fluoranthene	mg/kg	0.1	3.9	0.3	4	89

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290100.001	LB362932.004		Pyrene	mg/kg	0.1	3.9	0.3	4	90
			Benzo(a)anthracene	mg/kg	0.1	0.1	0.2	-	-
			Chrysene	mg/kg	0.1	0.1	0.2	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	0.1	0.2	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	0.1	0.2	-	-
			Benzo(a)pyrene	mg/kg	0.1	3.9	0.2	4	91
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.1	0.2	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(ghi)perylene	mg/kg	0.1	0.1	0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	3.9	0.3	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	4.0	0.4	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	4.0	0.4	-	-
			Total PAH (18)	mg/kg	0.8	31	2.0	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	-	87
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	-	88
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	85

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290100.001	LB362932.004		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1254	mg/kg	0.1	0.5	0.6	-	-
			Arochlor 1260	mg/kg	0.1	0.5	<0.1	0.4	133
			Total PCBs	mg/kg	0.1	1.0	0.6	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.45	0.47	-	91

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290100.001	LB363002.004		Arsenic, As	mg/kg	1	47	5	50	83
			Cadmium, Cd	mg/kg	0.3	43	0.3	50	85
			Chromium, Cr	mg/kg	0.5	57	10	50	93
			Copper, Cu	mg/kg	0.5	67	24	50	87
			Nickel, Ni	mg/kg	0.5	52	7.6	50	89
			Lead, Pb	mg/kg	1	150	150	50	8 Ⓢ
			Zinc, Zn	mg/kg	2	160	100	50	110

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290100.001	LB362932.004		TRH C10-C14	mg/kg	20	230	<20	200	104
			TRH C15-C28	mg/kg	45	140	140	-	-
			TRH C29-C36	mg/kg	45	110	100	-	-
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	480	240	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	450	240	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	240	36	200	104
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	240	36	-	-
			TRH >C16-C34 (F3)	mg/kg	90	210	200	-	-
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290100.001	LB362993.004	Monocyclic Aromatic	Benzene	mg/kg	0.1	2.2	<0.1	2.2	102
			Toluene	mg/kg	0.1	2.2	<0.1	2.2	100
			Ethylbenzene	mg/kg	0.1	2.2	<0.1	2.2	99
			m/p-xylene	mg/kg	0.2	4.4	<0.2	4.4	99
			o-xylene	mg/kg	0.1	2.2	<0.1	2.2	98
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.3	8.2	-	83
			d8-toluene (Surrogate)	mg/kg	-	8.6	8.6	-	86
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.9	9.0	-	89

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290100.001	LB362993.004	Totals	Total BTEX*	mg/kg	0.6	13	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	6.5	<0.3	-	-

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE290100.001	LB362993.004		TRH C6-C10	mg/kg	25	34	<25	35.2	97
			TRH C6-C9	mg/kg	20	30	<20	30.8	97
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.3	8.2	-	83
			d8-toluene (Surrogate)	mg/kg	-	8.6	8.6	-	86
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.9	9.0	-	89
		VPH F	Benzene (F0)	mg/kg	0.1	2.2	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	-	-

MATRIX SPIKE DUPLICATES

SE290100 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
NA	Not Applicable
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

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Project	**E3403-2 Cammeray**
Order Number	**E3403-2**
Samples	15

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SGS Reference	**SE290100 R0**
Date Received	25 Sep 2025
Date Reported	02 Oct 2025

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

% Clay subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146. Report No: CE184499.

No respirable fibres detected in all soil samples using trace analysis technique.
Sample #1: Chrysotile and Crocidolite asbestos found in approx 3x2x2mm cement sheet fragment.
Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

RESULTS

Fibre Identification in soil — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Date Analysed	Fibre Identification	Est.%w/w*
SE290100.001	BH1 0.3-0.4	Soil	20g Sand, Soil, Rocks	23 Sep 2025	01 Oct 2025	Chrysotile & Crocidolite Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	>0.01
SE290100.002	BH2 0.4-0.5	Soil	69g Clay, Soil, Rocks	23 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE290100.003	BH3 1-1.1	Soil	63g Clay, Sand, Rocks	24 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE290100.004	BH4 0.1-0.2	Soil	40g Clay, Sand, Soil, Rocks	22 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE290100.005	BH5 0.2-0.3	Soil	92g Clay, Sand, Rocks	24 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE290100.006	BH6 0.1-0.2	Soil	37g Sand, Soil, Rocks	23 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE290100.008	BH7 0.2-0.3	Soil	49g Sand, Soil, Rocks	23 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE290100.009	BH8 0.2-0.3	Soil	50g Clay, Sand, Soil, Rocks	23 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE290100.010	BH8 0.5-0.6	Soil	30g Clay, Sand, Rocks	23 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE290100.011	BH9 0.1-0.2	Soil	36g Sand, Soil, Rocks, Plant Matter	24 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE290100.012	BH10 0.3-0.4	Soil	31g Sand, Soil, Rocks	24 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE290100.013	BH11 0.1-0.2	Soil	23g Sand, Soil, Rocks	24 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE290100.014	BH12 0.0-0.1	Soil	12g Sand, Soil, Rocks	24 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE290100.015	BH12 0.4-0.5	Soil	44g Sand, Soil, Rocks	24 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE290100.016	BH13 0.1-0.2	Soil	17g Sand, Soil, Rocks	24 Sep 2025	01 Oct 2025	No Asbestos Found at RL of 0.1g/kg	<0.01

METHOD SUMMARY

SE290100 R0

METHOD	METHODOLOGY SUMMARY
AN602/AS4964	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602/AS4964	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602/AS4964	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples , Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602/AS4964	The sample can be reported “no asbestos found at the reporting limit (RL) of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (a) no trace asbestos fibres have been detected (i.e. no ‘respirable ’ fibres): (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	NATA accreditation does not cover the performance of this service .
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.
			***	-	Indicates that both * and ** apply.

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.
Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy , including dispersion staining.
Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos -containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety .

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FOUNDATION EARTH SCIENCES

Chain of Custody Record

Client Details:	Foundation Earth Sciences PO Box 4405, East Gosford NSW 2250 email: ben@foundationes.com.au, d.gibbs@foundationes.com.au michael@foundationes.com.au, khy@foundationes.com.au ph: +61466 385 221	**Project Manager:**	Ben Buckley	**Project #:** E3403-2
		Sampled By:	DG	**Project Name:** Cammeray
Delivery Details:	SGS Laboratories Pty Ltd Unit 16, 33 Maddox Street, Alexandria NSW 2015 email: au.samplereceipt@sgs.com ph: +612 8594 0400	**Purchase Order #:**	N/A	**Quote #:**
		Page #:	1 of 1	**Turnaround:** Standard

#	Sample ID	Depth	Date Sampled	Matrix	Analytes																Sample Comments
					ph		CEC	%CLAY	Heavy Metals (8)	TRH	BTEXN	PAH	OPP			Asbestos ID	Asbestos NEPM W%/W%	TRH C6-C10 & BTEXN	OCP PCB	Combo Suites	
1	BH1	0.3-0.4	23/09/25	Soil					X	X	X	X	X			X			X	CL17+ASB	Keep
2	BH2	0.4-0.5	23/09/25	Soil					X	X	X	X				X			X	CL16+ASB	Keep
3	BH3	1-1.1	24/09/25	Soil					X	X	X	X				X			X	CL16+ASB	Keep
4	BH4	0.1-0.2	22/09/25	Soil					X	X	X	X				X			X	CL16+ASB	Keep
5	BH5	0.2-0.3	24/09/25	Soil					X	X	X	X				X			X	CL16+ASB	Keep
6	BH6	0.1-0.2	23/09/25	Soil	X		X	X	X	X	X	X				X			X	CL16+ASB	Keep
7	BH6	0.5-0.6	23/09/25	Soil	X		X	X	X	X	X	X							X	CL16	Keep
8	BH7	0.2-0.3	23/09/25	Soil					X	X	X	X	X			X			X	CL17+ASB	Keep
9	BH8	0.2-0.3	23/09/25	Soil					X	X	X	X				X			X	CL16+ASB	Keep
10	BH8	0.5-0.6	23/09/25	Soil					X	X	X	X				X			X	CL16+ASB	Keep
11	BH9	0.1-0.2	24/09/25	Soil					X	X	X	X				X			X	CL16+ASB	Keep
12	BH10	0.3-0.4	24/09/25	Soil					X	X	X	X				X			X	CL16+ASB	Keep
13	BH11	0.1-0.2	24/09/25	Soil					X	X	X	X				X			X	CL16+ASB	Keep
14	BH12	0.0-0.1	24/09/25	Soil					X	X	X	X	X			X			X	CL17+ASB	Keep
15	BH12	0.4-0.5	24/09/25	Soil					X	X	X	X				X			X	CL16+ASB	Keep
16	BH13	0.1-0.2	24/09/25	Soil					X	X	X	X				X			X	CL16+ASB	Keep
17/18 19	TS/TB	-	22/09/25	Soil														X			Keep
	D1	-	23/09/25	Soil					X	X	X	X							X	CL16	Keep

Special Directions and Comments:

Relinquished by	Daniel Gibbs	**Received By**	~~Abd~~ Kiastian Wei
Signature	DG	**Signature**	KW
Date	25.09.2025	**Date**	25/09/2025 5:35

SGS EHS Sydney COC

SE290100

source:Sydney_routine_coc_250925_165403.pdf page:1 DOC Ref:SE290100_COC

SAMPLE RECEIPT ADVICE

SE290100

CLIENT DETAILS

Contact	Ben Buckley
Client	FOUNDATION EARTH SCIENCES PTY LTD
Address	UNIT 119/14 LOYALTY ROAD NORTH ROCKS NSW 2151
Telephone	(Not specified)
Facsimile	(Not specified)
Email	ben@foundationes.com.au
Project	**E3403-2 Cammeray**
Order Number	**E3403-2**
Samples	19

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Thu 25/9/2025
Report Due	Thu 2/10/2025
SGS Reference	**SE290100**

SUBMISSION DETAILS

This is to confirm that 19 samples were received on Thursday 25/9/2025. Results are expected to be ready by COB Thursday 2/10/2025.
Please quote SGS reference SE290100 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	19 Soil	Date documentation received	25/9/2025
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	7.6°C	Turnaround time requested	Standard
Sample cooling method	Ice Bricks		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

% Clay subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146.

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SAMPLE RECEIPT ADVICE

SE290100

CLIENT DETAILS

Client FOUNDATION EARTH SCIENCES PTY LTD

Project E3403-2 Cammeray

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	pH in soil (1:5)	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH1 0.3-0.4	27	14	26	9	-	10	11	7
002	BH2 0.4-0.5	27	-	26	9	-	10	11	7
003	BH3 1-1.1	27	-	26	9	-	10	11	7
004	BH4 0.1-0.2	27	-	26	9	-	10	11	7
005	BH5 0.2-0.3	27	-	26	9	-	10	11	7
006	BH6 0.1-0.2	27	-	26	9	1	10	11	7
007	BH6 0.5-0.6	27	-	26	9	1	10	11	7
008	BH7 0.2-0.3	27	14	26	9	-	10	11	7
009	BH8 0.2-0.3	27	-	26	9	-	10	11	7
010	BH8 0.5-0.6	27	-	26	9	-	10	11	7
011	BH9 0.1-0.2	27	-	26	9	-	10	11	7
012	BH10 0.3-0.4	27	-	26	9	-	10	11	7
013	BH11 0.1-0.2	27	-	26	9	-	10	11	7
014	BH12 0.0-0.1	27	14	26	9	-	10	11	7
015	BH12 0.4-0.5	27	-	26	9	-	10	11	7
016	BH13 0.1-0.2	27	-	26	9	-	10	11	7
017	TS	-	-	-	-	-	-	11	-
018	TB	-	-	-	-	-	-	11	7
019	D1	27	-	26	9	-	10	11	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE290100

CLIENT DETAILS

Client FOUNDATION EARTH SCIENCES PTY LTD

Project E3403-2 Cammeray

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Fibre Identification in soil	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil/Waste
001	BH1 0.3-0.4	-	3	1	1	7
002	BH2 0.4-0.5	-	3	1	1	7
003	BH3 1-1.1	-	3	1	1	7
004	BH4 0.1-0.2	-	3	1	1	7
005	BH5 0.2-0.3	-	3	1	1	7
006	BH6 0.1-0.2	13	3	1	1	7
007	BH6 0.5-0.6	13	-	1	1	7
008	BH7 0.2-0.3	-	3	1	1	7
009	BH8 0.2-0.3	-	3	1	1	7
010	BH8 0.5-0.6	-	3	1	1	7
011	BH9 0.1-0.2	-	3	1	1	7
012	BH10 0.3-0.4	-	3	1	1	7
013	BH11 0.1-0.2	-	3	1	1	7
014	BH12 0.0-0.1	-	3	1	1	7
015	BH12 0.4-0.5	-	3	1	1	7
016	BH13 0.1-0.2	-	3	1	1	7
018	TB	-	-	-	1	-
019	D1	-	-	1	1	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE290100

CLIENT DETAILS

Client FOUNDATION EARTH SCIENCES PTY LTD

Project E3403-2 Cammeray

SUMMARY OF ANALYSIS

No.	Sample ID	Particle sizing of soils <75µm by hydrometer	Particle sizing of soils by sieving
006	BH6 0.1-0.2	1	2
007	BH6 0.5-0.6	1	2

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

APPENDIX I: FIELD RECORD FORMS

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TS 3403-2 Cammeray water testing

GW1 Peripump	C°	19.9	19.3	19	18.9	milky brown
	DO	7.85	7.0	6.8	6.3	high turbidity
	C	578	6.7	30.8	35.2	
	pH	6.65	6.63	6.63	6.53	
	ORP	37.7	55.2	50.1	49.1	Nil water after test Purged dry
GW82 Peripump SS1/D1	C°	18.8	18.7	18.7	18.5	milky brown
	DO	8.62	5.64	5.49	5.45	High turb
	C	7.9	39	52.4	49.9	
	pH	6.41	6.55	6.46	6.51	
	ORP	85.3	42.1	52.1	49.8	Nil water after test
GW3 Hand bailed	C°	19.1	18.7	18.5	18.4	milky
	DO	10.2	7.55	5.98	5.68	light brown
	C	9.1	32	43	48.2	brown
	pH	6.62	6.7	6.59	6.62	High turb
	ORP	71.3	62.1	50.8	49.7	Nil water after test

APPENDIX J: AERIAL PHOTOGRAPHS

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Historical Aerial Photographs

19-23 Rosalind Street,
Cammeray NSW

E3403-2

1943:



1955:



1965:



1986:



1994:



2005:



2014:



Current (SIX Maps):



APPENDIX K: SUMMARY TABLES

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Table K1

Sample Information				Heavy Metals (mg/kg)								TRH (mg/kg)						BTEX (mg/kg)					PAH (mg/kg)				OCP (mg/kg)									OPP (mg/kg)		
Label	Depth (m BGL)	Date	Soil Type	ARSENIC	CADMIUM	CHROMIUM	COPPER	LEAD	MERCURY	NICKEL	ZINC	F1 (C_6-C_{10}) [2]	F2 (>C_{10}-C_{16}) [3]	F1 (C_6-C_{10})	F2 (>C_{10}-C_{16})	F3 (C_{16}-C_{34})	F4 (C_{34}-C_{40})	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	NAPHTHALENE	BENZO(A)PYRENE	CARINOGENIC PAHs (as Bap TEQ)	TOTAL PAH	NAPHTHALENE	DDT + DDD + DDE	ALDRIN + DIELDRIN	CHLORDANE	ENDOSULFAN	ENDRIN	HEPTACHLOR	HCB	METHOXYCHLOR	DDT	CHLORPYIPHOS (OPP)	TOTAL PCB (mg/kg)	ASBESTOS ID (Presence / Absense)
Foundation Earth Sciences DSI 2025																																					
BH1	0.3-0.4	23/09/25	F - Sandy Clay	5	0.3	10	24	150	0.14	7.6	100	<25	36	<25	36	200	<120	<0.1	<0.1	<0.1	<0.3	<0.1	0.2	0.4	2.0	<0.1	<0.1	<0.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	0.6	Detected
BH2	0.4-0.5	23/09/25	F - Sandy Clay	3	<0.3	24	15	61	0.06	3.1	43	<25	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	<0.1	0.7	1.0	5.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	ND
BH3	1-1.1	24/09/25	F - Sandy Clay	3	<0.3	13	3.4	29	0.07	1.1	42	<25	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	<0.1	0.3	0.5	2.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	ND
BH4	0.1-0.2	22/09/25	F - Sandy Clay	48	0.6	14	11	100	9.0	2.9	95	<25	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	<0.1	0.3	0.5	2.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	ND
BH5	0.2-0.3	24/09/25	F - Sandy Clay	38	0.4	12	18	37	0.07	3.2	73	<25	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.3	<0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	ND
BH6	0.1-0.2	23/09/25	F - Silty Sandy Clay	15	0.9	10	36	60	0.06	5.6	160	<25	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.3	<0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	ND
BH6	0.5-0.6	23/09/25	N - Silty Sandy CLAY	4	<0.3	7.5	1.3	11	<0.05	0.7	5.1	<25	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.3	<0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-
BH7	0.2-0.3	23/09/25	F - Sandy Clay	4	<0.3	2.6	3.7	28	0.06	1.4	32	<25	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	<0.1	0.2	0.3	1.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	ND
BH8	0.2-0.3	23/09/25	F - Silty Clay	8	<0.3	15	23	76	0.28	2.2	160	<25	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.3	<0.8	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	ND
BH8	0.5-0.6	23/09/25	F - Silty Clay	3	<0.3	21	<0.5	9	0.06	1.1	17	<25	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.3	<0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	ND
BH9	0.1-0.2	24/09/25	F - Silty Sandy Clay	15	0.4	15	34	61	0.21	10	170	<25	40	<25	40	450	230	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.3	<0.8	<0.1	0.2	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	-	1.0	ND
BH10	0.3-0.4	24/09/25	F - Sandy Clay	4	<0.3	7.4	14	52	0.15	3.7	69	<25	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.3	<0.8	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	ND
BH11	0.1-0.2	24/09/25	F - Gravelly Clay	5	0.6	11	82	100	0.25	8.5	280	<25	<25	<25	<25	260	260	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.3	<0.8	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	ND
BH12	0.0-0.1	24/09/25	F - Sandy Clay	18	0.4	5.5	22	69	0.35	3.0	110	<25	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.3	<0.8	<0.1	<0.1	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	ND
BH12	0.4-0.5	24/09/25	N - Silty CLAY	3	<0.3	17	1.1	12	0.06	0.7	17	<25	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.3	<0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	ND
BH13	0.1-0.2	24/09/25	F - Sandy Clay	4	<0.3	3.8	5.7	43	0.09	1.9	36	<25	32	<25	32	100	<120	<0.1	<0.1	<0.1	<0.3	<0.1	0.2	0.3	1.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	ND
Statistical Analysis																																					
No of Observations																							14													14	
Min																							0.1													0.1	
Max																							0.7													1	
Mean																							0.193													0.2	
Standard Deviation																							0.164													0.266	
95% UCL (Chebyshev [Mean, Sd])																							0.384													0.51	
Limit of Resolution (LOR)				4	0.4	1	1	1	0.1	1	1	25	50	25	50	100	100	0.2	0.5	1	1	1	0.05	0.5	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
NEPM (2013) HIL B				**500**	**150**	**500**	**30,000**	**1,200**	**120**	**1,200**	**60,000**													**4**	**400**		**600**	**10**	**90**	**400**	**20**	**10**	**15**	**500**		**340**	**1**	
NEPM (2013) EIL & ESLs [1]				100																					170								180				
BH6 (0.1-0.2m) F - Silty Sandy Clay						410	260	1200		360	1100																										
BH6 (0.5-0.6m) N - SANDSTONE						410	60	1100		30	140																										
NEPM (2013) ESLs - (Fine Grain Soil - Clay / Silt) [1]												180	120			1,300	5,600	65	105	125	45		0.7														
NEPM (2013) ESLs - (Coarse Grain Soil - Sand) [1]												180	120			300	2,800	50	85	70	105		0.7														
NEPM (2013) HSL B (SAND)																																					
0 to < 1m												45	110					0.5	160	55	40	3															
Soil Saturation Concentration (Csat)												950	560					360	560	64	300	9															
NEPM (2013) HSL B (CLAY)																																					
0 to < 1m												50	280					0.7	480	NL	110	5															
1 to < 2m												90	NL					1	NL	NL	310	NL															
Soil Saturation Concentration (Csat)												850	560					430	630	68	330	10															
NEPM (2013) Management Limit (Fine Grain Soil)														800	1,000	3,500	10,000																			
NEPM (2013) Management Limit (Coarse Grain Soil)														700	1,000	2,500	10,000																			
NEPM (2013) HSL - Asbestos																																					
Asbestos ID																																					**Detected**

Notes

1	Urban
2	To obtain F1
3	To obtain F2
NL	Calculated HSL
ND	Not detected

Table K2

Sample Information		Heavy Metals								TRH		BTEX							PAH					
SAMPLE ID	Date	ARSENIC	CADMIUM	CHROMIUM	COPPER	LEAD	MERCURY	NICKEL	ZINC	F1 (C_6-C_{10}) [2]	F2 (>C_{10}-C_{16}) [3]	BENZENE	TOLUENE	ETHYL BENZENE	M/P-XYLENE	O-XYLENE	NAPHTHALENE	TOTAL-XYLENE	BENZO(A)PYRENE	ANTHRACENE	PHENANTHRENE	FLUORANTHENE	NAPHTHALENE
Foundation Earth Sciences DSI 2025																								
BH1 / GW1	03.10.2025	<1	<0.1	2	<1	<1	<0.1	10	22	<50	<60	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<1.5	<0.01	<0.01	<0.01	<0.01	<0.02
BH3 / GW2	03.10.2025	<1	<0.1	2	<1	<1	<0.1	9	23	<50	<60	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<1.5	<0.01	<0.01	<0.01	<0.01	<0.02
BH6 / GW3	03.10.2025	3	<0.1	6	7	<1	<0.1	13	55	<50	<60	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<1.5	<0.1	<0.1	<0.1	<0.1	<0.1
Limit of Resolution (LOR)		1	0.1	1	1	1	0.1	1	1	50	60	0.5	0.5	0.5	1	0.5	0.5	-	0.1	0.1	0.1	0.1	0.1
GILs - NEPM (2013) - Groundwater Investigation Levels *Marine Water* [2]		-	0.7	4.4	1.3	4.4	0.1	7	15			500	-	-	-	-	-	-	0.1 [5]	0.01 [5]	0.6 [5]	1 [5]	50
Groundwater HSLs - NEPM (2013) HSL B (SAND) 2m to <4m										1,000	1,000	800	NL	NL	-	-	NL	NL					
Solubility Limit										9,000	3,000	59,000	61,000	3,900	-	-	170	21,000					

Notes

1	All units are in ug/L
2	Investigation Levels apply to typical slightly-moderately disturbed systems
3	QSAR derived, statistical distribution method used, 95% trigger values applied as per ANZECC 2000
4	Investigation levels are taken from the health values of the Australian Drinking Water Guidelines NHMRC 2011
NL	Non Limiting

Table K3

Sample Information		ALKANES								ALKENES					BENZENES											Other VOC	
SAMPLE ID	GME DATE	TETRACHLOROMETHANE (CARBON TETRACHLORID	TRICHLOROMETHANE (CHLOROFORM)	BROMODICHLOROMETHANE	TRIHALOMETHANES (TOTAL)	1, 2-DICHLOROETHANE	CYCLOHEXANE	DICHLOROMETHANE (METHYLENE CHLORIDE)	1,1,2-TRICHLOROETHANE	CHLOROETHENE (VINYL CHLORIDE)	TRICHLOROETHENE	CIS-1,2-DICHLOROETHENE	1,1-DICHLOROETHENE	TETRACHLOROETHENE (PCE PERCHLOROETHENE)	CHLOROBENZENE	1,2-DICHLOROBENZENE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE	1,2,3-TRICHLOROBENZENE	1,2,4-TRICHLOROBENZENE	ISOPROPYL BENZENE (CUMENE)	SEC-BUTYL BENZENE	1,3,5-TRIMETHYL BENZENE	N-PROPYL BENZENE	N-BUTYL BENZENE	1.2.4 - TRIMETHYLBENZENE	4-ISOPROPYL TOULENE	HEXACHLOROBUTADIENE
Foundation Earth Sciences DSI 2025																												
BH1 / GW1	03.10.2025	<0.5	4.9	<0.5	4.9	<0.5	-	<5	<0.5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH3 / GW2	03.10.2025	<0.5	4.7	<0.5	4.7	<0.5	-	<5	<0.5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH6 / GW3	03.10.2025	<0.5	2.8	<0.5	2.8	<0.5	-	<5	<0.5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Limit of Resolution (LOR)		0.1	1	0.5	-	0.5	-	5	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
GILs - NEPM (2013) - Groundwater Investigation Levels																												
Marine Water [2]									1,900										60		20							
Marine Low reliability			370								330.00		700	70														

Notes

1	All units are in ug/L
2	Investigation levels apply to typical slightly-moderately disturbed systems
4	Investigation levels are taken from the health values of the Australian Drinking Water Guidelines NHMRC 2011
-	NV - no derived value
-	" - " Not Tested
a:	QSAR derived, statistical distribution method used, 99% trigger value applied as per ANZECC guidelines for slightly-moderately disturbed systems
b:	QSAR derived, statistical distribution method used, 95% trigger value applied as per ANZECC guidelines for slightly-moderately disturbed systems
c:	US EPA Region 9 RSL (MCLs) utilised in absence of criteria from NEPM 2013. MCLs are legally enforceable USEPA drinking water standards
d:	US EPA Region 9 RSL (Tapwater) utilised in absence of criteria from NEPM 2013. Non cancer

Table K4

	Heavy Metals (mg/kg)								TRH (mg/kg)					BTEX (mg/kg)				PAH (mg/kg)		OCP (mg/kg)		OPP	PCB (mg/kg)	
	ARSENIC	CADMIUM	CHROMIUM	COPPER	LEAD	MERCURY	NICKEL	ZINC	C6-C9	C10-C14	C15-C28	C29-C36	C10-C36 [a]	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	BENZO(a)PYRENE	TOTAL PAH	Other OCPs	TOTAL ENDOSULFAN[11]	CHLORPYRIPHOS (OPP)	TOTAL PCB	ASBESTOS ID (Presence / Absence)
NSW EPA Waste Criteria (No Leachates)																								
CT1	100	20	100	-	100	4	40	-	NA	-	-	-	NA	10	288	600	1000	0.8	200	<50	60	4	<50	Detected
CT2	400	80	400	-	400	16	160	-	NA	-	-	-	NA	40	1152	2400	4000	3.2	800	<50	240	16	<50	
NSW EPA Waste Criteria (With Leachates)																								
SCC1	500	100	1900	-	1500	50	1050	-	650	-	-	-	10000	18	518	1080	1800	10	200	Total = <50**	108	7.5	<50**	
SCC2	2000	400	7600	-	6000	200	4200	-	2600	-	-	-	40000	72	2073	4320	7200	23	800	Total = <50**	432	30	<50**	
Limit of Resolution (LOR)	4	0.4	5	5	5	0.10	5	5	25	50	100	100	NA	0.2	0.5	1	3	0.05	0.05	0.1	0.1	0.1	0.1	
Sample ID **Date Sampled** **Depth**																								
FES DSI 2025																								
BH1 23/09/25 0.3-0.4	5	0.3	10.0	24	150	0.14	7.6	100	<20	<20	140	100	240	<0.1	<0.1	<0.1	<0.3	0.2	2	0.8	<0.1	<0.2	0.6	**Detected**
BH2 23/09/25 0.4-0.5	3	<0.3	24	15	61	0.06	3.1	43	<20	<20	<45	62	<110	<0.1	<0.1	<0.1	<0.3	0.7	5.9	<0.1	<0.1	-	<0.1	ND
BH3 24/09/25 1-1.1	3	<0.3	13.0	3	29	0.07	1.1	42	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.3	0.3	2.8	<0.1	<0.1	-	<0.1	ND
BH4 22/09/25 0.1-0.2	48	0.6	14	11.0	100	9	2.9	95.0	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.3	0.3	2.7	<0.1	<0.1	-	<0.1	ND
BH5 24/09/25 0.2-0.3	38	0.4	12.0	18.0	37	0.07	3.2	73	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.3	<0.1	<0.8	<0.1	<0.1	-	<0.1	ND
BH6 23/09/25 0.1-0.2	15	0.9	10.0	36.0	60	0.06	5.6	160	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.3	<0.1	<0.8	<0.1	<0.1	-	<0.1	ND
BH7 23/09/25 0.2-0.3	4	<0.3	2.6	3.7	28	0.06	1.4	32	<20	<20	<45	52	<110	<0.1	<0.1	<0.1	<0.3	0.2	1.3	<0.1	<0.1	<0.2	<0.1	ND
BH8 23/09/25 0.2-0.3	8	<0.3	15	23.0	76	0.28	2.2	160	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.3	<0.1	<0.8	0.4	<0.1	-	<0.1	ND
BH8 23/09/25 0.5-0.6	3	<0.3	21.0	<0.5	9	0.06	1.1	17	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.3	<0.1	<0.8	<0.1	<0.1	-	<0.1	ND
BH9 24/09/25 0.1-0.2	15	0.4	15	34	61	0.21	10.0	170	<20	<20	230	330	560	<0.1	<0.1	<0.1	<0.3	<0.1	<0.8	0.5	<0.1	-	1	ND
BH10 24/09/25 0.3-0.4	4	<0.3	7	14	52	0.15	3.7	69	<20	<20	<45	74	<110	<0.1	<0.1	<0.1	<0.3	<0.1	<0.8	0.2	<0.1	-	<0.1	ND
BH11 24/09/25 0.1-0.2	5	0.6	11	82	100	0.25	8.5	280	<20	<20	84	260	350	<0.1	<0.1	<0.1	<0.3	<0.1	<0.8	0.2	<0.1	-	<0.1	ND
BH12 24/09/25 0.0-0.1	18	0.4	6	22	69	0.35	3.0	110	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.3	<0.1	<0.8	0.1	<0.1	<0.2	<0.1	ND
BH13 24/09/25 0.1-0.2	4	<0.3	4	6	43	0.09	1.9	36	<20	<20	72	96	170	<0.1	<0.1	<0.1	<0.3	0.2	1.2	<0.1	<0.1	-	<0.1	ND

Notes

1 CT1, CT2
2 SCC1,
3 Concent
4 Concent
5 Concent
6 Concent
7 Concentrations in YELLOW indicate the presence of Asbestos
8 NA = Not Applicable
9 " - " Not Tested
10 *** Indicates Retest Result
11 Total Endosulfan = Endosulfan I, Endosulfan II and Endosulfan Sulphate

APPENDIX L: STATISTICAL CALCULATION

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1	**UCL Statistics for Uncensored Full Data Sets**											
2												
3	User Selected Options											
4	Date/Time of Computation	15/10/2025 1:09:23 PM										
5	From File	WorkSheet.xls										
6	Full Precision	OFF										
7	Confidence Coefficient	95%										
8	Number of Bootstrap Operations	2000										
9												
10												
11	**Benzo(a)pyrene**											
12												
13	**General Statistics**											
14	Total Number of Observations		14			Number of Distinct Observations			4			
15						Number of Missing Observations			0			
16	Minimum		0.1			Mean			0.193			
17	Maximum		0.7			Median			0.1			
18	SD		0.164			Std. Error of Mean			0.0438			
19	Coefficient of Variation		0.85			Skewness			2.578			
20												
21	**Normal GOF Test**											
22	Shapiro Wilk Test Statistic		0.628			**Shapiro Wilk GOF Test**						
23	5% Shapiro Wilk Critical Value		0.874			Data Not Normal at 5% Significance Level						
24	Lilliefors Test Statistic		0.286			**Lilliefors GOF Test**						
25	5% Lilliefors Critical Value		0.237			Data Not Normal at 5% Significance Level						
26	**Data Not Normal at 5% Significance Level**											
27												
28	**Assuming Normal Distribution**											
29	**95% Normal UCL**					**95% UCLs (Adjusted for Skewness)**						
30	95% Student's-t UCL		0.27			95% Adjusted-CLT UCL (Chen-1995)			0.297			
31						95% Modified-t UCL (Johnson-1978)			0.275			
32												
33	**Gamma GOF Test**											
34	A-D Test Statistic		1.586			**Anderson-Darling Gamma GOF Test**						
35	5% A-D Critical Value		0.744			Data Not Gamma Distributed at 5% Significance Level						
36	K-S Test Statistic		0.335			**Kolmogrov-Smirnoff Gamma GOF Test**						
37	5% K-S Critical Value		0.231			Data Not Gamma Distributed at 5% Significance Level						
38	**Data Not Gamma Distributed at 5% Significance Level**											
39												
40	**Gamma Statistics**											
41	k hat (MLE)		2.509			k star (bias corrected MLE)			2.019			
42	Theta hat (MLE)		0.0769			Theta star (bias corrected MLE)			0.0955			
43	nu hat (MLE)		70.26			nu star (bias corrected)			56.53			
44	MLE Mean (bias corrected)		0.193			MLE Sd (bias corrected)			0.136			
45						Approximate Chi Square Value (0.05)			40.25			
46	Adjusted Level of Significance		0.0312			Adjusted Chi Square Value			38.44			
47												
48	**Assuming Gamma Distribution**											
49	95% Approximate Gamma UCL (use when n>=50))		0.271			95% Adjusted Gamma UCL (use when n<50)			0.284			
50												
51	**Lognormal GOF Test**											
52	Shapiro Wilk Test Statistic		0.754			**Shapiro Wilk Lognormal GOF Test**						
53	5% Shapiro Wilk Critical Value		0.874			Data Not Lognormal at 5% Significance Level						
54	Lilliefors Test Statistic		0.337			**Lilliefors Lognormal GOF Test**						

55	5% Lilliefors Critical Value				0.237	Data Not Lognormal at 5% Significance Level						
56	**Data Not Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59	Minimum of Logged Data				-2.303	Mean of logged Data						-1.858
60	Maximum of Logged Data				-0.357	SD of logged Data						0.612
61												
62	**Assuming Lognormal Distribution**											
63	95% H-UCL				0.275	90% Chebyshev (MVUE) UCL						0.28
64	95% Chebyshev (MVUE) UCL				0.323	97.5% Chebyshev (MVUE) UCL						0.382
65	99% Chebyshev (MVUE) UCL				0.499							
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data do not follow a Discernible Distribution (0.05)**											
69												
70	**Nonparametric Distribution Free UCLs**											
71	95% CLT UCL				0.265	95% Jackknife UCL						0.27
72	95% Standard Bootstrap UCL				N/A	95% Bootstrap-t UCL						N/A
73	95% Hall's Bootstrap UCL				N/A	95% Percentile Bootstrap UCL						N/A
74	95% BCA Bootstrap UCL				N/A							
75	90% Chebyshev(Mean, Sd) UCL				0.324	95% Chebyshev(Mean, Sd) UCL						0.384
76	97.5% Chebyshev(Mean, Sd) UCL				0.466	99% Chebyshev(Mean, Sd) UCL						0.629
77												
78	**Suggested UCL to Use**											
79	95% Chebyshev (Mean, Sd) UCL				0.384							
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
83	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
84	For additional insight the user may want to consult a statistician.											
85												

1	**UCL Statistics for Uncensored Full Data Sets**											
2												
3	User Selected Options											
4	Date/Time of Computation	15/10/2025 1:10:49 PM										
5	From File	WorkSheet.xls										
6	Full Precision	OFF										
7	Confidence Coefficient	95%										
8	Number of Bootstrap Operations	2000										
9												
10												
11	**PCB**											
12												
13	**General Statistics**											
14	Total Number of Observations			14			Number of Distinct Observations				3	
15							Number of Missing Observations				0	
16	Minimum			0.1			Mean				0.2	
17	Maximum			1			Median				0.1	
18	SD			0.266			Std. Error of Mean				0.0711	
19	Coefficient of Variation			1.33			Skewness				2.689	
20												
21	**Normal GOF Test**											
22	Shapiro Wilk Test Statistic			0.443			**Shapiro Wilk GOF Test**					
23	5% Shapiro Wilk Critical Value			0.874			Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic			0.504			**Lilliefors GOF Test**					
25	5% Lilliefors Critical Value			0.237			Data Not Normal at 5% Significance Level					
26	**Data Not Normal at 5% Significance Level**											
27												
28	**Assuming Normal Distribution**											
29	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
30	95% Student's-t UCL			0.326			95% Adjusted-CLT UCL (Chen-1995)				0.372	
31							95% Modified-t UCL (Johnson-1978)				0.334	
32												
33	**Gamma GOF Test**											
34	A-D Test Statistic			4.103			**Anderson-Darling Gamma GOF Test**					
35	5% A-D Critical Value			0.753			Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic			0.525			**Kolmogrov-Smirnoff Gamma GOF Test**					
37	5% K-S Critical Value			0.233			Data Not Gamma Distributed at 5% Significance Level					
38	**Data Not Gamma Distributed at 5% Significance Level**											
39												
40	**Gamma Statistics**											
41	k hat (MLE)			1.391			k star (bias corrected MLE)				1.141	
42	Theta hat (MLE)			0.144			Theta star (bias corrected MLE)				0.175	
43	nu hat (MLE)			38.95			nu star (bias corrected)				31.93	
44	MLE Mean (bias corrected)			0.2			MLE Sd (bias corrected)				0.187	
45							Approximate Chi Square Value (0.05)				20.02	
46	Adjusted Level of Significance			0.0312			Adjusted Chi Square Value				18.78	
47												
48	**Assuming Gamma Distribution**											
49	95% Approximate Gamma UCL (use when n>=50))			0.319			95% Adjusted Gamma UCL (use when n<50)				0.34	
50												
51	**Lognormal GOF Test**											
52	Shapiro Wilk Test Statistic			0.445			**Shapiro Wilk Lognormal GOF Test**					
53	5% Shapiro Wilk Critical Value			0.874			Data Not Lognormal at 5% Significance Level					
54	Lilliefors Test Statistic			0.509			**Lilliefors Lognormal GOF Test**					

55	5% Lilliefors Critical Value				0.237	Data Not Lognormal at 5% Significance Level						
56	**Data Not Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59	Minimum of Logged Data				-2.303	Mean of logged Data						-2.01
60	Maximum of Logged Data				0	SD of logged Data						0.75
61												
62	**Assuming Lognormal Distribution**											
63	95% H-UCL				0.293	90% Chebyshev (MVUE) UCL						0.283
64	95% Chebyshev (MVUE) UCL				0.333	97.5% Chebyshev (MVUE) UCL						0.402
65	99% Chebyshev (MVUE) UCL				0.538							
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data do not follow a Discernible Distribution (0.05)**											
69												
70	**Nonparametric Distribution Free UCLs**											
71	95% CLT UCL				0.317	95% Jackknife UCL						0.326
72	95% Standard Bootstrap UCL				N/A	95% Bootstrap-t UCL						N/A
73	95% Hall's Bootstrap UCL				N/A	95% Percentile Bootstrap UCL						N/A
74	95% BCA Bootstrap UCL				N/A							
75	90% Chebyshev(Mean, Sd) UCL				0.413	95% Chebyshev(Mean, Sd) UCL						0.51
76	97.5% Chebyshev(Mean, Sd) UCL				0.644	99% Chebyshev(Mean, Sd) UCL						0.907
77												
78	**Suggested UCL to Use**											
79	95% Chebyshev (Mean, Sd) UCL				0.51							
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
83	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
84	For additional insight the user may want to consult a statistician.											
85												

APPENDIX M: CALIBRATION CERTIFICATE

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airmet

Air-Met Scientific Pty Ltd
1300 137 067

Multi Parameter Water Meter

Instrument YSI Quatro Pro Plus
Serial No. 10H100319

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. pH 7.00		7.00		426181	6.97
2. pH 4.00		4.00		429462	3.95
3. ORP (mV)		230.92		A426086/B435258	230.4
4. EC (us/cm)		2760		433489	2748
5. D.O (%)		0.00%		412773	0.0%
6. Temp (°C)		21.6		MultiTherm	21.3

Calibrated by: Miriam Poyitt

Calibration date: 29/01/2025

Next calibration due: 28/02/2025

APPENDIX N: BOM

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Monthly Rainfall (millimetres)

SYDNEY (OBSERVATORY HILL)

Station Number: 066214 · State: NSW · Opened: 2017 · Status: Open · Latitude: 33.86°S · Longitude: 151.20°E · Elevation: 43 m

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2017											*67.8*	*49.2*	
2018	*41.2*	*118.0*	*110.2*	*24.2*	*23.2*	*173.4*	*11.2*	*8.6*	*49.8*	*171.4*	*171.6*	*97.6*	*1000.4*
2019	*55.8*	*95.0*	*240.8*	*12.4*	*15.6*	*182.4*	*49.2*	*71.2*		*35.4*	*29.8*	*1.8*	
2020	*79.4*	*434.4*	*181.4*	*29.6*	*138.2*	*80.2*	*209.2*	*79.4*		*108.4*	*69.0*	*119.0*	
2021	*97.8*	*120.6*	*417.4*	*15.4*	*66.6*	*80.4*	38.4	*81.4*	*47.8*	*54.6*	*137.0*	132.8	*1290.2*
2022	*166.2*	356.0	*554.0*	*267.2*	*187.2*	16.8	*404.0*	*59.2*	*90.2*	*295.4*	55.6	*78.2*	*2530.0*
2023	191.4		*54.0*	178.8	61.6	*17.8*	*21.0*	76.6	*31.0*	39.0	*120.0*	*98.2*	
2024	129.8		*52.4*		219.0	368.4	*71.6*	45.2	62.2	55.4	100.2	60.6	
2025	*187.4*	74.6	*163.6*	*166.4*	*211.6*	18.6	*159.0*	*389.6*	*178.6*				

Quality control: 12.3 Done & acceptable, *12.3* Not completed or unknown

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Monthly Rainfall (millimetres)

SYDNEY (OBSERVATORY HILL)

Station Number: 066214 · State: NSW · Opened: 2017 · Status: Open · Latitude: 33.86°S · Longitude: 151.20°E · Elevation: 43 m

Statistics for this station calculated over all years of data

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Lowest	41.2	74.6	52.4	12.4	15.6	16.8	11.2	8.6	31.0	35.4	29.8	1.8	1000.4
Highest	191.4	434.4	554.0	267.2	219.0	368.4	404.0	389.6	178.6	295.4	171.6	132.8	2530.0

1) Calculation of statistics

Summary statistics, other than the Highest and Lowest values, are only calculated if there are at least 20 years of data available.

2) Gaps and missing data

Gaps may be caused by a damaged instrument, a temporary change to the site operation, or due to the absence or illness of an observer.

3) Further information

http://www.bom.gov.au/climate/cdo/about/about-rain-data.shtml.

Product code: IDCJAC0001 reference: 0123038510 Created on Fri 10 Oct 2025 10:25:53 AM AEDT

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APPENDIX O: CONSULTANTS DECLARATION FORM

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Consultant Declaration Form

CONSULTANT DECLARATION

PROJECT DETAILS	
PROJECT NAME	
Application number	SSD-96505456
Address of subject land	19-23 Rosalind Street, Cammeray
Lot / DP	SP4657, SP5218 and SP16181
APPLICANT DETAILS	
Applicant name	Perifa Rosalind Development Pty Ltd
Applicant address	Level 7/111 Elizabeth Street, Sydney
REPORT DETAILS	
Name of report this declaration relates	Detailed Site Investigation
Report reference no.	E3403
Report date	29.01.2026
Company name (inc. ABN / ACN)	86 635 577 641
Author name	Ben Buckley
Author qualifications	**B. Env Sc., BSc (Forensics)**
Author address	PO Box 4405 EAST GOSFORD NSW 2250 AUSTRALIA
DECLARATION BY CONSULTANT	
Name	Ben Buckley
Registration no.	1795
Organisation registered with	CENVP SC
Declaration	The undersigned declares that DSI: • has been prepared in accordance with the following policy, guidelines, or legislative requirements: - NSW EPA Consultants Reporting on Contaminated Land • contains all available information relevant to the environmental assessment of the development, activity or infrastructure to which the DSI relates; • does not contain information that is false or misleading; • identifies and addresses the relevant Planning Secretary's environmental assessment requirements (SEARs) for the project; • identifies and addresses the relevant statutory requirements for the project, including any relevant matters for consideration in environmental planning instruments to which the DSI relates; • contains a consolidated summary of the proposed or necessary mitigation measures
Signature	