

THE TRUSTEE FOR OURIMBAH DEVELOPMENTS TRUST



Preliminary Site Investigation

Residential Flat Building with Infill Affordable Housing at 40-56
Ourimbah Road, Mosman NSW
SSD number: SSD-119133490

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Revision	Details	Date	Amended By
Draft	For comments	27 May 2026	-
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I, Li Wei, confirm this report (Titled: Preliminary Site Investigation; Residential Flat Building with Infill Affordable Housing at 40-56 Ourimbah Road, Mosman NSW) addresses the requirement of SEAR No. SSD-119133490 and relevant State and local legislation, policies, and guidelines including (as listed in **Section 1.5**). I further confirm that none of the information contained in this preliminary site investigation report is false or misleading.



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Executive Summary

EI Australia (EI) was engaged by The Trustee for Ourimbah Developments Trust ('the client') to conduct a preliminary site investigation (PSI) of the property located at 40-56 Ourimbah Road, Mosman NSW ('the site').

The site is located approximately 6.4km north-east of the Sydney central business district (CBD), within the local government area (LGA) of Mosman Municipal Council. It covers an area of approximately 2,527.7m² and comprises nine cadastral allotments, identified as:

- Lots 1 & 2 in Deposited Plan (DP) 512796 (40-42 Ourimbah Road, Mosman);
- Lots A, B, C & D in DP 107522 (44-50 Ourimbah Road, Mosman);
- Lot 3 of Section 2 in DP 2864 (52 Ourimbah Road, Mosman); and
- Lots 21 & 22 in DP 621690 (54-56 Ourimbah Road, Mosman).

At the time of our investigation, the site comprised five individual properties with four of the properties occupied by a one or two-storey residential duplex or a house. No 52 Ourimbah Road was occupied by a two level mixed use commercial and residential unit building over a single level basement car park.

The site was proposed for redevelopment and this PSI was completed in support of a State Significant Development Application (SSDA) to NSW Department of Planning, Housing and Infrastructure. The aim was to appraise the environmental (potential contamination) condition of the site. It enables the developer to meet obligations under the *Contaminated Land Management Act 1997* and *State Environmental Planning Policy (Resilience and Hazards) 2021*.

This PSI accompanies an Environmental Impact Statement (EIS) pursuant to Part 8 of the *Environmental Planning and Assessment Regulation 2021 (EP&A Regulation)* and the *State Significant Development Guidelines*, in support of a SSDA, reference SSD-119133490.

Based on the supplied plans, the proposed development involves the demolition of the existing structures, followed by the construction of a part 8-storey part 9-storey residential apartment building overlying a two- to three-level basement.

Key Findings

- Site inspection was conducted on 15 April 2026 and was limited to accessible external areas only. The site was a rectangular shaped block of land, occupied by residential and commercial buildings. At the time of inspection, the site was occupied and operational. Current commercial activities on the site are limited to office and studio uses, comprising an interior design business (Tempo Interiors) and a yoga studio (Our Yoga Place) at 52 Ourimbah Road, and a commercial office (Hampton Architecture) at 54 Ourimbah Road.
- No indication of gross contamination was detected during the inspection. There was no evidence of underground storage tanks (USTs) on the site. No above-ground storage tanks (ASTs) were present.
- The history review indicated that the site has been used for residential and commercial purposes since at least 1930. Most of the current building structures were constructed prior to 1930 and have remained largely unchanged, with the exception of the commercial building at 52 Ourimbah Road, which was reconfigured into two separate structures in the 1980s.
- The surrounding area was predominantly occupied by low-density residential properties. Local commercial businesses were mainly located 250-400m south to south-east of the site along Military Road and Spit Road. Former dry-cleaning businesses were identified immediately to the west and approximately 15 m west of the site.

- The site and surrounding lands within close proximity ($\leq 250\text{m}$ radius) were free of statutory notices and licensing agreements issued under the *Contaminated Land Management Act 1997* and *Protection of the Environment Operations Act 1997*. The site and surrounding lands were not included on the *List of NSW Contaminated Sites Notified to the EPA*.
- The subsurface conditions of the site were expected to be a layer of shallow silty / gravelly sand filling (up to 1.0 m), overlying natural silty / sandy clay and sandstone bedrock (to the investigation depth of 15.45m).
- The potential risk of encountering acid sulfate soil at the site is considered to be nil, and no further assessment or management measures are considered warranted.
- The local groundwater flow direction was inferred to be north-westerly, towards Quakers Hat Bay.
- The conceptual site model (CSM) identified there was a low to moderate risk for contamination to exist on the site, mainly associated with importation of fill materials, hazardous building materials, pesticides use, leakage from vehicles and off-site migration of contaminants from neighbouring properties (i.e. service station and dry cleaner).
- A groundwater quality assessment was conducted as part of this PSI, comprising one round of groundwater monitoring and sampling from three monitoring wells (BH1M, BH3M and BH4M). Based on the findings of this assessment, no evidence of significant groundwater contamination was identified beneath the site. Accordingly, further groundwater assessment or remediation is not considered warranted for the proposed development. More details are presented in a letter report attached in **Appendix F**.
- Under the proposed development, bulk excavation of majority of site soils would be performed in order to construct the two- to three-level basement (covering the majority of the available area). This would result in the removal of existing site infrastructure, fill soils, and potential on-site contaminant sources within the basement construction removing this concern for the development.

Based on the findings of this PSI, and with consideration of EI's *Statement of Limitations (Section 7)*, it was concluded that the overall potential for contamination to exist on the site was low. In accordance with *State Environmental Planning Policy (Resilience and Hazards) 2021*, EI considers that the site is suitable for the proposed residential development, subject to the implementation of recommendations provided in **Section 6**.

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1. Introduction

1.1. Background and Purpose

EI Australia (EI) was engaged by The Trustee for Ourimbah Developments Trust ('the client') to conduct a preliminary site investigation (PSI) of the property located at 40-56 Ourimbah Road, Mosman NSW ('the site').

The site is located approximately 6.4km north-east of the Sydney central business district (CBD), within the local government area (LGA) of Mosman Municipal Council (**Figure 1, Appendix A**). It covers an area of approximately 2,527.7m² (**Appendix B**) and comprises nine cadastral allotments, identified as:

- Lots 1 & 2 in Deposited Plan (DP) 512796 (40-42 Ourimbah Road, Mosman);
- Lots A, B, C & D in DP 107522 (44-50 Ourimbah Road, Mosman);
- Lot 3 of Section 2 in DP 2864 (52 Ourimbah Road, Mosman); and
- Lots 21 & 22 in DP 621690 (54-56 Ourimbah Road, Mosman).

At the time of our investigation, the site comprised five individual properties with four of the properties occupied by a one or two-storey residential duplex or a house. No 52 Ourimbah Road was occupied by a two level mixed use commercial and residential unit building over a single level basement car park.

The site was proposed for redevelopment and this PSI was completed in support of a State Significant Development Application (SSDA) to NSW Department of Planning, Housing and Infrastructure. The aim was to appraise the environmental (potential contamination) condition of the site. It enables the developer to meet obligations under the *Contaminated Land Management Act 1997* and *State Environmental Planning Policy (Resilience and Hazards) 2021*.

This PSI accompanies an Environmental Impact Statement (EIS) pursuant to Part 8 of the *Environmental Planning and Assessment Regulation 2021 (EP&A Regulation)* and the *State Significant Development Guidelines*, in support of a SSDA, reference SSD-119133490.

The report addresses the Secretary's Environmental Assessment Requirements (SEARs) issued for the project, notably:

SEARs Requirement	Section of Report where response is provided
13. 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.	Sections 3, 4, 5 and 6

Note that a geotechnical investigation (Ref. E27082.G03) was completed concurrently with this PSI and the corresponding report should be read in conjunction with this report.

1.2. Proposed Development

Based on the supplied plans (**Appendix B**), the proposal seeks consent for a new residential flat building (RFB) development with in-fill affordable housing. The proposal includes:

- Demolition of existing development on the site and associated ancillary structures.

- Construction of a part 8-storey part 9-storey RFB comprising 63 residential apartments including 15% affordable housing dwellings, to be managed by a registered Community Housing Provider.
- Provision of communal open space and landscaped areas.
- Excavation for 2 basement levels with car parking and associated services.
- All associated works including site preparation, earthworks, drainage, infrastructure and removal of existing vegetation where required to facilitate the development.

The proposal seeks to utilise the low and mid-rise Housing and in-fill affordable Housing provisions of the Housing SEPP by providing affordable housing in compliance with the requirements of the EPI.

1.3. Project Objective

The objectives of this PSI were to:

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

1.4. Scope of Works

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

Desktop Study

- A review of relevant geological and soil landscape maps for the project area;
- A search for registered groundwater bore records within close vicinity of the site; A review of site history, based on land title records and a set of aerial photographs (dating back to 1930);
- A search of property files archived by Mosman Municipal Council;
- Searches of public registers maintained by the NSW Environment Protection Authority (NSW EPA) for statutory notices and licensing agreements issued under the *Contaminated Land Management Act 1997* and *Protection of the Environment Operations Act 1997*;
- A search of the *List of NSW Contaminated Sites Notified to the EPA*;
- Presentation of a conceptual site model (CSM);

Fieldwork and Laboratory Analysis

- A detailed site walkover inspection;
- Completion of a groundwater monitoring event (GME), which included measurement of standing water levels (SWLs) and sampling at three groundwater monitoring wells (BH1M, BH3M and BH4M) installed as part of the geotechnical investigation conducted concurrently with this assessment.

Data Interpretation and Reporting

This PSI report was completed with reference to the NSW EPA (2020) *Consultants Reporting on Contaminated Land: Contaminated Land Guidelines*. It documents the investigation works, with discussion of the findings in regards to potential exposure pathways to human health and the environment. It concludes with a statement concerning the potential for contamination to exist on the land and site suitability for the proposed residential development.

1.5. Regulatory Framework

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

- Contaminated Land Management Act 1997 (the CLM Act 1997);
- Protection of the Environment Operations Act 1997 (the POEO Act 1997);
- Environmental Planning and Assessment Act 1979 (the EP&A Act 1979);
- State Environmental Planning Policy (*Resilience and Hazards*) 2021;
- NEPC (2013) *National Environmental Protection (Assessment of Site Contamination) Amendment Measure 1999*;
- NSW EPA (2014) *Waste Classification Guidelines*;
- NSW EPA (2017) *Guidelines for the NSW Site Auditor Scheme*;
- NSW EPA (2020) *Consultants Reporting on Contaminated Land: Contaminated Land Guidelines*; and
- *Mosman Local Environmental Plan 2012*.

2. Site Description

2.1. Property Identification, Location and Physical Setting

The site identification details and associated information are presented in **Table 2-1**. The site locality and assessment area are shown in **Figures 1 and 2, Appendix A**.

Table 2-1 Site Identification

Attribute	Description
Street Address	40-56 Ourimbah Road, Mosman NSW
Location	Approximately 6.4km north-east of the Sydney CBD, bound by Ourimbah Road (north), Bond Street (east), mixed commercial and residential properties (west) and residential properties (south).
Geographical Coordinates	Northern corner of site (GDA2020-MGA56): ▪ Easting: 336912.614706 ▪ Northing: 6256177.836593 (Source: http://maps.six.nsw.gov.au)
Site Area	Approximately 2,527.7m ² (Appendix B)
Lot and DP	▪ Lots 1 & 2 in DP 512796 (40-42 Ourimbah Road, Mosman); ▪ Lots A, B, C & D in DP 107522 (44-50 Ourimbah Road, Mosman); ▪ Lot 3 of Section 2 in DP 2864 (52 Ourimbah Road, Mosman); and ▪ Lots 21 & 22 in DP 621690 (54-56 Ourimbah Road, Mosman).
State Survey Marks	Three permanent marks are situated within close proximity (<150m) to the site: ▪ PM35886F: on the Ourimbah Road (approximately 18m north); ▪ PM10597F: on the Ourimbah Road (approximately 95m north-east); and ▪ PM35891F: on the Ourimbah Road (approximately 120m north-west). (https://portal.spatial.nsw.gov.au/explorer/index.html)
LGA	Mosman Municipal Council
Current Zoning	R3: Medium Density Residential (<i>Mosman Local Environmental Plan 2012</i>)

2.2. Local Land Use

The site is situated within a general residential area. The sensitive receptors within close proximity (<250m) to the site are identified in **Table 2-2**.

Table 2-2 Local Land Use

Direction	Land Use Description	Sensitive Receptor (distance from site)
North	Residential properties	Residents/visitors (approximately 20m north)
South	Residential properties Bond Street Montessori Early Learning Centre	Residents/visitors (immediately adjacent) Children (approximately 90m south)
East	Residential properties	Residents/visitors (approximately 20m east)
West	Mixed commercial and residential properties	Residents/visitors (immediately adjacent)

2.3. Regional Setting

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

Table 2-3 Regional Setting Information

Attribute	Description
Topography	The site gently slopes to the west to north-west. (https://meconemosaic.au/)
Drainage	Likely to be consistent with the general slope of the site. Surface runoff is expected to be collected in stormwater pits and piped to the municipal drain system.
Geology	According to the Department of Mineral Resources <i>Sydney 1:100,000 Geological Series Sheet 9130</i> (DMR, 1983), the site is underlain by Hawkesbury Sandstone (<i>Rh</i>), consisting of medium to coarse-grained quartz sandstone, very minor shale and laminate lenses.
Soil Landscape	The NSW Government Department of Planning, Industry and Environment <i>eSPADE v2.0</i> website indicates that the site overlies a Gynea (gy) erosional soil landscape which is characterised by undulating to rolling rises and low hills on Hawkesbury Sandstone.
Acid Sulfate Soil (ASS) Risk	The site is not mapped as containing ASS on the <i>Mosman Local Environmental Plan 2012</i> Acid Sulfate Soil Maps. With reference to the <i>Prospect / Parramatta Acid Sulfate Soil Risk Map</i> (1:25,000 scale; Murphy, 1997), the site lies within the class description of 'No Known Occurrence'. In such cases, ASS materials are not known or expected to occur and "land management activities are not likely to be affected by ASS materials." Furthermore, the NSW Government Department of Planning, Industry, and Environment <i>eSPADE v2.2</i> website indicates that the site is also situated in an area of <i>No Known Occurrence</i>. Based on the geological investigation conducted by EI (Ref. E27082.G03), sandstone bedrock was encountered across the site. The potential risk of encountering ASS at the site is considered to be nil, and no further assessment or management measures are considered warranted.
Nearest Surface Water Feature	Quakers Hat Bay, approximately 670 m north of the site.
Groundwater Flow Direction	Groundwater flow direction was inferred to be north-westerly, with topographical slope, towards Quakers Hat Bay and ultimately discharges into Middle Harbour.

2.4. Groundwater Bore Records and Local Groundwater Use

An online search for groundwater bores registered with WaterNSW was conducted on 20 April 2026 (Ref. <https://realtimedata.waternsw.com.au/water.stm>). The search revealed three registered bores within a 500m radius of the site, all authorised for monitoring bore use. Relevant bore information, including bore purpose and bore location in relation to the site, is summarised in **Table 2-4**. Copies of the bore 'work summary' sheets and a bore location map are presented in **Appendix C**.

Table 2-4 Summary of Registered Groundwater Bores within 500m of the site

Bore	Date Drilled	Bore Depth (mBGL)	SWL (mBGL) / Yield (L/s) / Salinity	Approx. Distance & direction from site (m)	Bore Purpose
GW111485	19/03/2011	10.00	5.94 / 0.09 / -	260 m south-east	Monitoring
GW111484	19/03/2011	10.00	6.03 / 0.09 / -	260 m south-east	Monitoring
GW111483	19/03/2011	5.00	3.68 / 0.083 / -	260 m south-east	Monitoring

Note: '—' implies no data

2.5. Site Walkover Inspection

Observations were recorded during a walkover inspection of the site, conducted on 15 April 2026. These observations are summarised below. Photographs taken during the inspection are presented in **Appendix D**. At the time of inspection, the site was occupied and operational. No internal access was provided, as such, the inspection was limited to accessible external areas only.

- The site was a rectangular shaped block of land, occupied by residential and commercial buildings.
- 40-50 Ourimbah Road was occupied by three buildings, including six single-storey brick residential duplex dwellings. The building structures appeared to be generally in fair to good condition.
 - No front yards were observed at 40–42 Ourimbah Road (**Photographs 1 and 2**). A metal shed was present at the rear of 40 Ourimbah Road. The backyard of 42 Ourimbah Road comprised grass and trees (**Photograph 3**).
 - At 44 Ourimbah Road, a grassed front yard was observed, and the backyard was timber paved, containing outdoor furniture and surrounding plants. A lower ground level for storage was also noted (**Photograph 4**).
 - At 46 Ourimbah Road, both the front and rear yards were paved with brick, with no accessible soils (**Photograph 5**).
 - At 48 Ourimbah Road, the front yard comprised grass, while the backyard contained grass, plants and a brick shed (**Photographs 6 and 7**).
 - At 50 Ourimbah Road, a grassed front yard was observed, while the backyard was brick paved and included a brick shed (**Photograph 8**). The pavement appeared to be in good condition.
- 52 Ourimbah Road comprised two two-storey buildings overlying a single-level basement (**Photographs 9 and 10**). The front portion of the property was used for commercial purposes, with the ground floor occupied by Tempo Interiors (interior design business) and the first floor occupied by Our Yoga Place (Yoga studio). The rear portion of the property was used as residential; however, no access to the rear was available during the investigation (**Photographs 11 and 12**). The building structures appeared to be in fair to good condition. The concrete paving in front of the basement car parking area appeared to be in fair condition, with minor cracking and surface (oil-like) staining (**Photograph 10**).
- 54–56 Ourimbah Road comprised a two-storey brick building, including two duplex dwellings. The eastern portion (54 Ourimbah Road) was of mixed use, with the ground floor occupied by a commercial office (Hampton Architecture) and the first floor occupied by residential tenants. The western portion (56 Ourimbah Road) was occupied for residential purpose. The building structures appeared to be generally in fair to good condition.
 - The front areas of 54–56 Ourimbah Road were brick paved, with motorcycles parked within the front yard of 56 Ourimbah Road. The pavement appeared to be in good condition. The rear areas were concrete paved, with a timber shed presented in the backyard of 56 Ourimbah Road (**Photograph 13**). The pavement appeared to be in good condition. No visual signs of corrosion, salt scalding, iron oxide (i.e. orange brown) colouration or staining were observed.

- A range of plants was present on the site and within the areas adjacent to it, including small to large (mature) trees, grasses and weeds. The vegetation did not appear to be distressed, indicating that phytotoxicity is not an issue for local soils.
- There was no evidence indicative of the presence of an underground petroleum storage system (UPSS). No aboveground storage tank (AST) was present.
- No obvious (i.e. visible) signs of contamination, including fragments of potential asbestos containing materials (ACM) on the ground surface, were observed during the inspection.
- No olfactory indicators of contamination (i.e. suspicious odour) were detected during the inspection.
- Three dry-cleaning businesses (Mosman Coin Laundry & Dry Cleaning, Spit Junction Dry Cleaners & Alterations, and Rosemont Dry Cleaning - Alteration & Laundry) are located approximately 300m south-east of the site. Based on topographical mapping <https://meconemosaic.au/>, these businesses are considered to be up-gradient to the site.
- There was no NSW Fire and Rescue Station (or Training College) in the vicinity (<100m) of the site.

3. Site History and Searches

3.1. Land Titles

An historical land titles search was conducted for Lot 3 of Section 2 in DP 2864 (52 Ourimbah Road, Mosman) through Direct Info Pty Ltd, as this property was the only commercially operated lot within the site at the time of inspection. Copies of relevant documents resulting from this search are presented in **Appendix E**. A summary of the previous and current registered proprietors is presented in **Table 3-1**.

Table 3-1 Summary of Owner History

Year	Registered Proprietor(s) and Occupations (where documented)
Lot 3 of Section 2 in DP 2864 (52 Ourimbah Road, Mosman)	
1980	Edith May Phepps
1987 to 1988	Sam Herford & Son Pty Limited
1988 to 2007	David Elsworthy Lester
2007 to Date	# Delfran Pty Limited
# Denotes current registered proprietor	

3.3. Historical Aerial Photograph Review

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

- **1930, 1943, 1955, 1965, 1971, 1978, 1986, 1994 and 2005:** available through Spatial Service NSW (<https://portal.spatial.nsw.gov.au/portal/apps/webappviewer/index.html>); and
- **2005 to 2025:** provided by MetroMap (<https://metromap.com.au/>).

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

Table 3-2 Summary of Aerial Photograph Observations

Year	Description of Site and Surroundings	Land Use
1930	The site was occupied by residential/commercial buildings, largely consistent with the current structures. Surrounding areas consisted of residential properties.	Residential / Commercial
1943	The site was largely unchanged from the 1930 image. Surrounding areas were largely unchanged.	Residential / Commercial
1955	The site was largely unchanged from the 1943 image. Surrounding areas were largely unchanged.	Residential / Commercial
1965	The site was largely unchanged from the 1955 image. Surrounding areas were largely unchanged.	Residential / Commercial
1971	The site was largely unchanged from the 1965 image, with an exception that the building at 52 Ourimbah Road has been enlarged, with an extension to the south. Surrounding areas were largely unchanged.	Residential / Commercial
1978	The site was largely unchanged from the 1971 image.	Residential /

Year	Description of Site and Surroundings	Land Use
	Surrounding areas were largely unchanged.	Commercial
1986	The site was largely unchanged from the 1978 image, with an exception that the building at 52 Ourimbah Road appeared to have been reconfigured into two separate structures, largely consistent with the current structures. Surrounding areas were largely unchanged.	Residential / Commercial
1994	The site was largely unchanged from the 1986 image. Surrounding areas were largely unchanged.	Residential / Commercial
2005	The site was largely unchanged from the 1994 image. Surrounding areas were largely unchanged.	Residential / Commercial
2005-2025	The site was largely unchanged from the 2005 image. Surrounding areas were largely unchanged.	Residential / Commercial

3.4. Council Information

An application to access property records held by Mosman Municipal Council was submitted by EI during this investigation. At the time of writing this report, a response from Council had not been received. Should any pertinent information relating to site contamination be identified upon receipt of council records, an addendum to the PSI will be prepared and issued, if required.

3.5. NSW EPA Online Records

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

Record of Notices Under Section 58 of CLM Act 1997

An on-line search of the contaminated land public record was conducted on 22 April 2026. The contaminated land public record is a searchable database of:

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

The search confirmed that neither the site nor the surrounding lands within close proximity (≤250m) were subject to any regulatory notices relevant to the above legislations.

List of NSW Contaminated Sites Notified to EPA

A search through the *List of NSW Contaminated Sites Notified to the EPA* under Section 60 of the CLM Act 1997 was conducted on 22 April 2026. This list is maintained by the NSW EPA and includes properties on which contamination has been identified, but not deemed to be impacted significantly enough to warrant regulation.

The search confirmed that neither the site, nor the surrounding lands within close proximity ($\leq 250\text{m}$) were notified as contaminated to the NSW EPA (i.e. they were not included in the list).

POEO Public Register

A search of the *Protection of the Environment Operations Act 1997* public register was conducted on 22 April 2026. This register contains records relating to environmental protection licences, applications, notices, audits, pollution studies and reduction programs.

The search confirmed that neither the site nor the surrounding lands within close proximity ($\leq 250\text{m}$) were subject to any licensing agreements / notices / programs relevant to this legislation.

3.6. Previous Environmental Investigations

EI has not been provided with any previous environmental investigations for the site.

A Lotsearch report (Reference: LS111395 EL, dated 1 December 2025) was reviewed as part of this investigation. The Lotsearch report identified two former dry-cleaning businesses in the vicinity of the site:

- Ourimbah Laundromat, formerly operating as a dry cleaner at 58 Ourimbah Road, Mosman (immediately adjacent to the west of the site, down-gradient) between 1980 and 1983; and
- Robinson E., formerly operating as a dry cleaner at 33 Rosebery Street, Mosman (approximately 15m to the west of the site, down-gradient) between 1948 and 1954.

Although these properties are located down-gradient from the site, these former dry-cleaning businesses are considered a potential source of contamination due to their close proximity to the site and have been taken into consideration in the Conceptual Site Model (**Section 4**).

Note that this PSI was completed concurrently with a geotechnical investigation (Ref. E27082.G03) by EI. Relevant findings from this geotechnical investigation were summarised in **Section 4.3**.

4. Conceptual Site Model

In accordance with NEPC (2013) *Schedule B2 - Guideline on Site Characterisation*, EI developed a conceptual site model (CSM) assessing plausible pollutant linkages between potential contamination sources, migration pathways and receptors. The CSM provides a framework for identifying data gaps in the existing site characterisation and future site assessments.

4.1. Rationale

The primary purpose of this PSI was to appraise the potential for contamination to exist on the site. If such a potential was confirmed, the environmental and human-health risks associated with contamination were to be evaluated.

This particular appraisal did not involve intrusive sampling and laboratory analysis of soil, soil vapour and/or groundwater. Hence, the potential for contamination was mainly based on a desktop study, collating information from previous environmental reports, history searches and government-maintained databases, as well as a walkover inspection. Professional judgement was then applied, based on previous experience.

4.2. Summary of Site History

Based on the available historical information (**Section 3**), as well as the observations made during the walkover inspection (**Section 2.5**), the site was occupied by commercial and residential buildings since at least the 1930s. The commercial building located at 52 Ourimbah Road was later reconfigured into two separate structures in the 1980s. Current commercial activities on the site are limited to office and studio uses, comprising an interior design business (Tempo Interiors) and a yoga studio (Our Yoga Place) at 52 Ourimbah Road, and a commercial office (Hampton Architecture) at 54 Ourimbah Road. These activities are not considered to be potentially contaminating in nature.

The surrounding area was predominantly occupied by low-density residential properties. Local commercial businesses were mainly located 250-400m south to south-east of the site along Military Road and Spit Road. Former dry-cleaning businesses in the vicinity of the site were identified through a Lotsearch report (**Section 3.6**).

4.3. Subsurface Conditions

Based on the map information (**Section 2**) and the geotechnical investigation (**Section 3.6**), the subsurface conditions of the site were expected to be a layer of shallow silty / gravelly sand filling (down to 1.0 m), overlying natural silty / sandy clay and sandstone bedrock (to the investigation depth of 15.45m).

The potential for ASS to be present on the site was low.

Local groundwater flow direction was inferred to be north-westerly, towards Quakers Hat Bay.

4.4. Potential Contamination Sources

The potential contamination sources were as follows:

- Imported fill materials of unknown origin and quality, used to grade and level the site;
- Hazardous building materials within former site structures (including asbestos-containing material (ACM), lead-based paints and metallic (surfaces), the weathering of which would result in deposition of contaminants in near-surface soils;

- Application of pesticides around building (footing) perimeters;
- Leaks from vehicles in the parking area; and
- Off-site migration from neighbouring properties (current / former dry cleaners).

4.5. Potential Contaminates

PFAS and Emergent Chemicals

PFAS Assessment

EPA (2017) requires that PFAS are considered when investigating land contamination. An assessment of the probability for PFAS occurrence is provided in **Table 4-1**. This was based on considerations outlined in the *PFAS National Environmental Management Plan* (HEPA, 2025) and the EnRisk (2016) decision tree. In this instance, the potential for PFAS to be present on-site was low.

Table 4-1 Potential for PFAS Contamination

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

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

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

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

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

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

Emerging Chemicals

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

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

Chemicals of Concern (CCO or emerging)	Decision
Were aluminium smelter wastes used or stored on site (CCO, 1986)?	No
Do dioxin contaminated wastes (CCO, 1986) have the potential to impact the site? ¹	No
Were organotin products (CCO, 1989) used or stored on site? ²	No
Were polychlorinated biphenyls (PCBs) used or PCB wastes (CCO, 1997) stored on-site? ³	No
Were scheduled chemical or wastes (CCO, 2004) used or stored? ⁴	Possibility for pesticides to have been applied to building footings and/or present in imported fill
Are other emerging chemicals suspected? ⁵	No
If Yes to any questions, has site sampling suite been optimised to include sampling for these chemicals of concern?	Yes Potential pesticide usage.

Note 1 From burning of certain chemicals, smelting or chemical manufacturing or fire on or near the site.

Note 2 From anti-fouling paints used or removed at boat and ship yards and marinas.

Note 3 From older transformer oils and electrical capacitors

Note 4 Twenty-four mostly organochlorine pesticides and industrial by-products

Note 5 Other chemicals considered as emerging (e.g. 1,4 dioxane; associated with some Chlorinated Volatile Organic Compounds (CVOC)).

Potential Contaminants

The potential contaminants at the site were considered to be:

- Priority Metals (PM) - arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc;
- Total Recoverable Hydrocarbons (TRHs);
- The monocyclic aromatic hydrocarbons Benzene, Toluene, Ethylbenzene, Xylenes (BTEX);
- Polycyclic Aromatic Hydrocarbons (PAHs);
- Organochlorine and Organophosphorus Pesticides (OCP / OPP);
- Polychlorinated Biphenyls (PCB);
- Asbestos; and
- Volatile Organic Compounds (VOCs), including chlorinated VOCs (if groundwater is impacted).

4.6. Identified Receptors

The following potential receptors of site contamination were identified:

- Current site users / occupiers;
- On-site demolition / construction workers (during future redevelopment);
- Users of the adjacent land during future demolition / construction works;
- Future site users; and
- Local groundwater and (ultimately) Quakers Hat Bay.

4.7. Qualitative Risk Assessment

A qualitative assessment of the potential risks for the site relating to the identified sources of contamination is summarised in **Table 4-3**.

Table 4-3 Assessment of Potential Contamination Risk

Potential Source	Impacted Medium	COPC	Risk of Contamination
Importation of fill of unknown origin and quality	Soil	PM, TRH, BTEX, PAH, OCP, OPP, PCB, asbestos	Low Shallow filling was expected on the site. No gross contamination was noted during the site visit.
Hazardous building materials	Building fabrics Near surface soil	PM (lead in particular), PCB, asbestos	Moderate Given site history and the age of construction of the buildings, hazardous building materials may be present within the site structures, and use and subsequent demolition may have resulted in fallout of remnant material to the ground surface. However, good demolition practices can mitigate the risks related to asbestos presence in current structures. A HMS (Section 6) is recommended.
Application of pesticides	Near surface soil (building footing areas)	PM (arsenic and copper), OCP, OPP	Low If present, pesticides are expected to be limited to shallow soil in the vicinity of building footings.
Leakage from vehicles	Near surface soil	PM, TRH, BTEX, PAH	Low The surface pavements were noted to be in good to fair condition, with minor cracks and (oil-like) staining observed in the parking area. Contamination, if any, is expected to be localised and restricted to shallow soils.
Migration from off-site sources	Soil Groundwater	PM, TRH, VOCs (including BTEX and cVOCs), PAH	Moderate Three current dry-cleaning businesses are located to the south-east of the site along Spit Road (up-gradient). Former dry-cleaning businesses were also identified immediately to the west and approximately 15 m west of the site (down-gradient). Potential migration of contaminants from these properties was considered likely due to their close proximity to the site.

4.8. Summary of the CSM

A groundwater quality assessment was conducted as part of this PSI to characterise groundwater conditions beneath the site and to assess the nature and extent of contamination that may be present. Based on the findings of this assessment, no evidence of significant groundwater contamination was identified beneath the site. Accordingly, further groundwater assessment or remediation is not considered warranted for the proposed development. More details are presented in a letter report attached in **Appendix F**.

Following this assessment, a CSM including the potential contamination sources, exposure pathways and human and environmental receptors, is summarised in **Table 4-4**. Based on this model, the overall potential for contamination to exist on the site was considered to be low.

In addition, under the proposed development (**Appendix B**), bulk excavation of majority of site soils would be performed in order to construct the two- to three-level basement (covering the majority of the available area). This would result in the removal of existing site infrastructure, fill soils, and potential on-site contaminant sources within the basement construction removing this concern for the development.

Table 4-4 Summary of the CSM

Potential Source	Impacted Medium	COPCs	Transport Mechanism	Exposure Pathway	Potential Receptor	Source-Pathway-Receptor (SPR) Linkage
Imported fill of unknown origin and quality	Soil	PM, TRH, BTEX, PAH, OCP, OPP, PCB and asbestos	Disturbance of surface and subsurface soils during site redevelopment, future site maintenance and future use of the site post redevelopment	Ingestion Dermal contact Inhalation of particulates	Current and future site occupier Demolition / construction workers Adjacent site users Future intrusive workers	Potentially complete Imported fill: likely Hazardous building material : likely; temporary; demolition management required during construction Application of pesticides: yes, minor Leakage from vehicles: likely During Construction: Use of personal protective equipment (PPE) is mandatory for construction workers. WHS Act and Regulations apply
Hazardous building materials			Atmospheric dispersion from soil to outdoor and indoor air spaces			
Application of pesticides		TRH, BTEX and PAH	Volatilisation of contamination from soil and diffusion to indoor air spaces.	Inhalation of vapours		
Leakage from vehicles		PM, TRH, BTEX, PAH, PCB, OCP and OPP	Roots absorption of bioavailable compounds from impacted soils.	Biota uptake	Ecological receptors in areas of exposed soil/landscaping	Potentially complete However, the proposed basement covers the majority of site area. Landscaping areas (if any) are limited.

5. Conclusion

The site identified as 40-56 Ourimbah Road, Mosman NSW was the subject of a preliminary site investigation (PSI), with the main objective of appraising the potential for contamination. The key findings of this PSI were as follows:

- Site inspection was conducted on 15 April 2026 and was limited to accessible external areas only. The site was a rectangular shaped block of land, occupied by residential and commercial buildings. At the time of inspection, the site was occupied and operational. Current commercial activities on the site are limited to office and studio uses, comprising an interior design business (Tempo Interiors) and a yoga studio (Our Yoga Place) at 52 Ourimbah Road, and a commercial office (Hampton Architecture) at 54 Ourimbah Road.
- No indication of gross contamination was detected during the inspection. There was no evidence of underground storage tanks (USTs) on the site. No above-ground storage tanks (ASTs) were present.
- The history review indicated that the site has been used for residential and commercial purposes since at least 1930. Most of the current building structures were constructed prior to 1930 and have remained largely unchanged, with the exception of the commercial building at 52 Ourimbah Road, which was reconfigured into two separate structures in the 1980s.
- The surrounding area was predominantly occupied by low-density residential properties. Local commercial businesses were mainly located 250-400m south to south-east of the site along Military Road and Spit Road. Former dry-cleaning businesses were identified immediately to the west and approximately 15 m west of the site.
- The site and surrounding lands within close proximity ($\leq 250\text{m}$ radius) were free of statutory notices and licensing agreements issued under the *Contaminated Land Management Act 1997* and *Protection of the Environment Operations Act 1997*. The site and surrounding lands were not included on the *List of NSW Contaminated Sites Notified to the EPA*.
- The subsurface conditions of the site were expected to be a layer of shallow silty / gravelly sand filling (down to 1.0 m), overlying natural silty / sandy clay and sandstone bedrock (to the investigation depth of 15.45m).
- The potential risk of encountering acid sulfate soil at the site is considered to be nil, and no further assessment or management measures are considered warranted.
- The local groundwater flow direction was inferred to be north-westerly, towards Quakers Hat Bay.
- The conceptual site model (CSM) identified there was a low to moderate risk for contamination to exist on the site, mainly associated with importation of fill materials, hazardous building materials, pesticides use, leakage from vehicles and off-site migration of contaminants from neighbouring properties (i.e. dry cleaner).
- A groundwater quality assessment was conducted as part of this PSI, comprising one round of groundwater monitoring and sampling from three monitoring wells (BH1M, BH3M and BH4M). Based on the findings of this assessment, no evidence of significant groundwater contamination was identified beneath the site. Accordingly, further groundwater assessment or remediation is not considered warranted for the proposed development. More details are presented in a letter report attached in **Appendix F**.
- Under the proposed development, bulk excavation of majority of site soils would be performed in order to construct the two- to three-level basement (covering the majority of the available area). This would result in the removal of existing site infrastructure, fill soils,

and potential on-site contaminant sources within the basement construction removing this concern for the development.

Based on the findings of this PSI, and with consideration of EI's *Statement of Limitations* (**Section 7**), it was concluded that the overall potential for contamination to exist on the site was low. In accordance with *State Environmental Planning Policy (Resilience and Hazards) 2021*, EI considers that the site is suitable for the proposed residential development, subject to the implementation of recommendations provided in **Section 6**.

6. Recommendations and Mitigation Measures

EI provides the following recommendations and mitigation measures in relation to the redevelopment of the site:

Pre-Construction Phase

- Before commencement of any demolition works, a Hazardous Materials Survey (HMS) should be completed by a suitably qualified consultant, to confirm the presence / location of any hazardous materials within the existing fabric of buildings.
 - All identified hazardous materials must be appropriately managed during future demolition works, to maintain worker health and safety and prevent the spread of hazardous substances onto the site surface.
 - An asbestos clearance inspection and certificate should be completed by a suitably qualified professional (SafeWork NSW Licensed Asbestos Assessor) following the removal of all ACM.
 - Where clearance inspection indicates hazardous materials remain on the site, further removal and re-clearance inspection, must be undertaken.

Construction Phase

- All soil materials that are designated for off-site disposal, including any *virgin excavated natural material* (VENM), must be pre-classified in accordance the NSW EPA (2014) *Waste Classification Guidelines*.
- Once appropriately classified, all waste materials are to be transported to EPA-licensed waste facilities by the appointed waste contractors. All tipping dockets supplied by the landfill companies are to be retained, to confirm the appropriate (lawful) disposal of wastes.
- Any material being imported to the site should be validated as suitable for the intended (residential) use, in accordance with NSW EPA guidelines. In particular, imported filling / landscaping material must be certified as meeting the VENM classification, prior to importation.

The above recommendations and mitigation measures should be incorporated into the demolition and construction planning processes, as appropriate, to ensure any potential contamination-related risks are effectively managed throughout redevelopment of the site.

EI emphasise that these recommendations can be managed in accordance with *State Environmental Planning Policy (Resilience and Hazards) 2021*.

7. Statement of Limitations

This report has been prepared for the exclusive use of The Trustee for Ourimbah Developments Trust, whom is the only intended beneficiary of EI's work. The scope of the investigation carried out for the purpose of this report is limited to that agreed with The Trustee for Ourimbah Developments Trust.

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

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

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

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

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

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

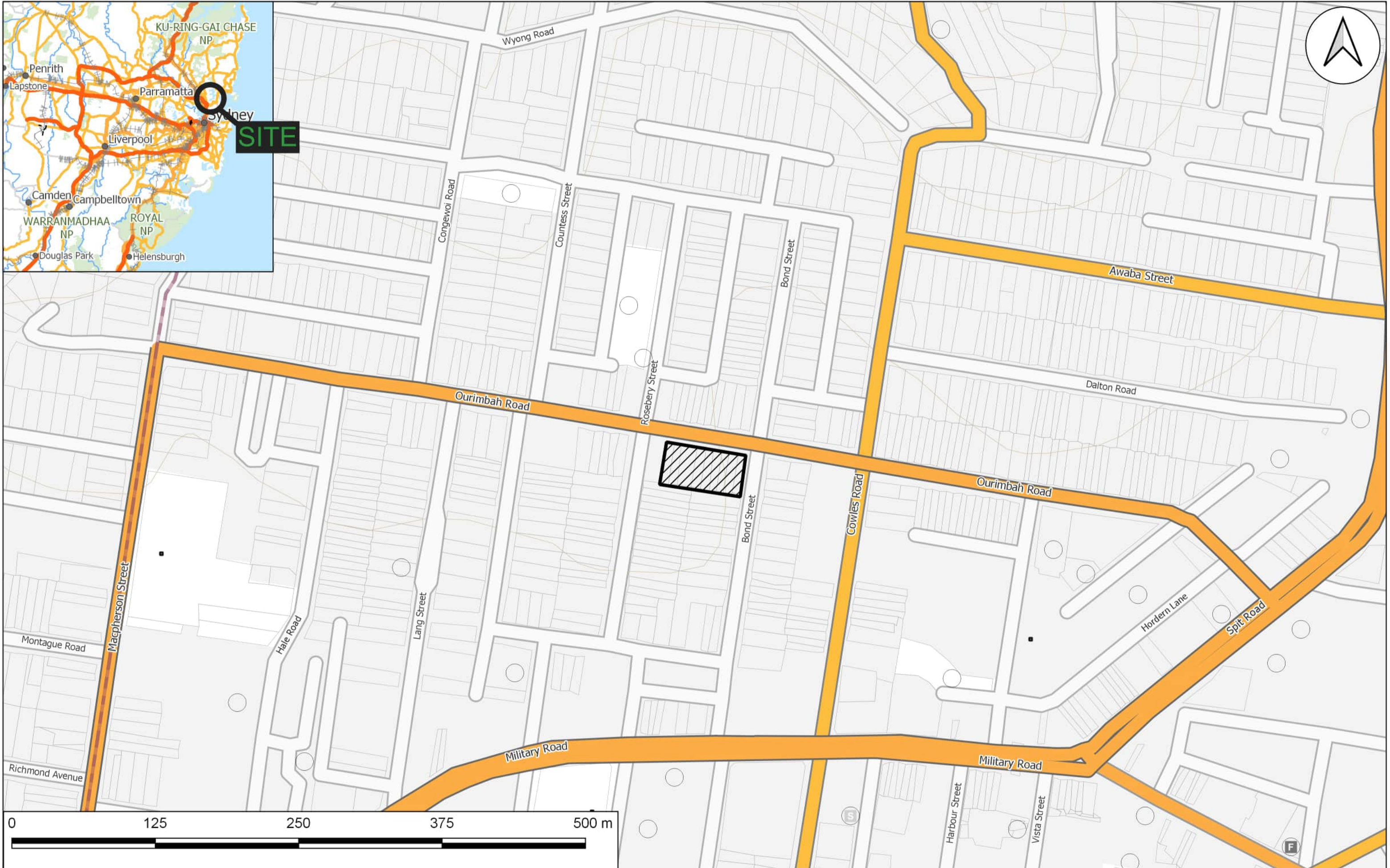
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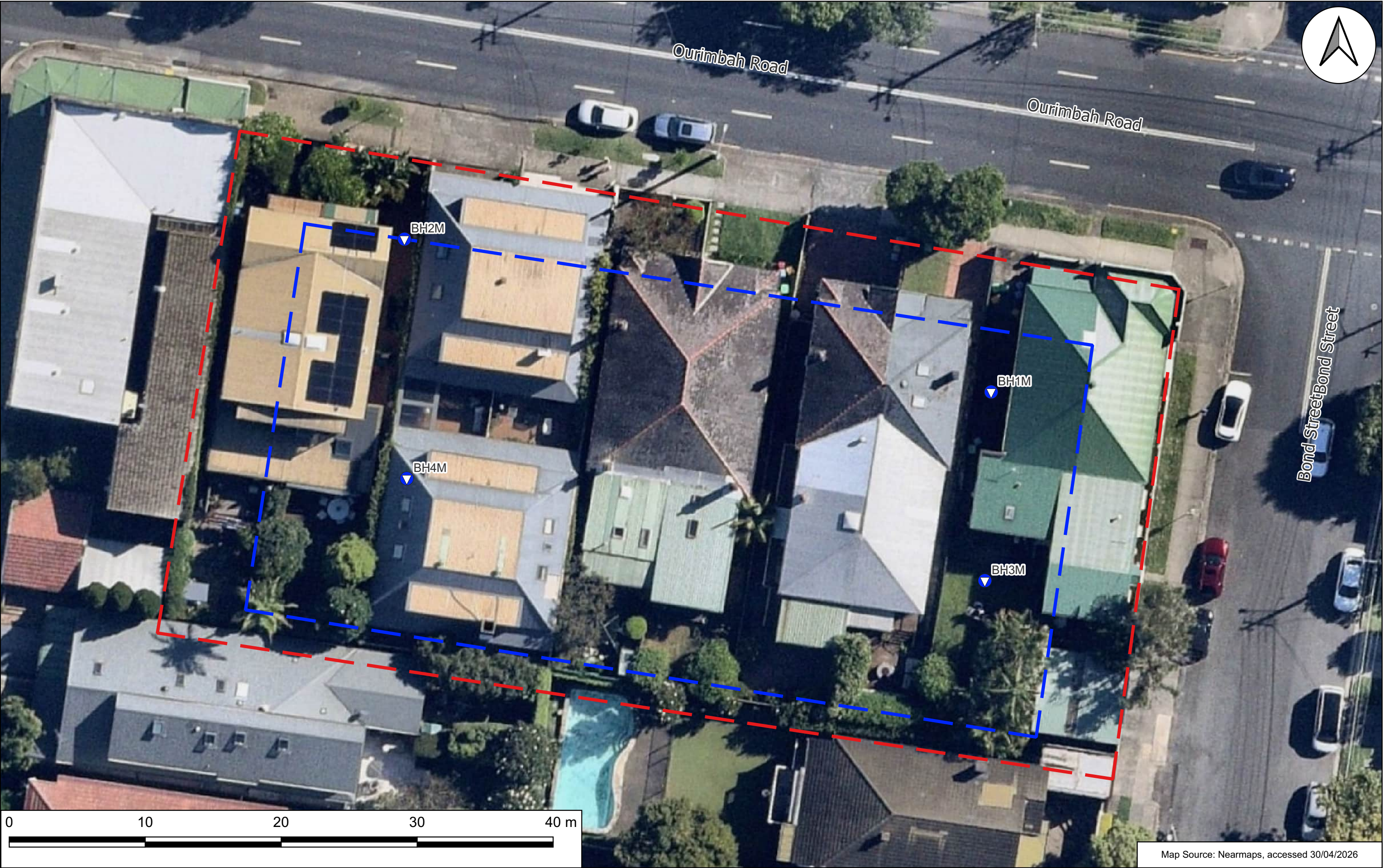
Abbreviations

ACM	Asbestos-Containing Materials
ASS	Acid Sulfate Soils
AST	Above-ground Storage Tank
B(α)P	Benzo(α)Pyrene (a PAH compound)
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CBD	Central Business District
CCO	Chemical Control Order
CLM	Contaminated Land Management
CSM	Conceptual Site Model
DCCEEW	Department of Climate Change, Energy, Environment and Water
DP	Deposited Plan
EPA	Environment Protection Authority (of New South Wales)
EIS	Environmental Impact Statement
GME	Groundwater Monitoring Event
GILs	Groundwater Investigation Levels
HMS	Hazardous Materials Survey
km	Kilometres
L	Litres
LEP	Local Environmental Plan
LGA	Local Government Area
m	Metres
mAHD	metres Australian Height Datum
mBGL	metres Below Ground Level
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
NSW	New South Wales
NSW EPA	New South Wales Environmental Protection Agency
OCP	Organochlorine Pesticides
OPP	Organophosphate Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PFAS	Per- and Poly-Fluoroalkyl Substances
PM	Priority Metals
POEO	Protection of the Environment Operations
PSI	Preliminary Site Investigation
RFB	Residential Flat Building
SAQP	Sampling, Analytical and Quality Plan
SEPP	State Environmental Planning Policy
SERAs	Secretary's Environmental Assessment Requirements
SSDA	State Significant Development Application
TRH	Total Recoverable Hydrocarbons (non-specific analysis of organic compounds)
UPSS	Underground Petroleum Storage System
UST	Underground Storage Tank
USEPA	United States Environmental Protection Agency
VENM	Virgin Excavated Natural Material
VOCs	Volatile Organic Compounds

Appendix A – Figures

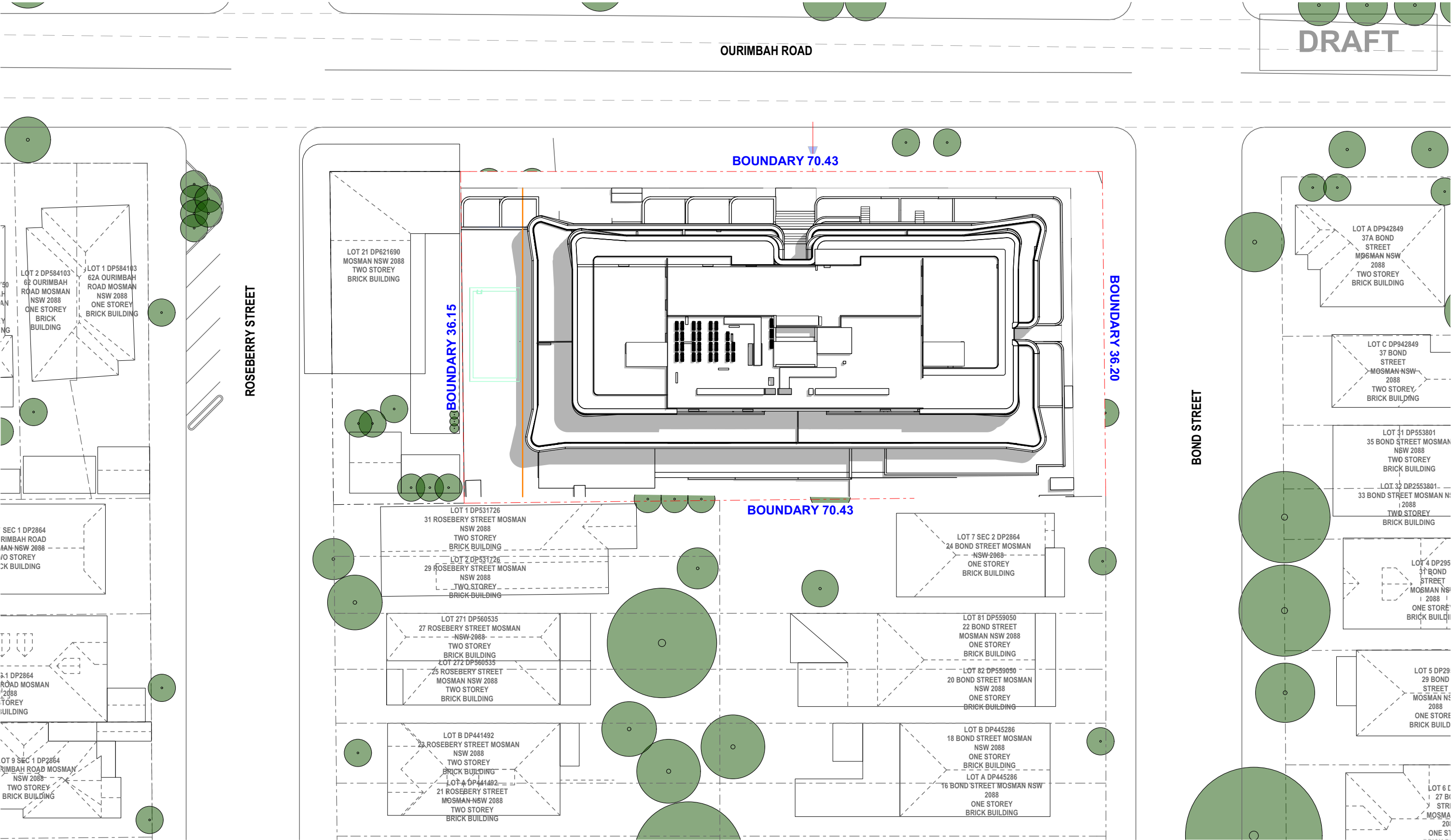


LEGEND Note: All locations are approximate  Site Location	 Practical Solutions for Built Environments Suite 6.01, 55 Miller Street, PYRMONT 2009 Ph (02) 9516 0722 Fax (02) 9518 5088	Drawn:	F.Z.	The Trustee for Ourimbah Developments Trust Preliminary Site Investigation Residential Flat Building with Infill Affordable Housing at 40-56 Ourimbah Road, Mosman NSW Site Locality Plan	Figure: 1
		Approved:			Project: E27082.E01
		Date:	22/06/2026		



LEGEND Note: Areas are approximate	 eiaustralia Practical Solutions for Built Environments Suite 6.01, 55 Miller Street, PYRMONT 2009 Ph (02) 9516 0722 Fax (02) 9518 5088	Drawn:	F.Z.	The Trustee for Ourimbah Developments Trust Preliminary Site Investigation Residential Flat Building with Infill Affordable Housing at 40-56 Ourimbah Road, Mosman NSW Site Layout Plan	Figure:	2
		Approved:				
		Date:	22/06/2026			
		 Site boundary	 Proposed Basement Footprint	 Groundwater Monitoring Well	Project: E27082.E01	

Appendix B – Proposed Development Plans



1

SITE PLAN

REV	DATE	ISSUE
A	26.05.19	ISSUE FOR SSD.

GENERAL NOTES:

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5. INFORM THE ARCHITECT OF ANY DISCREPANCIES.
6. THE WORK IS TO BE COMPLETED IN ACCORDANCE WITH THE NATIONAL CONSTRUCTION CODE OF AUSTRALIA, AUSTRALIAN STANDARDS, SAA CODES AND ALL RELEVANT CONDITIONS BY-LAW.
7. THE BUILDING / MANUFACTURER SHALL CHECK AND VERIFY ALL DIMENSIONS, RL, GROUNDLINES AND CONSTRUCTION METHODS PRIOR TO COMMENCEMENT OF WORK.
8. A COPY OF THIS PLAN IS TO BE SUBMITTED BY THE PROPRIETOR TO THE WATERBOARD FOR APPROVAL AS REQUIRED BY THE LOCAL COUNCIL.
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FIRST
QUADRANT
PROPERTIES

Transmittal Set

Project: OURIMBAH RD, MOSMAN NSW 2088 I.E. LMR RFB
Client: Ourimbah Developments Pty Ltd
Address: 40-56 OURIMBAH ROAD MOSMAN NSW 2088 AUSTRALIA

Project No: Pn_0801
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Date:

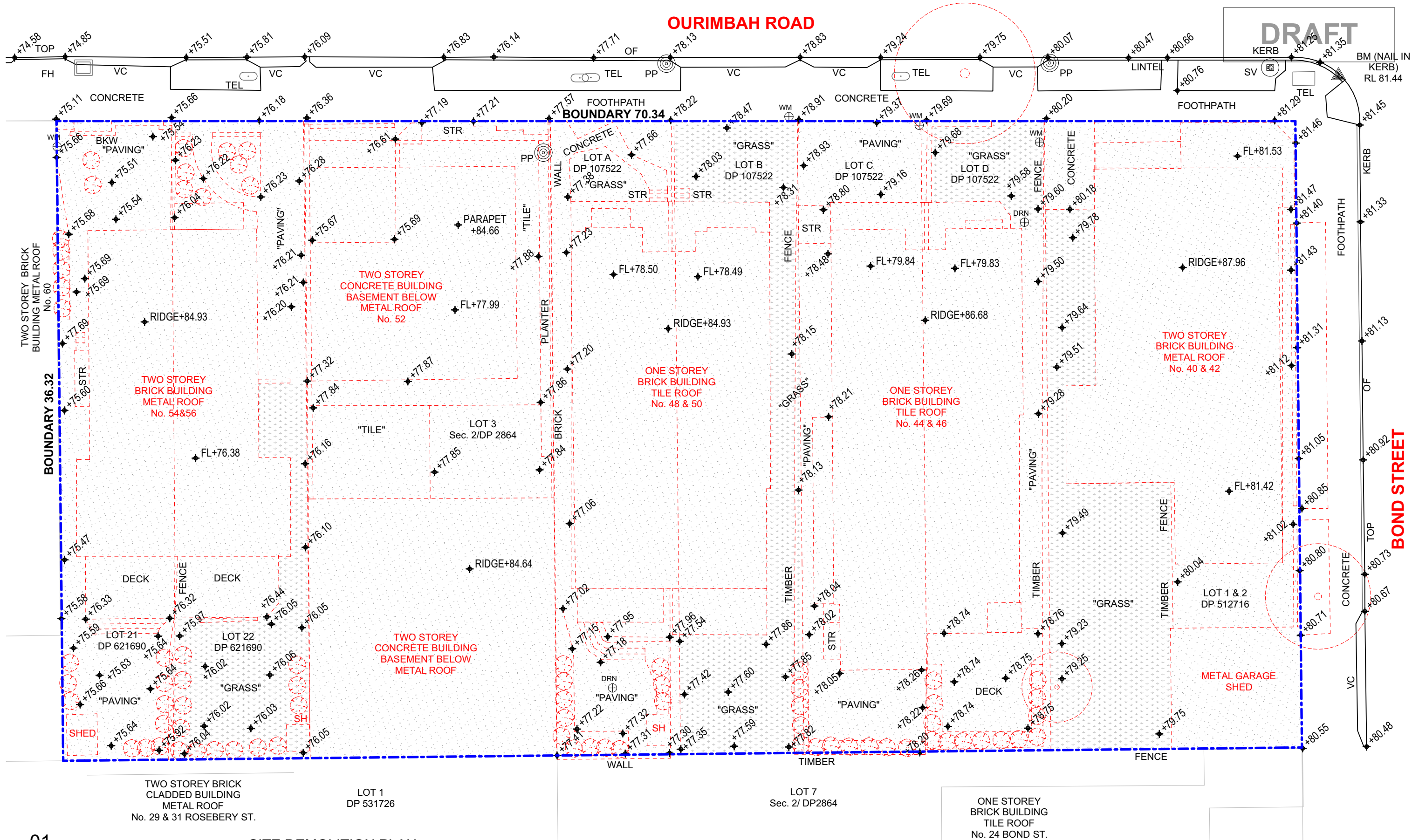
Drawing Title:
SITE PLAN

Revision:
A

Drawing No:
A013

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Design Practitioner Pavlo Doroch DEP0000211



01

SITE DEMOLITION PLAN

REV	DATE	ISSUE
A	26.05.19	ISSUE FOR SSD.

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Client: Ourimbah Developments Pty Ltd
Address: 40-56 OURIMBAH ROAD MOSMAN NSW 2088 AUSTRALIA

ONE STOREY
BRICK BUILDING
TILE ROOF
No. 24 BOND ST.

Project No: Pn_0801
Checked: Drawn:
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Date:

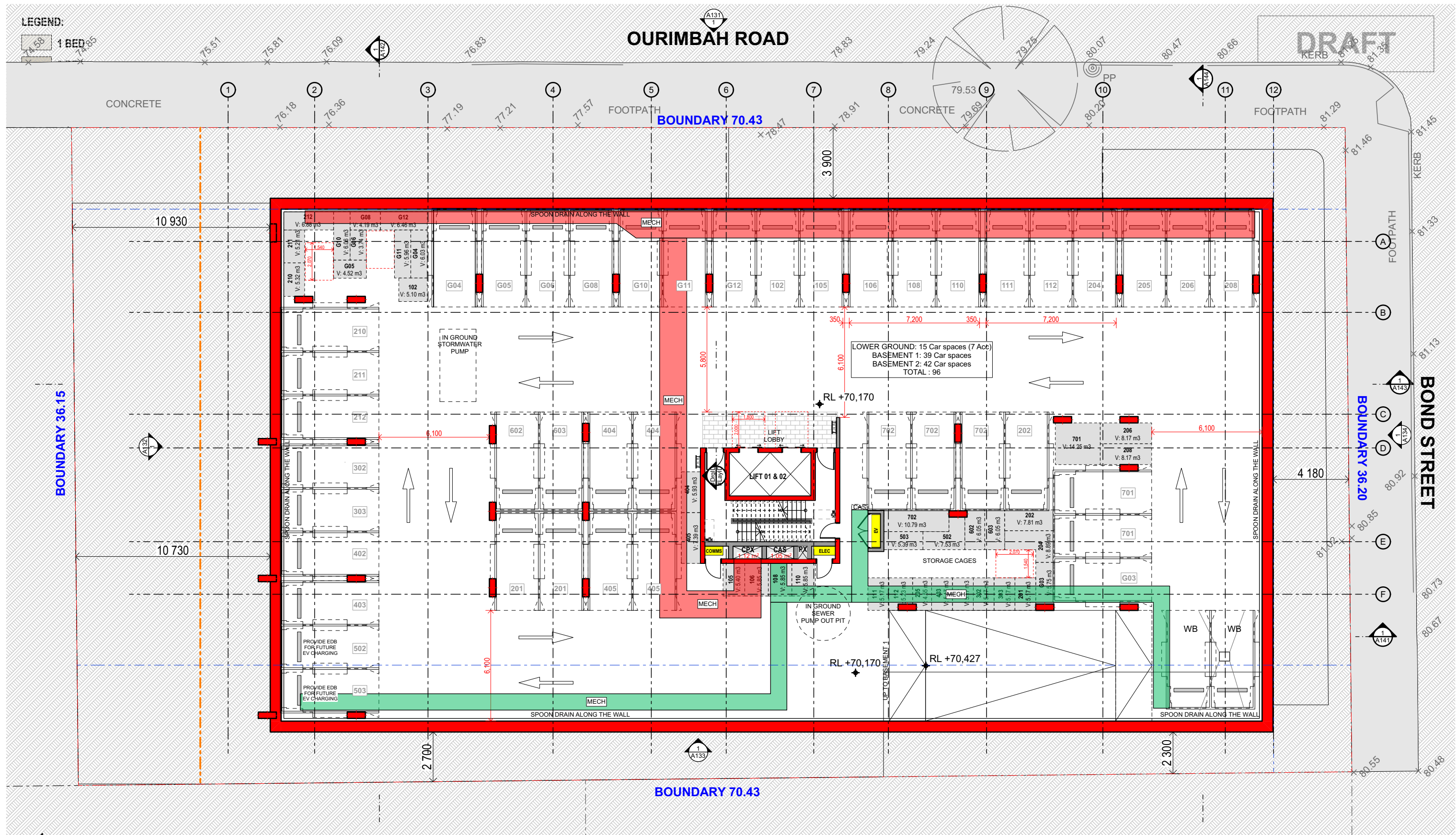
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SITE DEMOLITION PLAN

Revision:
A

Drawing No:
A014

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NSW Nominated Architect Pavlo Doroch 9170
Design Practitioner Pavlo Doroch DEP0000211



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4. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT CONSULTANT DRAWINGS AND SPECIFICATIONS.
5. INFORM THE ARCHITECT OF ANY DISCREPANCIES.
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QUADRANT
PROPERTIES

Transmittal Set

Project: OURIMBAH RD, MOSMAN NSW 2088 I.E. LMR RFB

Client: Ourimbah Developments Pty Ltd

Address: 40-56 OURIMBAH ROAD MOSMAN NSW 2088 AUSTRALIA

Project No: Pn_0801

Checked: Drawn:

Scale@A3:

Date:

Drawing Title:
BASEMENT 2 FLOOR PLAN

Revision:
A

Drawing No:
A101

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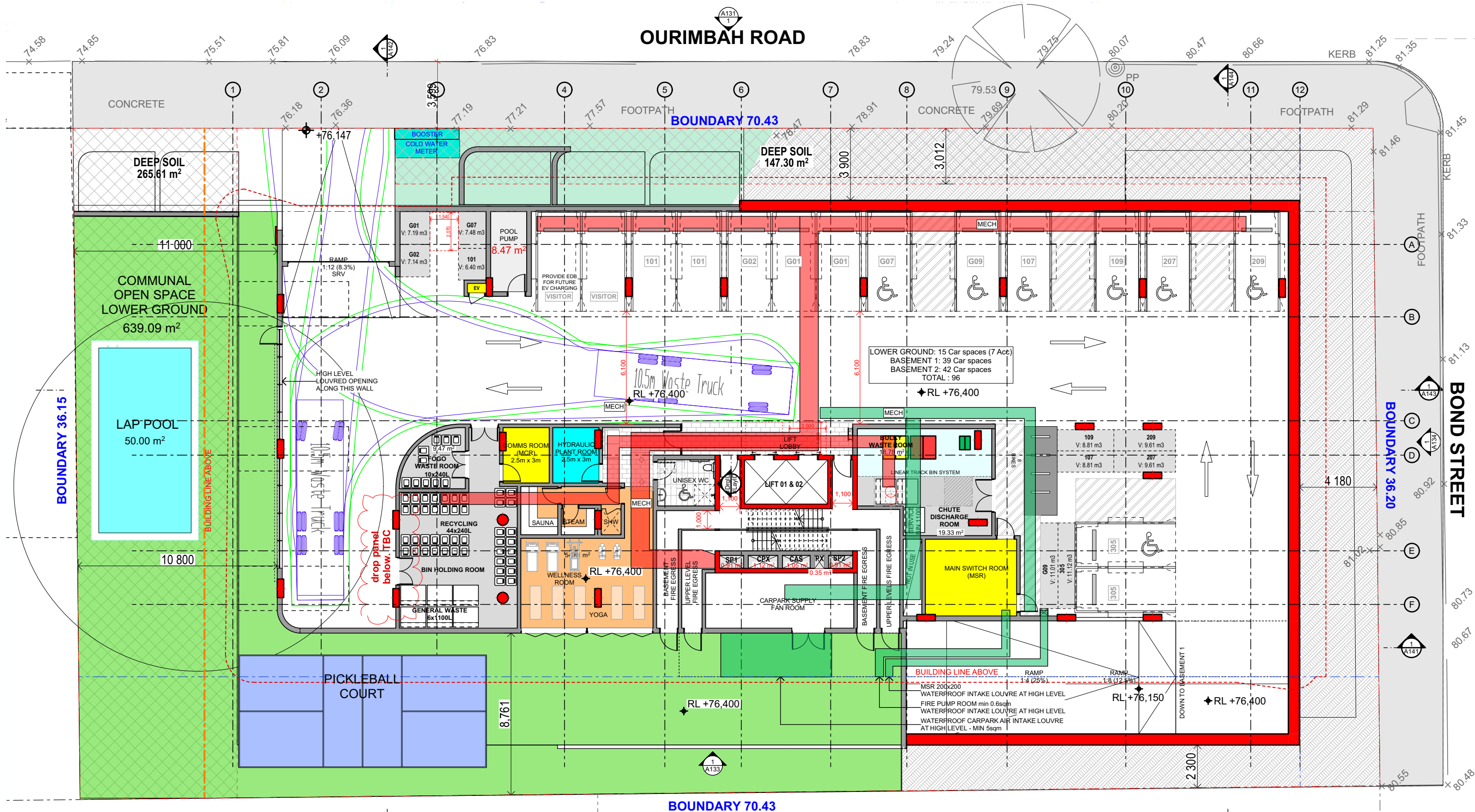
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1

LOWER GROUND FLOOR PLAN

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Project No: Pn_0801
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Scale@A3: 1:200
Date:

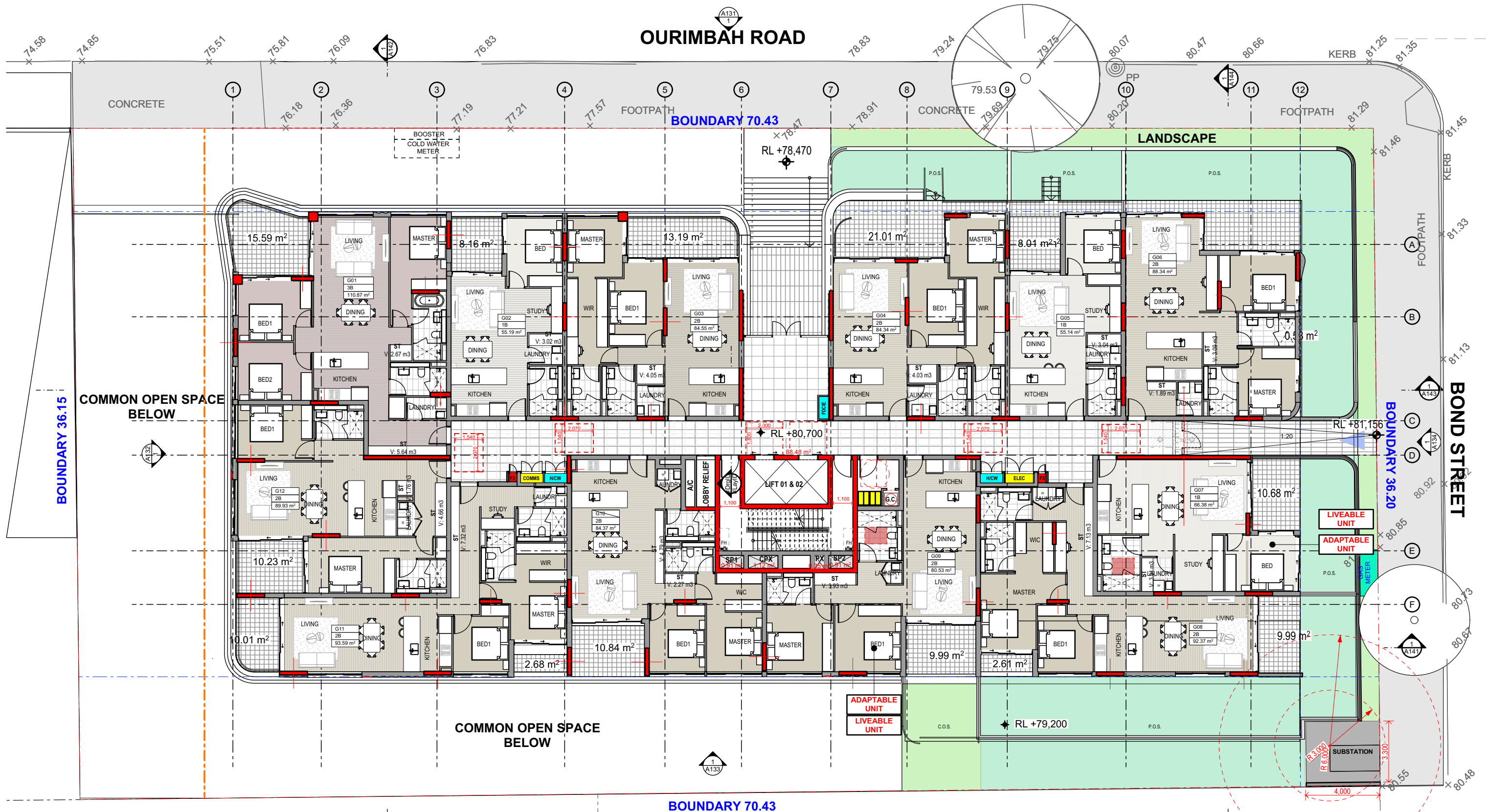
Drawing Title:
LOWER GROUND FLOOR
PLAN

Revision:
A

Drawing No:
A103

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1

GROUND FLOOR PLAN

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Address:
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AUSTRALIA

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Date:

Drawing Title:
GROUND FLOOR PLAN

Revision:
A

Drawing No:
A104

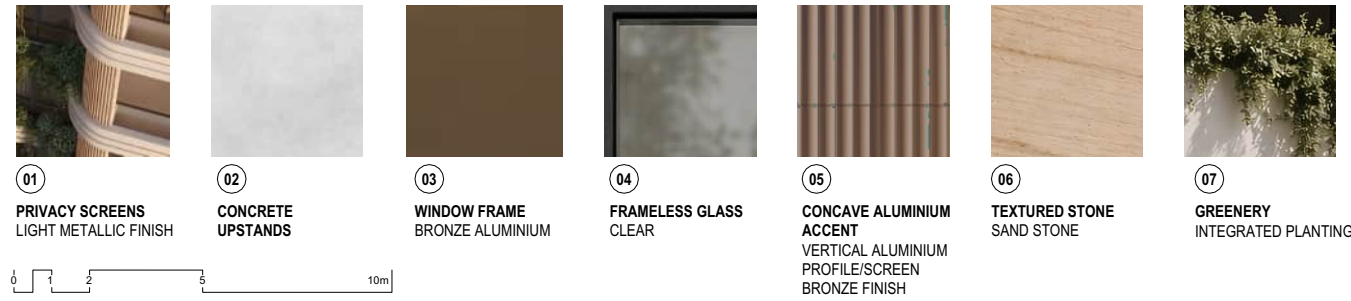
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08
GLASS BALUSTRADE
FRAMELESS TRANSPARENT
GLASS

Transmittal Set

Project: OURIMBAH RD, MOSMAN NSW 2088 I.E. LMR RFB

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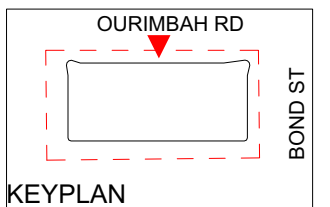
Drawing Title:
NORTH ELEVATION-
OURIMBAH RD

Revision:
A

Drawing No:
A131

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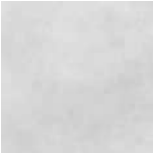
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EXTERNAL FINISHES LEGEND



01
PRIVACY SCREENS
LIGHT METALLIC FINISH



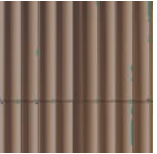
02
CONCRETE
UPSTANDS



03
WINDOW FRAME
BRONZE ALUMINIUM



04
FRAMELESS GLASS
CLEAR



05
CONCAVE ALUMINIUM
ACCENT
VERTICAL ALUMINIUM
PROFILE/SCREEN
BRONZE FINISH



06
TEXTURED STONE
SAND STONE



07
GREENERY
INTEGRATED PLANTING



08
GLASS BALUSTRADE
FRAMELESS TRANSPARENT
GLASS

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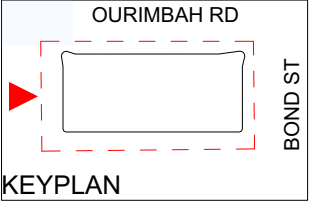
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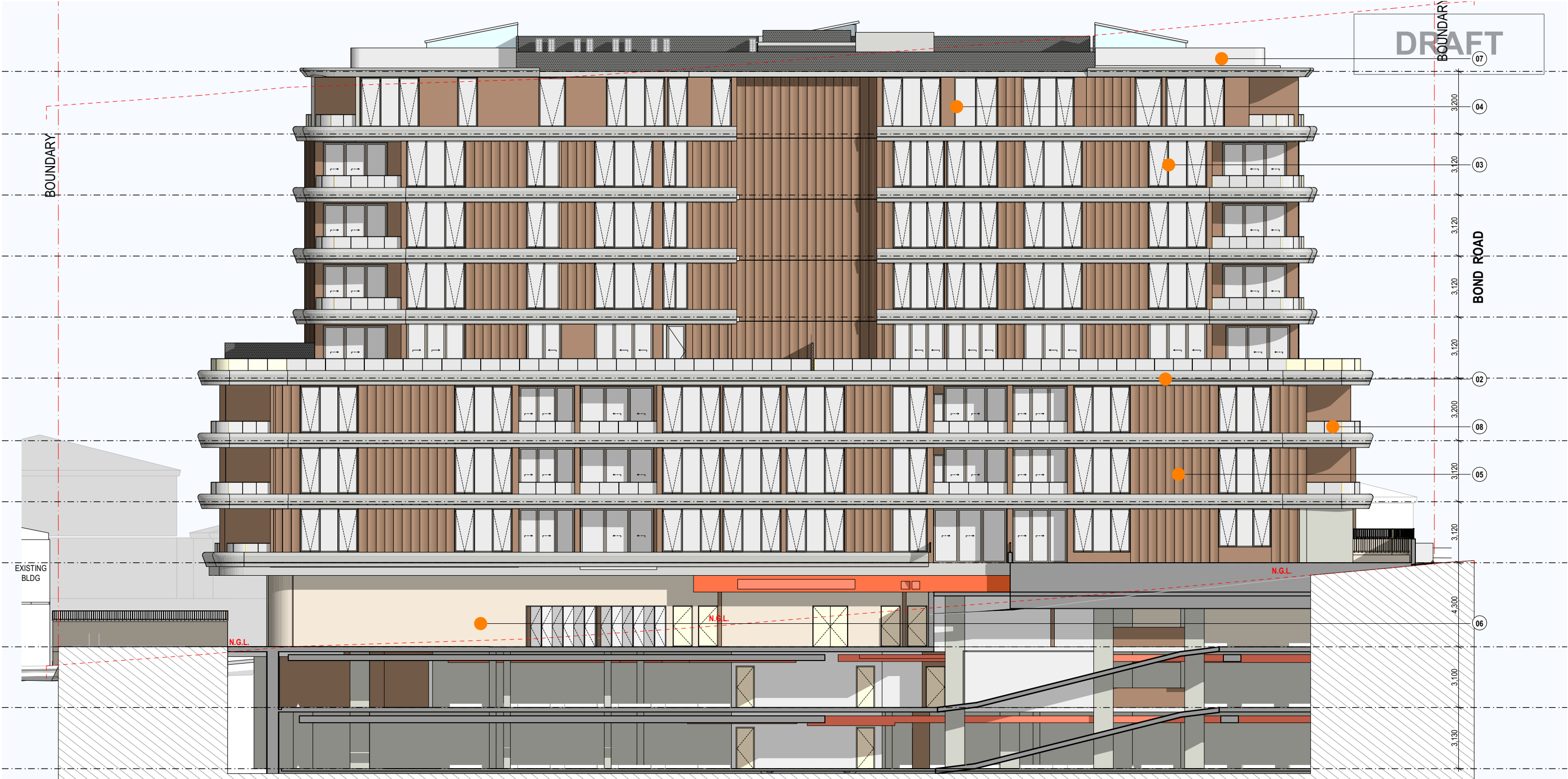
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A132



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EXTERNAL FINISHES LEGEND



- 01 PRIVACY SCREENS
LIGHT METALLIC FINISH
- 02 CONCRETE
UPSTANDS
- 03 WINDOW FRAME
BRONZE ALUMINIUM
- 04 FRAMELESS GLASS
CLEAR
- 05 CONCAVE ALUMINIUM
ACCENT
VERTICAL ALUMINIUM
PROFILE/SCREEN
BRONZE FINISH
- 06 TEXTURED STONE
SAND STONE
- 07 GREENERY
INTEGRATED PLANTING
- 08 GLASS BALUSTRADE
FRAMELESS TRANSPARENT
GLASS

0 1 2 5 10m

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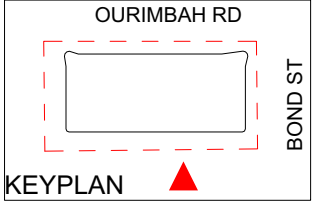
Drawing Title:
SOUTH ELEVATION

Revision:
A

Drawing No:
A133

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EXTERNAL FINISHES LEGEND



- 01 PRIVACY SCREENS
LIGHT METALLIC FINISH
- 02 CONCRETE
UPSTANDS
- 03 WINDOW FRAME
BRONZE ALUMINIUM
- 04 FRAMELESS GLASS
CLEAR
- 05 CONCAVE ALUMINIUM
ACCENT
VERTICAL ALUMINIUM
PROFILE/SCREEN
BRONZE FINISH
- 06 TEXTURED STONE
SAND STONE
- 07 GREENERY
INTEGRATED PLANTING
- 08 GLASS BALUSTRADE
FRAMELESS TRANSPARENT
GLASS

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Revision:

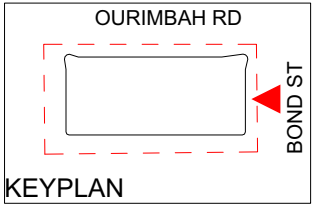
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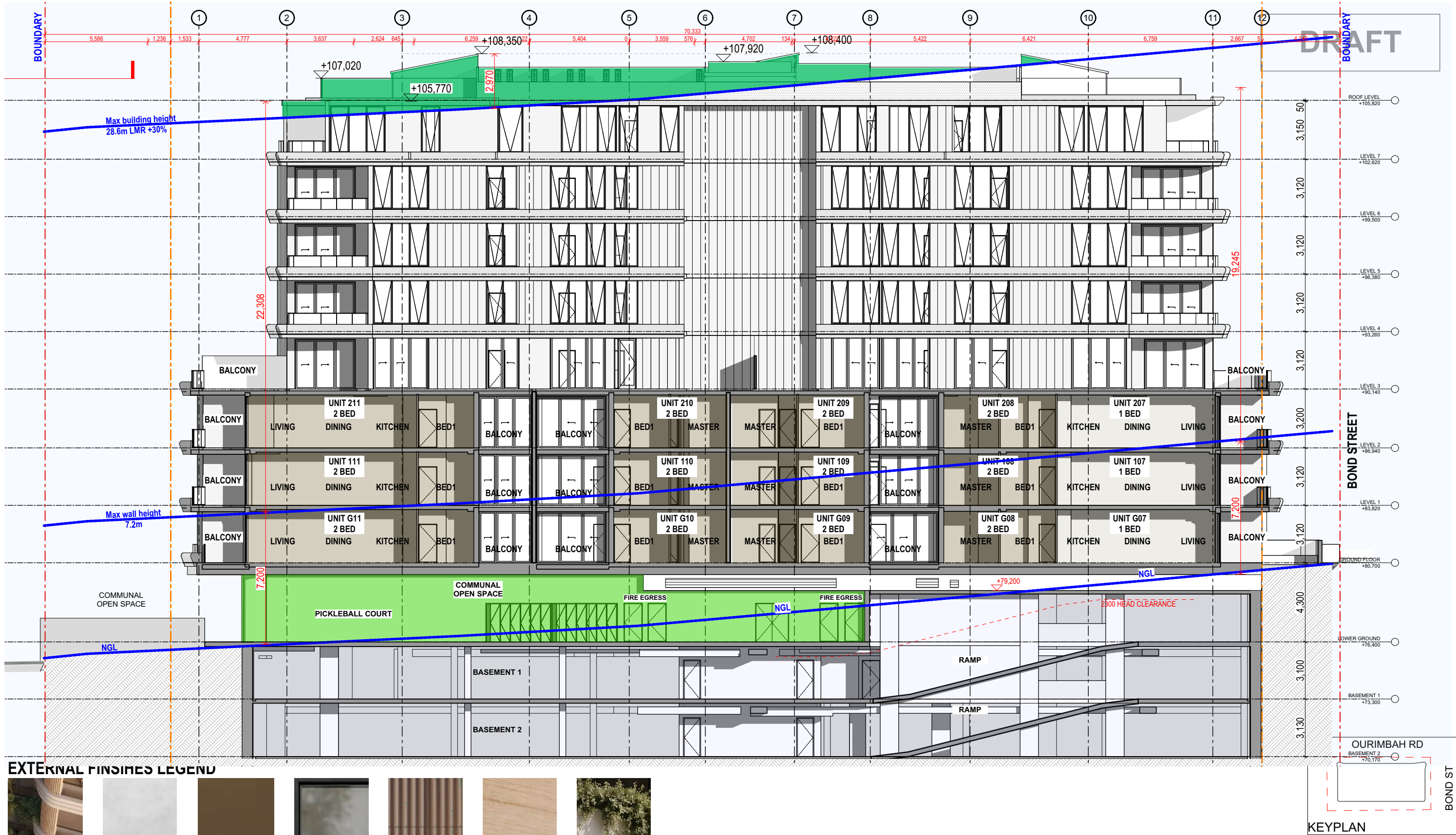
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Design Practitioner Pavlo Doroch DEP0000219





EXTERNAL FINISHES LEGEND



- 01 PRIVACY SCREENS
LIGHT METALLIC FINISH
- 02 CONCRETE
UPSTANDS
- 03 WINDOW FRAME
BRONZE ALUMINIUM
- 04 FRAMELESS GLASS
CLEAR
- 05 CONCAVE ALUMINIUM
ACCENT
VERTICAL ALUMINIUM
PROFILE/SCREEN
BRONZE FINISH
- 06 TEXTURED STONE
SAND STONE
- 07 GREENERY
INTEGRATED PLANTING
- 08 GLASS BALUSTRADE
FRAMELESS TRANSPARENT
GLASS

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Drawing Title:
SECTION 01

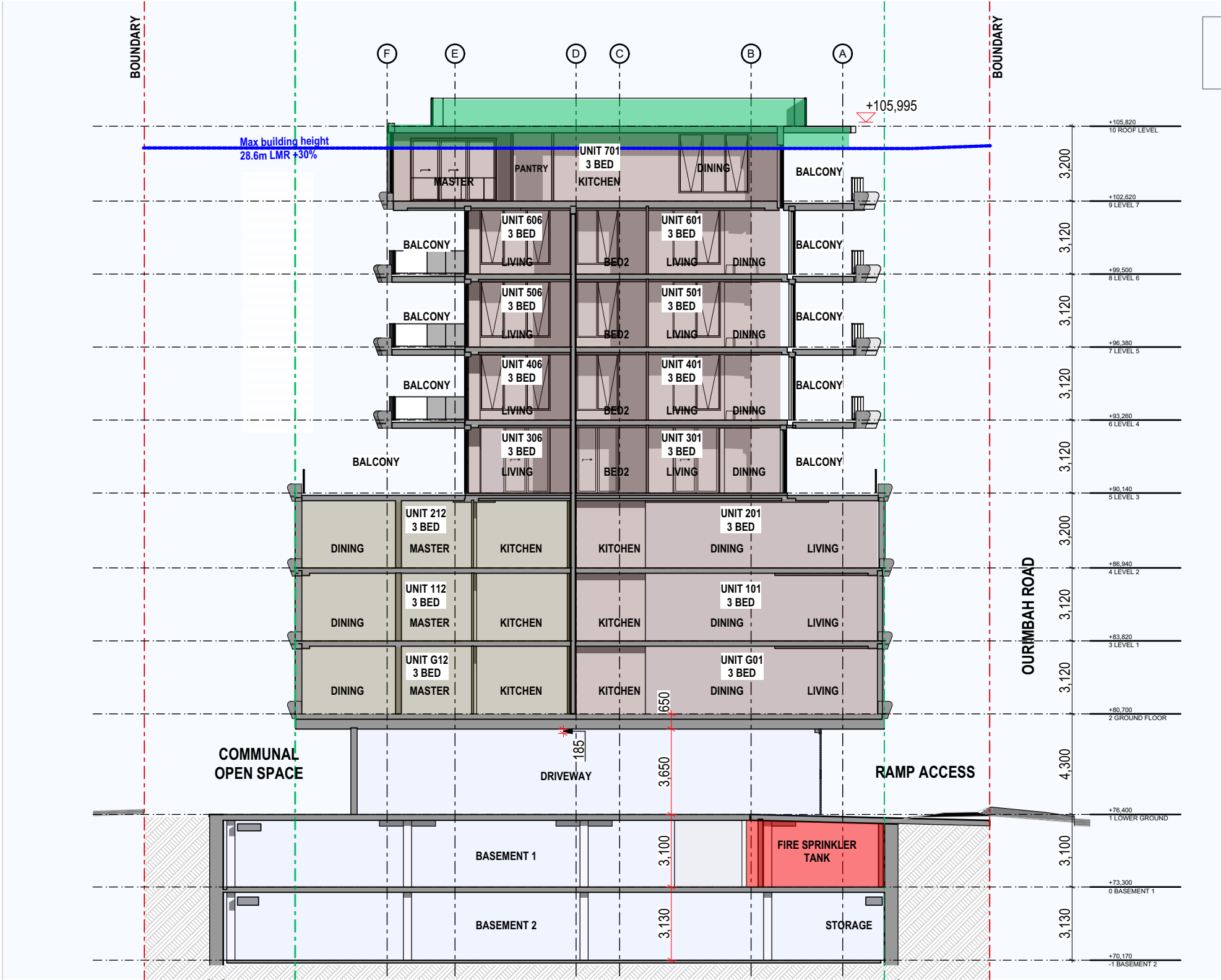
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A141

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Design Practitioner Pavlo Doroch DEP0000219

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EXTERNAL FINISHES LEGEND



- 01 PRIVACY SCREENS
LIGHT METALLIC FINISH
- 02 CONCRETE
UPSTANDS
- 03 WINDOW FRAME
BRONZE ALUMINIUM
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CLEAR
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ACCENT
VERTICAL ALUMINIUM
PROFILE/SCREEN
BRONZE FINISH
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SAND STONE
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INTEGRATED PLANTING

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FRAMELESS TRANSPARENT
GLASS

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AUSTRALIA

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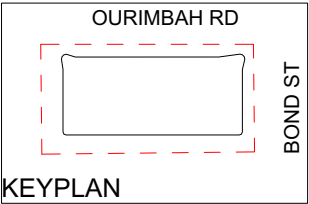
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SECTION 02

Revision:
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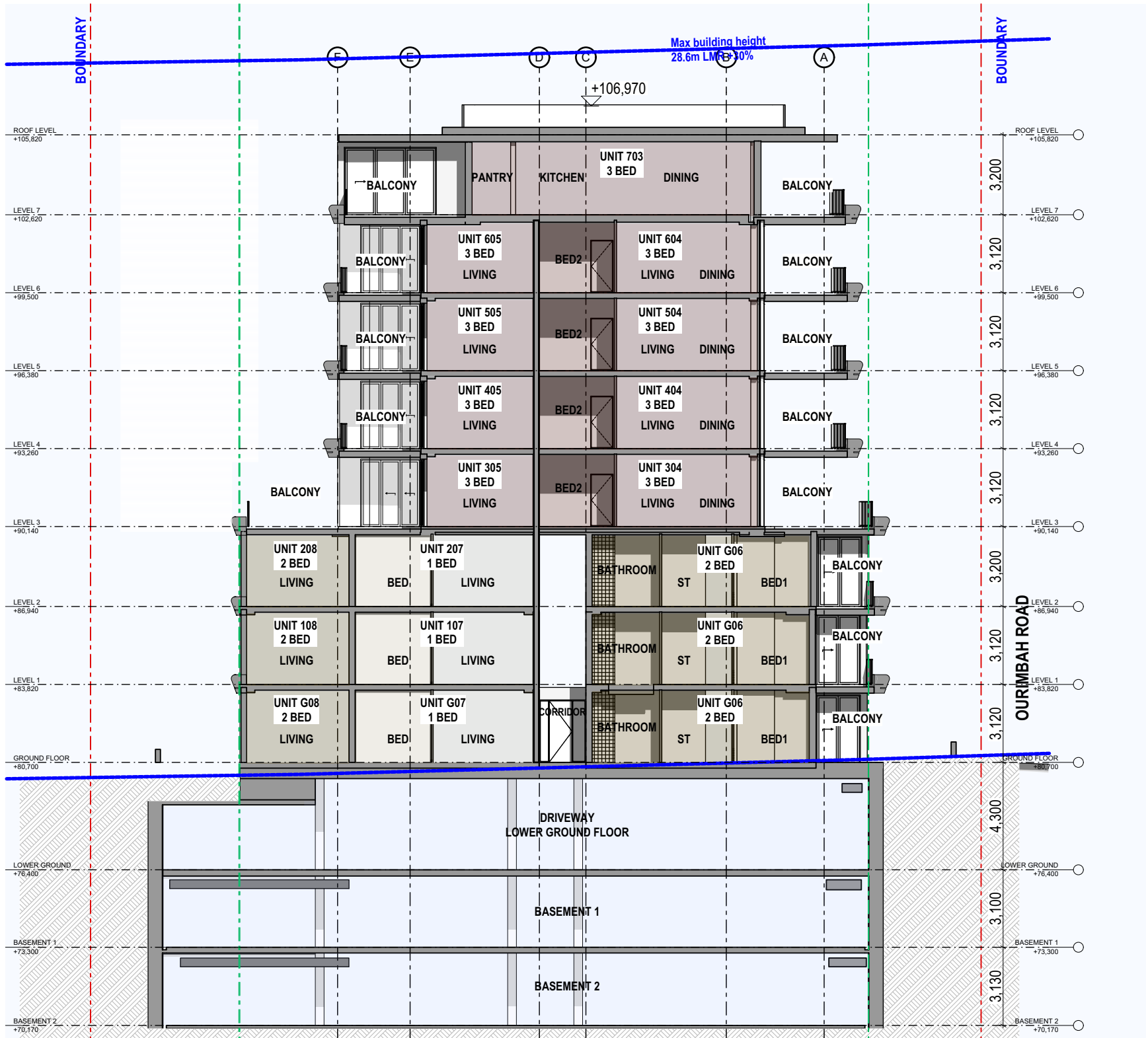
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A142

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Design Practitioner Pavlo Doroch DEP0000219



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EXTERNAL FINISHES LEGEND



- 01 PRIVACY SCREENS
LIGHT METALLIC FINISH
- 02 CONCRETE
UPSTANDS
- 03 WINDOW FRAME
BRONZE ALUMINIUM
- 04 FRAMELESS GLASS
CLEAR
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INTEGRATED PLANTING

- 08 GLASS BALUSTRADE
FRAMELESS TRANSPARENT
GLASS

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Project: OURIMBAH RD, MOSMAN NSW 2088 I.E. LMR RFB

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Drawing Title:
SECTION 04

Revision:

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Drawing No:

A144

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4. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT CONSULTANT DRAWINGS AND SPECIFICATIONS.

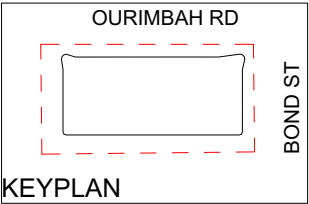
5. INFORM THE ARCHITECT OF ANY DISCREPANCIES

6. THE WORK IS TO BE COMPLETED IN ACCORDANCE WITH THE NATIONAL CONSTRUCTION CODE OF AUSTRALIA, AUSTRALIAN STANDARDS, SAA CODES AND ALL RELEVANT CONDITIONS BY-LAW.

7. THE BUILDING / MANUFACTURER SHALL CHECK AND VERIFY ALL DIMENSIONS, RL, GROUND LINES AND CONSTRUCTION METHODS PRIOR TO COMMENCEMENT OF WORK.

8. A COPY OF THIS PLAN IS TO BE SUBMITTED BY THE PROPRIETOR TO THE WATERBOARD FOR APPROVAL AS REQUIRED BY THE LOCAL COUNCIL.

9. THIS DRAWING IS PROTECTED BY COPYRIGHT. IT MAY ONLY BE USED FOR THE PURPOSE FOR WHICH IT IS ISSUED.



Appendix C – Groundwater Bore Search

WaterNSW

Work Summary

GW111483

Licence: 10BL604481	Licence Status: CANCELLED
Authorised Purpose(s): MONITORING BORE Intended Purpose(s): MONITORING BORE	
Work Type: Bore	
Work Status: Equipped	
Construct.Method: Auger - Solid	
Owner Type: Private	
Commenced Date:	Final Depth: 5.00 m
Completion Date: 19/03/2011	Drilled Depth: 5.00 m
Contractor Name: (None)	
Driller: Daniel Giles Fox	
Assistant Driller:	
Property: S M A MOTORS P / L 491 Military Rd MOSMAN 2088 NSW	Standing Water Level (m): 3.680
GWMA:	Salinity Description:
GW Zone:	Yield (L/s): 0.083

Site Details

Site Chosen By:			
Region: 10 - Sydney South Coast		County	Parish
River Basin: - Unknown		Form A: CUMBERLAND	WILLOUGHB
Area/District:		Licensed: CUMBERLA	WILLOUGH
Elevation: 0.00 m (A.H.D.)		CMA Map:	Cadastre
Elevation Source: Unknown		Grid Zone:	1///1130557
GS Map: -			Whole Lot 1///1130557
		Northing: 6255884.000	Latitude: 33°49'28.9"S
		Easting: 336903.000	Longitude: 151°14'15.4"E
		MGA Zone: 56	Scale:
		Coordinate Source: Unknown	

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	5.00	0			Auger - Solid Flight
1		Annulus	Bentonite/Grout	1.00	1.50				
1		Annulus	Waterworn/Rounded	1.50	5.00				Graded
1	1	Casing	Pvc Class 18	0.00	2.00	50	46		Cemented, Screwed
1	1	Opening	Slots - Horizontal	2.00	5.00	50		0	Casing - Machine Slotted, PVC Class 18, Screwed

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)
2.68	5.00	2.32	Unknown	3.68		0.08		00:06:00	

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	FILL,CONCRETE CORE	Fill	
0.20	1.45	1.25	CLAY NATURAL,RED,DRY,NON PLASTIC	Clay	
1.45	2.60	1.15	CLAY RED WITH WHITE MOTTLING.PLASTIC	Clay	
2.60	5.00	2.40	CLAY STIFF,RED,NON PLASTIC	Clay	

*** End of GW111483 ***

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.

WaterNSW

Work Summary

GW111484

Licence:	10BL604481	Licence Status:	CANCELLED
Authorised Purpose(s): MONITORING BORE Intended Purpose(s): MONITORING BORE			
Work Type:	Bore		
Work Status:	Equipped		
Construct.Method:	Auger - Solid		
Owner Type:	Private		
Commenced Date:		Final Depth:	10.00 m
Completion Date:	19/03/2011	Drilled Depth:	10.00 m
Contractor Name:	(None)		
Driller:	Daniel Giles Fox		
Assistant Driller:			
Property:	S M A MOTORS P / L 491 Military Rd MOSMAN 2088 NSW	Standing Water Level (m):	6.030
GWMA:		Salinity Description:	
GW Zone:		Yield (L/s):	0.090

Site Details

Site Chosen By:			
	County Form A: CUMBERLAND Licensed: CUMBERLA	Parish WILLOUGHB WILLOUGH	Cadastre 1 1130557 Whole Lot 1//1130557
Region:	10 - Sydney South Coast	CMA Map:	
River Basin:	- Unknown	Grid Zone:	
Area/District:		Scale:	
Elevation:	0.00 m (A.H.D.)	Northing:	6255885.000
Elevation Source:	Unknown	Easting:	336908.000
		Latitude:	33°49'28.9"S
		Longitude:	151°14'15.6"E
GS Map:	-	MGA Zone:	56
		Coordinate Source:	Unknown

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	2.80	0			Auger - Solid Flight
1		Hole	Hole	2.80	10.00	0			Rotary - Percussion (Down Hole H
1		Annulus	Bentonite/Grout	6.00	6.50				
1		Annulus	Waterworn/Rounded	6.50	10.00				Graded
1	1	Casing	Pvc Class 18	0.00	7.00	50	46		Cemented, Screwed
1	1	Opening	Slots - Horizontal	7.00	10.00	50		0	Casing - Machine Slotted, PVC Class 18, Screwed

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)
0.00	0.00	0.00	Unknown	6.03		0.09		00:10:00	

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.10	0.10	FILL CONCRETE CORE	Fill	
0.10	2.30	2.20	CLAY NATURAL,RED,DRY,PLASTIC	Clay	
2.30	2.70	0.40	CLAY RED AND WHITE HARD,STIFF,MOIST	Clay	
2.70	4.40	1.70	SANDSTONE,RED AND WHITE BANDS.MOIST M/GRAINED	Sandstone	
4.40	7.00	2.60	SHALE.LIGHT GREY,MOIST,DRY	Shale	
7.00	10.00	3.00	SANDSTONE BROWN AND GREY,DRY	Sandstone	

*** End of GW111484 ***

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.

WaterNSW

Work Summary

GW111485

Licence: 10BL604481	Licence Status: CANCELLED
Authorised Purpose(s): MONITORING BORE Intended Purpose(s): MONITORING BORE	
Work Type: Bore	
Work Status: Equipped	
Construct.Method: Auger - Solid	
Owner Type: Private	
Commenced Date:	Final Depth: 10.00 m
Completion Date: 19/03/2011	Drilled Depth: 10.00 m
Contractor Name: (None)	
Driller: Daniel Giles Fox	
Assistant Driller:	
Property: S M A MOTORS P / L 491 Military Rd MOSMAN 2088 NSW	Standing Water Level (m): 5.940
GWMA:	Salinity Description:
GW Zone:	Yield (L/s): 0.090

Site Details

Site Chosen By:			
Region: 10 - Sydney South Coast		County	Parish
River Basin: - Unknown		Form A: CUMBERLAND	WILLOUGHB
Area/District:		Licensed: CUMBERLA	WILLOUGH
Elevation: 0.00 m (A.H.D.)		CMA Map:	Cadastre
Elevation Source: Unknown		Grid Zone:	1//1130557
GS Map: -			Whole Lot 1//1130557
		Northing: 6255888.000	Latitude: 33°49'28.8"S
		Easting: 336905.000	Longitude: 151°14'15.4"E
		MGA Zone: 56	Scale:
		Coordinate Source: Unknown	

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	2.70	0			Auger - Solid Flight
1		Hole	Hole	2.70	10.00	0			Rotary - Percussion (Down Hole H
1		Annulus	Bentonite/Grout	6.00	6.50				
1		Annulus	Waterworn/Rounded	6.50	10.00				Graded
1	1	Casing	Pvc Class 18	0.00	7.00	50	46		Cemented, Screwed
1	1	Opening	Slots - Horizontal	7.00	10.00	50		0	Casing - Machine Slotted, PVC Class 18, Screwed

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)
0.00	0.00	0.00	Unknown	5.94		0.09		00:26:00	

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	FILL CONCRETE CORE	Fill	
0.20	2.30	2.10	CLAY NATURAL RED,DRY PLASTIC	Clay	
2.30	2.70	0.40	CLAY RED AND WHITE,HARD,STIFF,MOIST	Clay	
2.70	4.40	1.70	SANDSTONE RED AND WHITE BANDS,M/GRAINED	Sandstone	
4.40	7.00	2.60	SHALE.LIGHT GREY,MOIST,DRY	Shale	
7.00	10.00	3.00	SANDSTONE,BROWN AND GREY	Sandstone	

*** End of GW111485 ***

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.

State Overview

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Groundwater (Telemetered data)

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[Real Time Data - Bores](#)

All Groundwater Site details

[search](#) [download sites](#) [find a site](#)

[search by licence](#)

[All Groundwater Map](#)

Meteorology

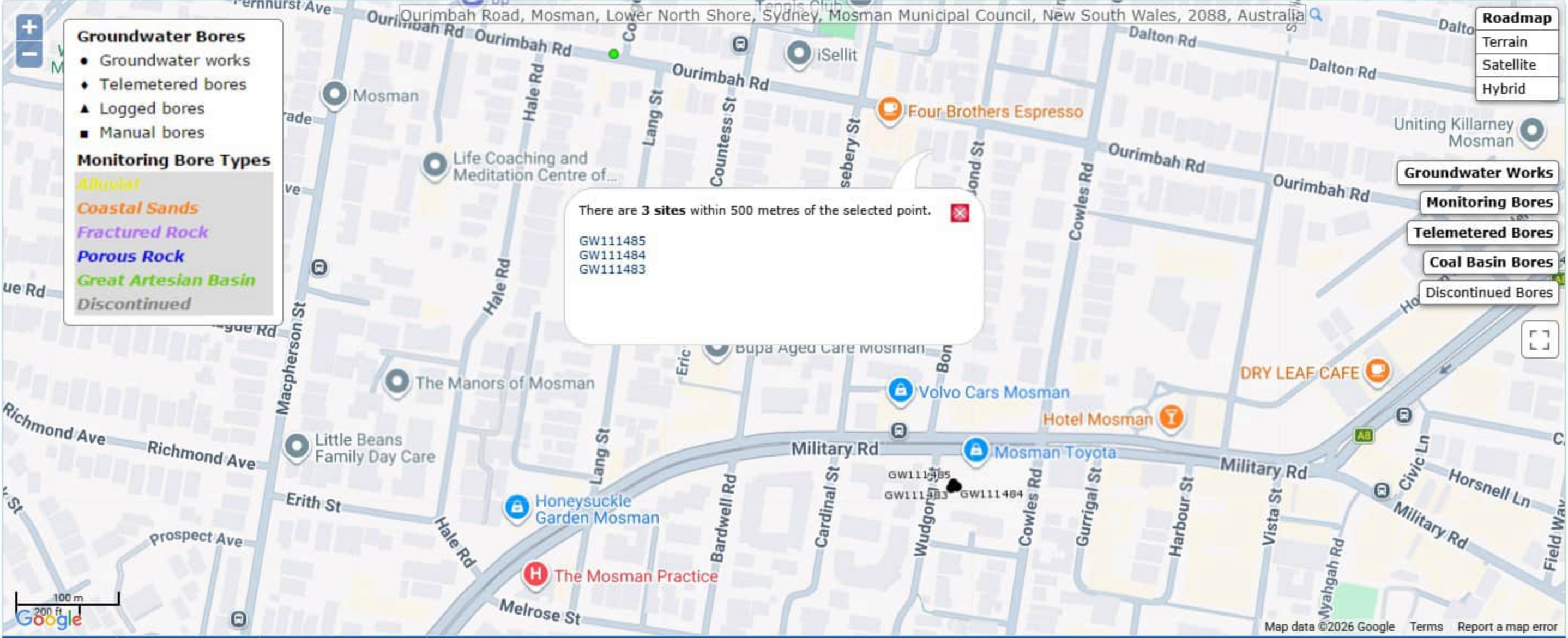
All Groundwater Site Details

ALL GROUNDWATER MAP

All data times are Eastern Standard Time

[Map](#) [Info](#)

current site: GW111484



[bookmark this page](#)

Appendix D – Site Photographs



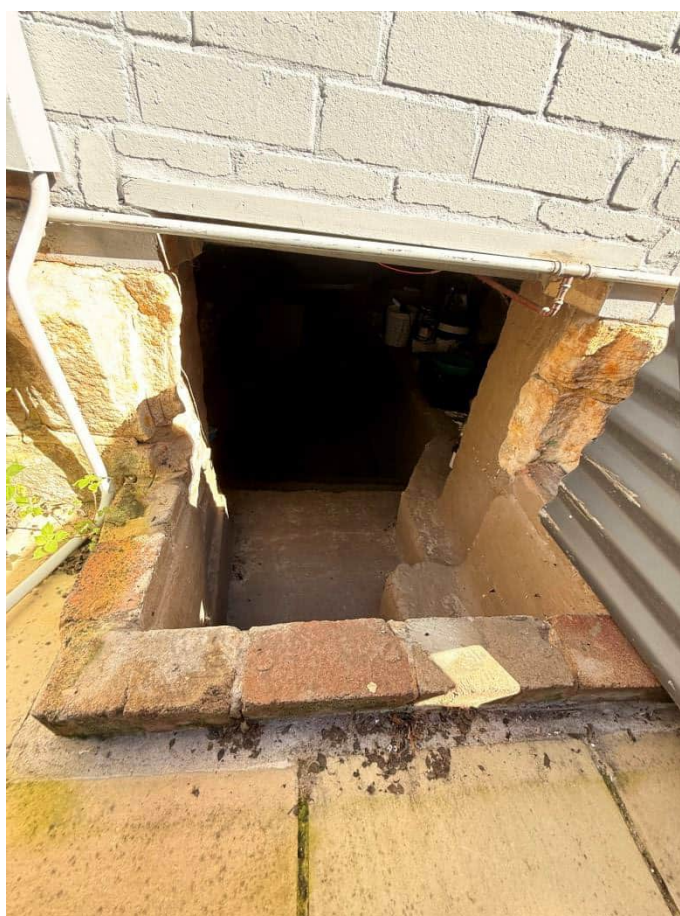
Photograph 1: Eastern boundary of the site (15 April 2026).



Photograph 2: 40–42 Ourimbah Road, Mosman (15 April 2026).



Photograph 3: Backyard of 42 Ourimbah Road (15 April 2026).



Photograph 4: Basement noted at 44 Ourimbah Road (15 April 2026).



Photograph 5: 46 Ourimbah Road (15 April 2026).



Photograph 6: 48 Ourimbah Road (15 April 2026).



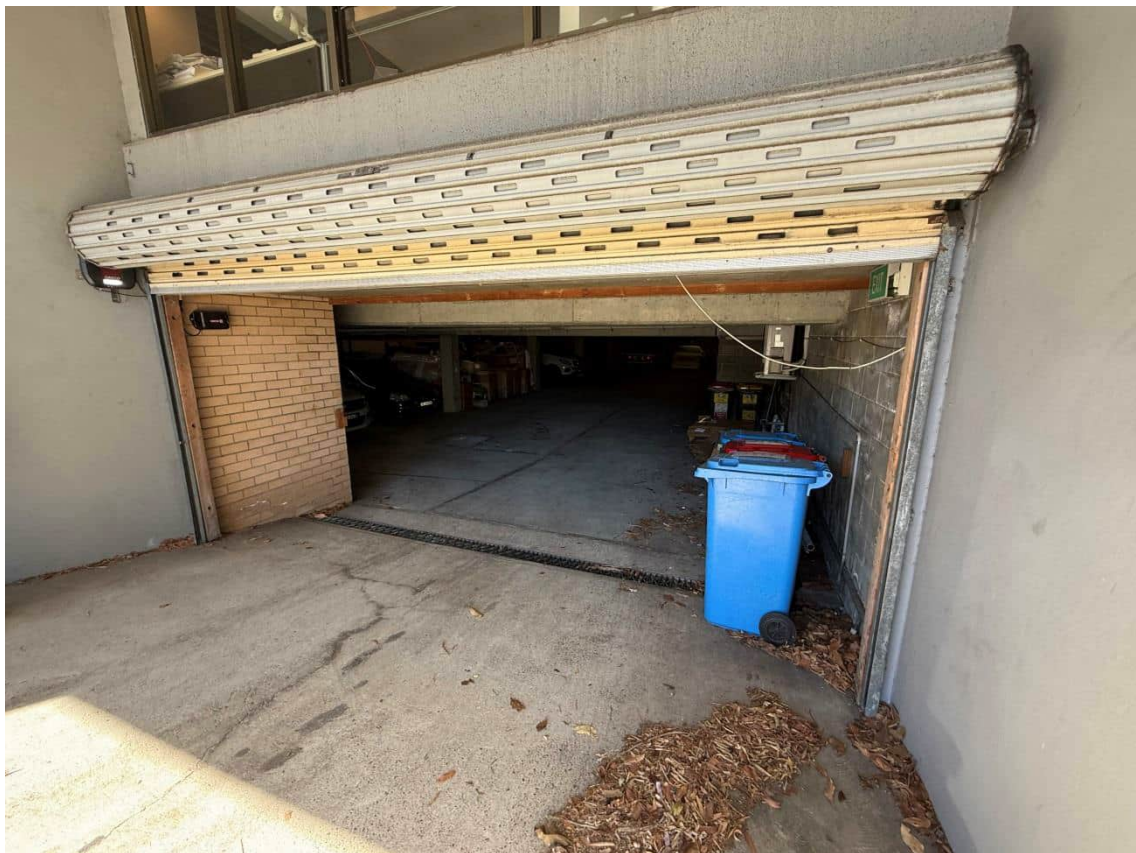
Photograph 7: 48 Ourimbah Road (15 April 2026).



Photograph 8: 50 Ourimbah Road (15 April 2026).



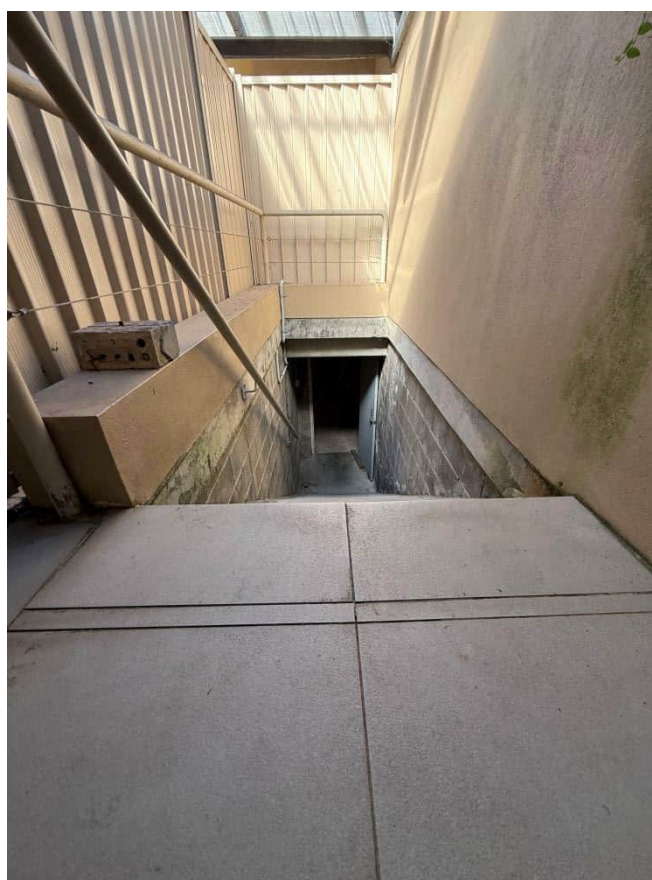
Photograph 9: 52 Ourimbah Road (15 April 2026).



Photograph 10: Basement at the front portion of 52 Ourimbah Road (15 April 2026).



Photograph 11: Gap between front and rear structures, 52 Ourimbah Road (15 April 2026).



Photograph 12: Basement at the rear portion of 52 Ourimbah Road (15 April 2026).



Photograph 13: Timber shed located at 56 Ourimbah Road (15 April 2026).

Appendix E – Historical Property Title Search



Title Search NSW

30/04/2026 12:14 PM

Client Reference: DI-E27082-Mosman

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 3/2/2864

SEARCH DATE	TIME	EDITION NO	DATE
30/4/2026	12:14 PM	5	31/5/2018

LAND

LOT 3 OF SECTION 2 IN DEPOSITED PLAN 2864

LOCAL GOVERNMENT AREA MOSMAN

PARISH OF WILLOUGHBY COUNTY OF CUMBERLAND

TITLE DIAGRAM DP2864

FIRST SCHEDULE

DELFRAN PTY LIMITED (T AD618468)

SECOND SCHEDULE (2 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 AN258909 LEASE TO NCYC DESIGN PTY LIMITED (SEE AN258918) OF
SHOP 1, 52 OURIMBAH ROAD, MOSMAN. EXPIRES: 31/3/2021.
OPTION OF RENEWAL: 3 YEARS.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***



DI-E27082-Mosman

PRINTED ON 30/4/2026

* 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

30/04/2026 12:15 PM

Client Reference: DI-E27082-Mosman

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

30/4/2026 12:15PM

FOLIO: 3/2/2864

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 9930 FOL 165

Recorded	Number	Type of Instrument	C.T. Issue
5/8/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
10/1/1991		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
29/6/1992	E566610	VARIATION OF LEASE	
29/6/1992	E566611	LEASE	EDITION 1
1/3/1994	U68332	LEASE	
1/3/1994	U68333	LEASE	EDITION 2
5/3/1999	5652590	DISCHARGE OF MORTGAGE	
5/3/1999	5652591	MORTGAGE	EDITION 3
6/12/2007	AD618467	DISCHARGE OF MORTGAGE	
6/12/2007	AD618468	TRANSFER	EDITION 4
30/5/2018	AN258909	LEASE	
31/5/2018	AN258918	TRANSFER OF LEASE	EDITION 5

*** END OF SEARCH ***



30/04/2026 12:18 PM

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Form: 01T
Release: 3.3
www.lands.nsw.gov.au

TRANSFER

New South Wales
Real Property Act 1900

AD618468Y

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

Office of State Revenue

NSW Treasury

Client No: 1249798

526

Duty: \$2.00

Trans No: 4594449

Asst details: TS

(A) FOLIO OF THE REGISTER

FOLIO IDENTIFIER 3/2/2864

(B) LODGED BY

Document
Collection
Box

4865

Name, Address or DX, Telephone, and LLPN if any

LLPN: 123346x

Legal
Crown

Reference:

L - PT IRONS

CODES

T

TW

(Sheriff)

(C) TRANSFEROR

DAVID ELSWORTHY LESTER

(D) **CONSIDERATION** The transferor acknowledges receipt of the consideration of \$ 1,530,000.00 and as regards

(E) **ESTATE** the above folio of the Register transfers to the transferee an estate in fee simple

(F) **SHARE TRANSFERRED** whole

(G) Encumbrances (if applicable):

(H) TRANSFEREE

DELFRAN PTY LIMITED (ACN 065 199 340)

(I) **TENANCY:**

DATE

(J) I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of witness:

Phillip Mathias

Signature of transferor:

[Signature]

Name of witness:

PHILLIP MATHIAS

Address of witness:

17 NENAGH ST
NORTH MANLY 2100

Certified correct for the purposes of the Real Property Act 1900 and executed on behalf of the corporation named below by the authorised person(s) whose signature(s) appear(s) below pursuant to the authority specified.

Corporation: DELFRAN PTY LIMITED

Authority: section 127 of the Corporations Act 2001

Signature of authorised person:

[Signature]

Signature of authorised person:

[Signature]

Name of authorised person:

DAVID ELSWORTHY LESTER

Office held:

DIRECTOR

Name of authorised person:

FRANCES MARY LESTER

Office held:

DIRECTOR



DI-E27082-Mosman

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30/04/2026 12:24 PM

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C
STATE OF TITLE
PROPERTY ACT, 1900



09930165

NEW SOUTH WALES

Vol. 9930 Fol. 165

First Title Old System
Prior Title Vol. 2382 Fol. 90



7 7 1987

I certify that the person named in the First Schedule is the registered proprietor of an estate in fee simple (or such other estate or interest as is set out below) in the land described subject to the recordings appearing in the Second Schedule and to the provisions of the Real Property Act, 1900.

[Signature]
Registrar General.



CANCELLED

LAND REFERRED TO

SEE AUTO FOLIO

S Lot 3 of Section 2 in DP2864 in the Municipality of Mosman Parish of Willoughby County of Cumberland.

Title Diagram: DP2864.

FIRST SCHEDULE

~~SAM HERFORD & SON PTY. LIMITED.~~ L240927
~~David Elsworthy Lester by Transfer X330347. Registered 29-1-1988.~~
David Elsworthy Lester by Transfer X330347. Registered 29-1-1988.

SECOND SCHEDULE

- GRY
1. Reservations and conditions in the Crown grant.
 - ~~2. V447152 Mortgage to Trade Credits Limited. X 217010~~
 - L ~~3. W906959 Lease to Soundplan Broadcasting Services Pty. Ltd. of Unit 2, 52 Ourimbah Road, Mosman. Expires 24-7-1989. Option of renewal 3-1-1990. Y534603, 9-11-1989~~

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON
(Page 1) Vol. 9930 Fol. 165

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



FIRST SCHEDULE (continued)
REGISTERED PROPRIETOR

Registrar General

CANCELLED

SEE AUTO 4010

SECOND SCHEDULE (continued)

PARTICULARS

Registrar General

CANCELLATION

L W917137 please to Keith Blaxter & Associates Pty Limited of premises being Unit 4, 52 Ourimbah Road, Mosman. Expires 14.12.1989 with an option of renewal for 3 years. Registered 16.7.1987

X217011 Caveat by David Cleworth Esq. Registered 22-1-1988
M X330348 Mortgage to Kimo Properties Pty Limited and Eleanor Beckerleg as tenants in common. Registered 29-1-1988

U(4)W906959P Lease X770220 Transfer of Lease to Chris Pilz Photography Pty. Limited Registered-18-8-1988;

* Y288509P Caveat by Michael Tonerrey Sh. Schulz. Registered
4-5-1989

L Y534603^P Lease to Chris Pilz Photography Pty. Limited of premises being Unit 2, first floor, 52 Ourimbah Road, Mosman. Expires 24-7-1992. Registered 9-11-1989

Y725823^P Lease to Paterson & Associates Event Management Pty. Limited of premises being Unit 3, 52 Ourimbah Road, Mosman. Expires 8-10-1992. Option of renewal 3 years. Registered 27-11-1989.

NOTATIONS AND UNREGISTERED DEALINGS

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

CERTIFICATE OF TITLE

REAL PROPERTY ACT, 1900, as amended.

TORRENS TITLE
CANCELLED
Register Book

NEW SOUTH WALES

Application No. 645

Prior Title Vol. 2382 Fol. 90



See new edition
Vol. 9930 Fol. 165
CANCELLED
1st Edition issued 18-2-1965
EH J856696

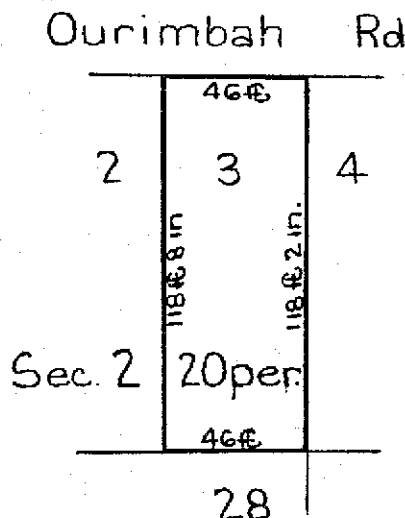
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness

Registrar General.



PLAN SHOWING LOCATION OF LAND



J856696 J.D.

Scale: 60 feet to one inch.

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 3 of Section 2 in Deposited Plan 2864 in the Municipality of Mosman Parish of Willoughby and County of Cumberland being part of Allotment 2 of Section 6 granted to William Roberts on 27-6-1856.

Registrar General.

FIRST SCHEDULE (continued overleaf)

~~EDITH MAY PHIPPS, of West Pymble, Widow.~~

Registrar General.

SECOND SCHEDULE (continued overleaf)

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

Registrar General.

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT			ENTERED	Signature of Registrar General
	NATURE	NUMBER	DATE		
<i>Sam Herford & Son Pty Limited</i>	<i>Transfer</i>	<i>L240927</i>	<i>10.3.1968</i>	<i>4.2.1969</i>	<i>Jaworski</i>
CANCELLED See new edition issued <u>7-7-1987</u> <u>Vide</u> W906959 					

SECOND SCHEDULE (continued)

NATURE	INSTRUMENT		PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION		
	NUMBER	DATE						
<i>Mortgage</i>	<i>J856697</i>	<i>11.12.1964</i>	<i>to Southern Districts Starr-Bowkett Co-operative Building Society (N.S.W.) Limited</i>	<i>10.3.1965</i>	<i>Jaworski</i>	<i>Cancelled</i>	<i>L240927</i>	<i>Jaworski</i>
<i>Mortgage</i>	<i>J856698</i>	<i>11.12.1964</i>	<i>to Southern Districts Starr-Bowkett Co-operative Building Society (N.S.W.) Limited</i>	<i>10.3.1965</i>	<i>Jaworski</i>	<i>Cancelled</i>	<i>L240927</i>	<i>Jaworski</i>
<i>Mortgage</i>	<i>J856699</i>	<i>11.12.1964</i>	<i>to Southern Districts Credit Union Co-operative Society Limited</i>	<i>10.3.1965</i>	<i>Jaworski</i>	<i>Cancelled</i>	<i>L240927</i>	<i>Jaworski</i>
<i>Mortgage</i>	<i>J856700</i>	<i>11.12.1964</i>	<i>to James Richard Millwood, Public Servant and Willicent Catherine Ann Millwood, Housewife both of Murrumbidgee in the Australian Capital Territory</i>	<i>10.3.1965</i>	<i>Jaworski</i>	<i>Cancelled</i>	<i>L240927</i>	<i>Jaworski</i>
<i>Mortgage</i>	<i>L240928</i>	<i>28.10.1968</i>	<i>to the Commercial Banking Company of Sydney Limited</i>	<i>4.2.1969</i>	<i>Jaworski</i>	<i>Discharged</i>	<i>L873490</i>	<i>Jaworski</i>
<i>Mortgage</i>	<i>L873491</i>	<i>20.6.1969</i>	<i>to Premier Apartments Pty. Limited</i>	<i>23.7.1970</i>	<i>Jaworski</i>	<i>Discharged</i>	<i>M701015</i>	<i>Jaworski</i>
<i>Mortgage</i>	<i>M701016</i>	<i>7.3.1972</i>	<i>to Austral Pacific Finance Company Pty. Limited</i>	<i>8.5.1972</i>	<i>Jaworski</i>	<i>Discharged</i>	<i>P207034</i>	<i>Jaworski</i>
<i>Variation</i>	<i>N51006</i>	<i>8.12.1972</i>	<i>of Mortgage No. M701016 pursuant to Section 41 of the Conveyancing Act 1919</i>	<i>14.2.1973</i>	<i>Jaworski</i>	<i>Cancelled</i>	<i>P207034</i>	<i>Jaworski</i>
<i>Mortgage</i>	<i>P207035</i>	<i>28.2.1975</i>	<i>to Bank of New South Wales</i>	<i>8.4.1975</i>	<i>Jaworski</i>	<i>Discharged</i>	<i>V447151</i>	<i>Jaworski</i>

V447152 Mortgage to Trade Credits Limited Registered 23-11-1984
W906959 Lease to Soundplan Broadcasting Services Pty. Ltd., of Unit 2, 52 Ourimbah Road, Mosman. Expires: 24.7.1989.
With an Option of Renewal for 3 years. Registered 18.6.1987.

J856697 R
8 R
9 R
10 R
L240927 TP/S
6 R
L873490 M
N 51006 M
M701015 M
16 M
N51006 M
P207034 M
5 M
V447151 DM
2 M
N906959 L
W917137 L
HLIC
H9

Appendix F – Groundwater Quality Assessment

22 June 2026
Ref. E27082.E01 Appendix F

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PYRMONT, NSW, 2009

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**Re: Groundwater Quality Assessment;
Residential Flat Building with Infill Affordable Housing at 40-56
Ourimbah Road, Mosman NSW**

1. Introduction

Ourimbah Developments Pty Ltd ('the client') engaged EI Australia (EI) to undertake a preliminary site investigation (PSI) at the property located at 40-56 Ourimbah Road, Mosman NSW ('the site'). As part of the PSI, an assessment of groundwater quality was conducted to characterise groundwater conditions underneath the site and to assess the potential presence, nature and extent of contamination that may be present.

The site is located approximately 6.4km north-east of the Sydney central business district, within the local government area of Mosman Municipal Council. At the time of this investigation, the site was occupied by a mix of residential and commercial buildings.

This letter report summarises the findings of the groundwater assessment based on groundwater samples collected from three monitoring wells (BH1M, BH3M and BH4M), installed as part of the geotechnical investigation conducted concurrently with this assessment (**Figure 2, Appendix A**).

2. Methodology

2.1 Scope of Works

The following scope of works was undertaken for the assessment:

- One round of groundwater monitoring event (GME), including groundwater level gauging and sampling from three groundwater monitoring wells (BH1M, BH3M and BH4M);
- Laboratory analysis of selected groundwater samples for the chemicals of potential concern; and
- Data interpretation and reporting.

2.2 Laboratory Analysis

Three groundwater samples (BH1M-1, BH3M-1 and BH4M-1) were submitted to a NATA-accredited environmental laboratory for analysis of a range of analytes, including:

- Priority Metals (PM) - arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc;
- Total Recoverable Hydrocarbons (TRHs);
- Volatile Organic Compounds (VOC); including
 - Benzene, Toluene, Ethylbenzene, Xylenes (BTEX); and
 - Chlorinated Volatile Organic Compounds (CVOC);
- Polycyclic Aromatic Hydrocarbons (PAHs);
- Phenols; and

- Per- and Poly- Fluoroalkyl Substances (PFAS).

2.3 Assessment Criteria

The assessment criteria adopted for this investigation were selected from available published guidelines that are endorsed by national or state regulatory authorities, with due consideration of the exposure scenario that is expected for the site, the likely exposure pathways, and the identified potential receptors. The adopted assessment criteria are outlined in **Table F2-1**.

For the purposes of this investigation, the adopted groundwater assessment criteria are referred to as Groundwater Investigation Levels (GILs).

Table F2-1 Adopted Investigation Levels for Groundwater

Media	Criteria	Rationale
Groundwater	ANZG (2018) GILs for Marine Water and NEPC (2013) Groundwater HSLs	Groundwater Investigation Levels (GILs) for Marine Waters ANZG (2018) provides GILs for typical, slightly-moderately disturbed aquatic ecosystems, Trigger Values (TVs) for the 95% level of protection of aquatic ecosystems; however, the 99% TVs were applied for the bio-accumulative analytes. The marine water criteria were considered relevant as the closest, potential surface water receptor is Quakers Hat Bay, which is approximately 670 m north of the site. As ANZG (2018) does not provide criteria for petroleum hydrocarbons, laboratory practical quantitation limits (PQLs) for individual TRH fractions were adopted as the GIL for aquatic ecosystems, as per the guidance provided in DEC (2007) <i>Guidelines for the Assessment and Management of Groundwater Contamination</i>. Health-based Screening Levels (HSLs) NEPC (2013) groundwater HSL-A & B thresholds for vapour intrusion in low - high density residential settings were applied to assess potential human health impacts from residual vapours resulting from petroleum, BTEX and naphthalene impacts, as a conservative approach. Coarse grained soil criteria were applied.
	NHMRC (2008) Recreational Water NHMRC (2025) Drinking Water	Recreational Criteria NHMRC (2008) Recreational Criteria were adopted; where no criteria are available, the lowest NHMRC (2025) Drinking Human health criteria (multiplied by a factor of 10) were used to represent a recreational exposure scenario.
	HEPA (2025) PFAS Marine Water	Groundwater Investigation Levels for PFAS The PFAS National Environmental Management Plan (NEMP) 3.1 provides guideline values for PFAS compounds in aquatic ecosystems. The slightly to moderately disturbed marine water ecosystems values (95% species protection) were adopted.

2.4 Groundwater Sampling

The groundwater investigation works are described in **Table F2-2**.

Table F2-2 Summary of Groundwater Sampling Methodology

Activity/Item	Details
Fieldwork	A GME, including water level gauging, well purging, field testing and groundwater sampling, was conducted on 28 May 2026 at three monitoring wells BH1M, BH3M and BH4M. A GME (without sampling) was also conducted at BH2M.
Well Construction	Monitoring wells were constructed in general accordance with NUDLC (2020) standards for environmental monitoring and involved the following:

Activity/Item	Details
	50mm, Class 18 uPVC, threaded, machine-slotted screen and casing. Screen intervals were installed to target groundwater-bearing/weathered rock and bedrock intervals; - base and top of each well was sealed with a uPVC cap; - annular, graded sand filter was placed around the screen interval of each well; - granular bentonite was applied above annular filter to seal the screened interval; and - surface completion comprised steel cover, with plastic cap.
Well Depth	Monitoring wells were installed as part of the geotechnical investigation conducted concurrently with this assessment, with bore logs presented in Attachment C. A summary of construction details is provided below: - BH1M: total well depth 8.50 mBGL, screen interval 5.50 to 8.50 mBGL; - BH2M: total well depth 6.50 mBGL, screen interval 3.50 to 6.50 mBGL (not sampled); - BH3M: total well depth 12.0 mBGL, screen interval 4.0 to 12.0 mBGL; and - BH4M: total well depth 6.0 mBGL, screen interval 1.50 to 6.0 mBGL.
Well Development	Well development was conducted immediately following installation. This involved agitation and water removal within the full length of the water column using a dedicated, HDPE, disposable bailer. Development was continued until no further reduction in suspected sediment was observed (i.e. after removal of several well volumes).
Well Gauging	Well headspace vapour was tested for the presence of accumulated VOCs using a calibrated, portable Photoionization Detector (PID). Monitoring wells were gauged to determine standing water levels (SWLs) prior to groundwater sampling using a water/oil interface probe. PID calibration form is provided in Attachment B .
Well Purging & Field Testing	The measurement of water quality parameters was conducted repeatedly during purging and the details were recorded onto field data sheets, until water quality parameters stabilised. During purging, field measurements for Dissolved Oxygen (DO), Electrical Conductivity (EC), temperature, oxidation-reduction potential (ORP) and pH of the purged water were recorded.
Groundwater Sampling	Groundwater samples were collected using a peristaltic low flow pump. Water was continuously measured for five parameters (Temperature, EC, ORP, DO, pH). Once three consecutive field measurements were recorded for purged water to within $\pm 10\%$ for DO, $\pm 3\%$ for EC, ± 0.2 units for pH, $\pm 0.2^\circ$ for temperature and ± 20 mV for ORP, this was considered to indicate that representative groundwater quality had been achieved and final physico-chemical measurements were recorded. Groundwater samples were then collected from the low flow sampling pump discharge point. Blind field duplicates were collected together with primary samples and placed into sample containers.
Decontamination Procedure	The water level probe was washed in a solution of potable water and <i>Decon 90</i> (or PFAS decon for PFAS sampling) and then rinsed with potable water.
Sample Preservation	Sample containers were supplied by the laboratory with the following preservatives: - one, 1 litre amber glass, acid-washed and solvent-rinsed bottle; - two, 40ml glass vials, pre-preserved with dilute hydrochloric acid, Teflon-sealed; - one, 250mL, HDPE bottle, pre-preserved with dilute nitric acid (1mL); and - one, PFAS bottle container. Samples for metals analysis were field-filtered using 0.45 μm pore-size membranes. All containers were filled with sample to the brim then capped and stored in insulated chests (containing ice bricks), until completion of the fieldwork and during sample transit to the laboratory.
Sample Transport	After sampling, the ice brick filled chests were transported to the laboratories using strict chain-of-custody (COC) procedures. Sample receipt advice (SRA) was provided by the laboratory to document sample condition upon receipt. Laboratory documentations are presented in Attachment D .
Laboratory Analysis and Quality Control	Groundwater samples were analysed by SGS and Envirolab for the potential contaminants. In addition to the split (inter-laboratory) field duplicate (analysed by Envirolab), QC testing comprised a blind (intra-laboratory) field duplicate, an equipment rinsate blank, a laboratory-prepared, trip spike water sample and a laboratory-prepared, trip blank water sample.

3. Results

3.1 Field Observations

A GME was conducted on 28 May 2026. Field data sheets are attached in **Attachment B**.

Field water quality parameters were recorded before sampling, as presented in **Table F3-1**. Samples were then evaluated on the basis of odour and visual signs of contamination, with the following observations noted:

- Groundwater within the monitoring wells was generally colourless to grey in colour, with variable turbidity;
- No hydrocarbon odour was detected in any of the groundwater wells;
- No sheen was observed on the purged / sampled groundwater;
- Well headspace PID readings ranged between 2.3 and 10.7 ppm; and
- Standing water levels ranged between 0.08 and 4.99 mBGL.

Table F3-1 Groundwater Field Data (28 May 2026)

Well ID	SWL (mBGL)	DO (mg/L)	pH	EC ($\mu\text{S}/\text{cm}$)	Temperature ($^{\circ}\text{C}$)	Redox ¹ (mV)
BH1M	2.06	0	6.16	387	17.35	225.2
BH2M (not sampled)	4.99	0.08	7.93	548	17.91	226.6
BH3M	1.73	0	4.73	164	17.37	492.7
BH4M	0.08	0	12.18	1266	17.76	191.6

Footnote:

DO – Dissolved Oxygen

EC – Electrical Conductivity

Redox – Reduction-Oxidation Potential

¹ Field Redox (mV) readings were adjusted to Standard Hydrogen Electrode (SHE) by adding field electrode potential (205mV).

The field water quality data indicated that groundwater beneath the site is acidic to strongly alkaline (pH: 4.73 – 12.18), fresh to marginally saline (EC: 164 – 1,266 $\mu\text{S}/\text{cm}$) and generally oxygen depleted (DO: 0 – 0.08 mg/L). Positive Eh values (191.6–492.7 mV) were recorded during field testing. The elevated pH measured in BH4M may reflect localised influence from alkaline fill and/or cementitious materials within the subsurface.

3.2 Laboratory Analytical Results

A summary of the laboratory analytical results for the groundwater samples is presented in **Table .** More detailed tabulation of results, along with adopted assessment criteria is presented in **Table 1, Attachment A**. Laboratory documentations are presented in **Attachment D**.

Table F3-2 Summary of Groundwater Analytical Results

Number of Primary Samples	Analyte	Minimum Concentration ($\mu\text{g}/\text{L}$)	Maximum Concentration ($\mu\text{g}/\text{L}$)	Sample(s) Exceeding GILs
Priority Metals (total dissolved)				
3	Arsenic	<1	<1	None
3	Cadmium	<0.1	0.1	None

Number of Primary Samples	Analyte	Minimum Concentration (µg/L)	Maximum Concentration (µg/L)	Sample(s) Exceeding GILs
3	Chromium	<1	39	<u>ANZG (2018) 27 µg/L (Cr III) & 4.4 µg/L (Cr VI)</u> BH4M-1 (39 µg/L)
3	Copper	<1	9	<u>ANZG (2018) 0.6 µg/L</u> BH3M-1 (9 µg/L) and BH4M-1 (2 µg/L)
3	Lead	<1	2	None
3	Mercury	<0.1	<0.1	None
3	Nickel	<1	32	<u>ANZG (2018) 5.9 µg/L</u> BH1M-1 (32 µg/L) and BH3M-1 (6 µg/L)
3	Zinc	<5	69	<u>ANZG (2018) 8 µg/L</u> BH1M-1 (14 µg/L) and BH3M-1 (69 µg/L)
PAHs				
3	Naphthalene	<0.1	<0.1	None
3	Benzo(α)pyrene	<0.5	<0.5	None
3	Total PAHs	<0.5	<0.5	None
BTEX and TRHs				
3	Benzene	<0.5	<0.5	None
3	Toluene	<0.5	<0.5	None
3	Ethyl benzene	<0.5	<0.5	None
3	o-Xylene	<0.5	<0.5	None
3	m + p-Xylenes	<1	<1	None
3	F1 – TRHs	<50	<50	None
3	F2 – TRHs	<50	54	<u>PQL (50 µg/L)</u> BH1M-1 (54 µg/L)
3	F3 – TRHs	<100	<100	None
3	F4 – TRHs	<100	<100	None
VOC and Phenols				
3	Total VOC	<10	<10	None
1	Total Phenols	<0.5	<0.5	None
PFAS				
1	PFOS	<0.01	<0.01	None
1	PFOA	0.01	0.01	None
1	PFHxS	<0.01	<0.01	None

3.3 Discussion

Groundwater analytical results generally complied with the adopted GILs, with the following exceptions:

- Priority metals (chromium, copper, nickel and zinc), with concentrations exceeding the adopted ecological criteria for marine water in some wells; however, the concentrations remained below applicable human-health recreational criteria (which accounts for direct contact exposure). The presence of these metals in groundwater is likely representative of disturbed background conditions, as opposed to site-specific impacts. Accordingly, the potential risks associated with these metals in groundwater are considered to be low; and
- Total recoverable hydrocarbons (TRH – fraction F2) were detected in groundwater at BH1M (54 µg/L) at a concentration slightly above the laboratory PQL (50 µg/L). Petroleum hydrocarbons were not detected in other groundwater monitoring wells and no odours or sheen were observed during groundwater sampling. Accordingly, the potential risks associated with petroleum hydrocarbons in groundwater are considered to be low.

3.4 Data Quality Assessment

For this groundwater assessment, data quality assessment involved an evaluation of the compliance of the field (sampling) and laboratory procedures with established protocols, as well as the accuracy and precision of the associated results from the quality control measures. Field quality control (QC) samples and calculated relative percentage differences (RPD) values are presented in **Table 2, Attachment A**.

In summary, the overall quality of the analytical data from this investigation was considered to be of an acceptable standard for interpretive use and preparation of this letter.

4. Conclusion

EI completed a groundwater quality assessment comprising one round of groundwater monitoring and sampling from monitoring wells BH1M, BH3M and BH4M to characterise groundwater conditions beneath the site.

Groundwater beneath the site was generally characterised by low contaminant concentrations, with most analytes reported below the adopted assessment criteria. Elevated concentrations of selected metals (chromium, copper, nickel and zinc) were identified in some monitoring wells above the adopted ecological criteria for marine waters. However, these concentrations remained below applicable human health recreational screening criteria and the potential risks associated with these metals are considered to be low.

Petroleum hydrocarbons, BTEX compounds, VOCs, PAHs, phenols and PFAS were generally not detected, with only a minor detection of TRH F2 reported in groundwater at BH1M. However, the potential risks associated with petroleum hydrocarbons are considered to be low.

Based on the findings of this assessment, no evidence of significant groundwater contamination was identified beneath the site. Accordingly, further groundwater assessment or remediation is not considered warranted for the proposed development.

Should you require any further information, please do not hesitate to contact the undersigned on (02) 9516 0722.

For and on behalf of
EI AUSTRALIA



FIONA ZHANG

Environmental Engineer



LI WEI

Senior Environmental Engineer

Encl: Attachment A – Tables
Attachment B – GME Data Sheets and PID Calibration Form
Attachment C – Borehole Logs
Attachment D – Laboratory Documentation

Attachment A Tables

Table 1 - Summary of Groundwater Analytical Results

Sample ID	Sampling Date	Metals								PAHs			BTEX					TRHs				Total Phenol	Total VOC	PFAS			
		As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	Total PAHs	Benzo(a)pyrene	Naphthalene	Benzene	Toluene	Ethylbenzene	o-xylene	m,p-xylene	F1	F2	F3	F4			PFOS	PFHs	PFOA	
BH1M-1	28/5/2026	<1	<0.1	<1	<1	<1	<0.1	32	14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<50	54	<100	<100	<0.5	<10	<0.01	<0.01	0.01	
BH3M-1		<1	0.1	<1	9	2	<0.1	6	69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<50	<50	<100	<100	NA	<10	NA	NA	NA	
BH4M-1		<1	<0.1	39	2	<1	<0.1	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<50	<50	<100	<100	NA	<10	NA	NA	NA	
Statistical Analysis																											
Maximum Concentration		<1	0.1	39	9	2	<0.1	32	69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<50	54	<100	<100	<0.5	<10	<0.01	<0.01	0.01	
GILs																											
NEPC (2013) HSL A & B - Low to high density residential Soil texture classification – Sand		2m to <4m										NL	800	NL	NL	NL	NL	1,000	1,000								
		4m to <8m										NL	800	NL	NL	NL	NL	NL	1,000	1,000							
		8m+										NL	900	NL	NL	NL	NL	1,000	1,000								
ANZG (2018) GILs Marine Waters ¹		24 (AsII) ⁴ 13 (AsV) ⁴	0.7 ²	27 (Cr III) 4.4 (Cr VI)	0.6	4.4	0.1 ²	5.9	8		0.1 ²	70	700	180	80	350 ⁴	275 ⁴	50 ⁵	50 ⁵	500 ⁵	500 ⁵	400					
Recreational Water ³		100	20	50	1000 *	100	10	200	3000 *				25 *	3 *	20 *	20 *								0.08	0.3	2	
PFAS - Interim Marine ⁶																								0.9		220	

Notes:

- Highlighted indicates criteria exceeded
Highlighted indicates criteria not met

All values are µg/L, unless stated otherwise

HSL A & B NEPC 1999 Amendment 2013 'HSL A & B' Health Based Screening Levels for vapour intrusion applicable for low-high density residential settings.

NL Not Limiting

NA 'Not Analysed' i.e. the sample was not analysed.

NC Not Calculated

F1 F1 is obtained by subtracting the sum of BTEX concentrations from the C6-C10 fraction.

F2 F2 is obtained by subtracting naphthalene from the >C10-C16 fraction.

F3 (>C16-C34)

F4 (>C34-C40)

1 Groundwater Investigation Levels, based on ANZG (2018) Australian and New Zealand Guidelines for 95% protection level for Fresh and Marine Water Quality, Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia, August 2018

2 Chemical for which possible bioaccumulation and secondary poisoning effects should be considered, the 99% DGVs applied for the bio-accumulative parameters benzo(a)pyrene, cadmium and mercury, refer to ANZG (2018) for further guidance.

3 NHMRC (2008) Recreational Criteria will be adopted; where no criteria are available, the lowest NHMRC (2025 - update June 2025 v.4.0) Drinking Water threshold will be assumed (multiplied by a factor of 10). The lowest of the Health Guideline x10 or the Aesthetic Guideline has been chosen as the assessment criteria. Aesthetic based criteria have been indicated by *

4 There were insufficient marine toxicity data to derive a reliable guideline value. Therefore, the freshwater DGV (low reliability) should be used with caution for marine waters, as an unknown reliability value.

5 In lack of a criteria the laboratory PQL has been used (DEC, 2007).

6 Value derived from the HEPA (2025) PFAS National Environmental Management Plan 3.1 - 95% species protection for slightly to moderately disturbed systems.

Table 2 - Summary of QA/QC

Date	Sample Identification	Description	TRH				BTEX				Heavy Metals							
			F1	F2	F3	F4	Benzene	Toluene	Ethylbenzene	Xylene (total)	Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Mercury	Nickel	Zinc
Intra-laboratory Duplicate																		
28/05/2026	BH1M-1	Primary Groundwater Sample	<50	54	<100	<100	<0.5	<0.5	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.1	32	14
	QD1	Intra-laboratory duplicate of BH1M-1	<50	<50	<100	<100	<0.5	<0.5	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.1	31	13
RPD			0.00	10.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.17	7.41
Inter-laboratory Duplicate																		
28/05/2026	BH1M-1	Primary Groundwater Sample	<50	54	<100	<100	<0.5	<0.5	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.1	32	14
	QT1	Inter-laboratory duplicate of BH1M-1	<10	<50	<100	<100	<1	<1	<1	<1.5	<1	<0.1	<1	<1	<1	<0.05	29	13
RPD			NA	10.13	0.00	0.00	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	NA	9.84	7.41
Rinsate Samples																		
28/05/2026	QR1	Equipment Rinsate	<50	<60	<100	<100	<0.5	<0.5	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.1	<1	<5
Trip Blanks																		
28/05/2026	GW-TB	Water	-	-	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-
Trip Spikes																		
28/05/2026	GW-TS	Water	-	-	-	-	[101%]	[101%]	[104%]	-	-	-	-	-	-	-	-	-

Indicates values where a single result is found to be less than detection, with the duplicate sample found to be over the detection limit.
 RPD exceeds 30-50% range referenced from AS4482.1 (2005)

NOTE: All water results are reported in µg/L.

F1 = TRH C6-C10 less the sum of BTEX

F2 = TRH >C10-C16 less naphthalene

F3 = TRH >C16-C34

F4 = TRH >C34-C40

Attachment B

GME Data Sheets and PID Calibration Form



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PYRMONT, NSW, 2009

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CALIBRATION CERTIFICATE FOR PHOTO IONISATION DETECTOR

Instrument: Mini RAE 3000

Serial Number: 592-906667 - EI **PID02** ☐ OR 592-901345 - EI **PID03** ☐ OR _____ EI **PID** 4 ☒

Instrument Conditions: Fine

Calibration gas species: Isobutylene.

Calibration gas concentration: 100 ppm

Gas bottle number: W0 506 642-3

This PID has been calibrated to Isobutylene gas with the span concentration displayed as 100 ppm at 100 ppm span setting (allowable range +/-10ppm from span setting).

The PID is initially zero calibrated in fresh air.

Remaining gas in bottle: 550 psi (if reading is <250 psi, notify Equipment Manager to arrange new gas bottle order)

The above detector was calibrated in accordance with manufacturer's specifications.

Signed: [Signature]

Date: 28/5/26

Time: 8:30 AM

WATER SAMPLING FIELD SHEET



Site Address: 40-56 Durimban Road, Mosman NSW Job Number: E27082
 Client: Durimban Developments Pty Ltd Date: 28/5/26
 Field Staff: C.T. Sampling Location ID BH1M
 Well Location: See attached figure Round No:

MEDIUM ☒ Groundwater ☐ Surface Water ☐ Stormwater ☐ Other:

SAMPLING POINT INFO

Well Installation Date: Stick up / down (m): - 0.15 (+ above ground - below ground)
 Initial Well Depth (mBTC): 8.50 Screen Interval (mBTC): 5.5 - 8.5
 Previous Sampling Date: Previous SWL (mBTC):

PID READINGS

PID Headspace (ppm): 5.3 PID Background (ppm): 0
 PID Breathing Space (ppm): 0

PRE PURGE

Total Well Depth (mBTC): 8.13 Well Head Condition: Fine
 SWL (mBTC): 1.91 Water Column (m): 6.22

PHASE SEPARATED HYDROCARBONS (PSH)

Depth to PSH (mBTC): PSH Visually Confirmed (Bailer):
 PSH Thickness (mm):

Field Filtered

Yes (0.45 µm) ☒ No ☐ (Request lab 0.45 µm filter the sample)

PURGE AND SAMPLE

Sampling Method ☐ Bladder ☒ Peristaltic ☐ Submersible ☐ Other:

Depth of Pump Inlet (mBTC): 7 Fill Timer:
 Pump Pressure Regulator (psi): Discharge Timer:
 Weather Conditions: Light Rain Cycle:
 Pump on time: 9:50 Pump off time: 10:15

WATER QUALITY PARAMETERS

Probe Make and Model: Bump Test Date and Time:

Time	Volume (L)	SWL (mbtoc)	Temp (°C)	EC (µS/cm)	Redox (mV)	DO (mg/L)	pH (units)	Comments (colour, turbidity, odour, sheen etc.)
9:53		2.03	17.39	495	4.8	0	6.20	pale brown, M-M turbid, no odour/sheen.
9:56		2.21	17.41	404	14.4	0	6.17	" " "
9:59		2.34	17.38	391	17.4	0	6.16	" " "
10:02		2.45	17.35	387	20.2	0	6.16	pale grey " "
Stabilisation range: 3 consecutive readings			±0.2°C	±3%	±20mV	±10%	±0.2	

OTHER COMMENTS/OBSERVATIONS:

Full Suite + QACQC DL out at 9:36 AM
 mat 10:35 AM

SIGNATURE:

WATER SAMPLING FIELD SHEET



Site Address: 40-56 Durimban Road, Mosman NSW Job Number: E27082
 Client: Durimban Developments Pty Ltd Date: 28/5/26
 Field Staff: C.T. Sampling Location ID BH2M
 Well Location: See attached figure Round No:

MEDIUM ☒ Groundwater ☐ Surface Water ☐ Stormwater ☐ Other:

SAMPLING POINT INFO

Well Installation Date: Stick up / down (m): - 0.18 (+ above ground - below ground)
 Initial Well Depth (mBTC): 6.5 Screen Interval (mBTC): 3.5 - 6.50
 Previous Sampling Date: Previous SWL (mBTC):

PID READINGS

PID Headspace (ppm): 10.7 PID Background (ppm): 0.1
 PID Breathing Space (ppm): 0.1

PRE PURGE

Total Well Depth (mBTC): 5.90 Well Head Condition: Fine
 SWL (mBTC): 4.81 Water Column (m): 1.09

PHASE SEPARATED HYDROCARBONS (PSH)

Depth to PSH (mBTC): PSH Visually Confirmed (Bailer):
 PSH Thickness (mm):

Field Filtered

Yes (0.45 µm) ☒ No ☐ (Request lab 0.45 µm filter the sample)

PURGE AND SAMPLE

Sampling Method ☐ Bladder ☒ Peristaltic ☐ Submersible ☐ Other:

Depth of Pump Inlet (mBTC): 5.30 Fill Timer:
 Pump Pressure Regulator (psi): Discharge Timer:
 Weather Conditions: Rain Cycle:
 Pump on time: 11:45 Pump off time: 11:51

WATER QUALITY PARAMETERS

Probe Make and Model: Bump Test Date and Time:

Time	Volume (L)	SWL (mbtoc)	Temp (°C)	EC (µS/cm)	Redox (mV)	DO (mg/L)	pH (units)	Comments (colour, turbidity, odour, sheen etc.)
11:47		4.91	17.93	557	22.3	0.28	7.93	clear brown, L turbid, no odour/sheen
11:49		5.02	17.91	543	20.1	0.16	7.93	" " "
11:51		5.14	17.91	548	21.6	0.08	7.93	" " "
Stabilisation range: 3 consecutive readings			±0.2°C	±3%	±20mV	±10%	±0.2	

OTHER COMMENTS/OBSERVATIONS:

No samples collected.

SIGNATURE:

WATER SAMPLING FIELD SHEET



Site Address: 40-56 Durimban Road, Mosman NSW Job Number: E27082
 Client: Durimban Developments Pty Ltd Date: 28/5/26
 Field Staff: C.T. Sampling Location ID BH3M
 Well Location: See attached figure Round No:

MEDIUM ☒ Groundwater ☐ Surface Water ☐ Stormwater ☐ Other:

SAMPLING POINT INFO

Well Installation Date: Stick up / down (m): (+ above ground - below ground)
 Initial Well Depth (mBTC): 12 Screen Interval (mBTC): 4-12
 Previous Sampling Date: Previous SWL (mBTC):

PID READINGS

PID Headspace (ppm): 2.3 PID Background (ppm): 0
 PID Breathing Space (ppm): 0

PRE PURGE

Total Well Depth (mBTC): 11.28 Well Head Condition: Fine
 SWL (mBTC): 1.73 Water Column (m): 9.55

PHASE SEPARATED HYDROCARBONS (PSH)

Depth to PSH (mBTC): PSH Visually Confirmed (Bailer):
 PSH Thickness (mm):

Field Filtered

Yes (0.45 µm) ☒ No ☐ (Request lab 0.45 µm filter the sample)

PURGE AND SAMPLE

Sampling Method ☐ Bladder ☒ Peristaltic ☐ Submersible ☐ Other:

Depth of Pump Inlet (mBTC): 10 Fill Timer:
 Pump Pressure Regulator (psi): Discharge Timer:
 Weather Conditions: Rain Cycle:
 Pump on time: 10:41 Pump off time: 10:56

WATER QUALITY PARAMETERS

Probe Make and Model: Bump Test Date and Time:

Time	Volume (L)	SWL (mbtoc)	Temp (°C)	EC (µS/cm)	Redox (mV)	DO (mg/L)	pH (units)	Comments (colour, turbidity, odour, sheen etc.)
10:44		1.84	17.29	189	268.6	0	4.76	grey, L turbid, no odour/sheen
10:46		1.96	17.35	173	280.1	0	4.74	" " "
10:48		2.11	17.37	164	287.7	0	4.73	" " "
Stabilisation range: 3 consecutive readings			±0.2°C	±3%	±20mV	±10%	±0.2	

OTHER COMMENTS/OBSERVATIONS:

DL out: 10:40 AM
 in: 10:57 AM

SIGNATURE:

WATER SAMPLING FIELD SHEET



Site Address: 40-56 Durimban Road, Mosman NSW				Job Number: E27082				
Client: Durimban Developments Pty Ltd				Date: 28/5/26				
Field Staff: C.T.				Sampling Location ID BH4M				
Well Location: See attached figure				Round No:				
MEDIUM ☒ Groundwater ☐ Surface Water ☐ Stormwater ☐ Other:								
SAMPLING POINT INFO								
Well Installation Date:				Stick up / down (m): -0.05 (+ above ground - below ground)				
Initial Well Depth (mBTC): 6				Screen Interval (mBTC): 1.5-6				
Previous Sampling Date:				Previous SWL (mBTC):				
PID READINGS								
PID Headspace (ppm): 1.5				PID Background (ppm): 1.3				
PID Breathing Space (ppm): 1.3								
PRE PURGE								
Total Well Depth (mBTC): 6.04				Well Head Condition: Fine				
SWL (mBTC): 0.03				Water Column (m): 6.01				
PHASE SEPARATED HYDROCARBONS (PSH)								
Depth to PSH (mBTC):				PSH Visually Confirmed (Bailer):				
PSH Thickness (mm):								
Field Filtered								
Yes (0.45 µm) ☒				No ☐ (Request lab 0.45 µm filter the sample)				
PURGE AND SAMPLE								
Sampling Method ☐ Bladder ☒ Peristaltic ☐ Submersible ☐ Other:								
Depth of Pump Inlet (mBTC): 5				Fill Timer:				
Pump Pressure Regulator (psi):				Discharge Timer:				
Weather Conditions: Rain				Cycle:				
Pump on time: 11:10				Pump off time: 11:24				
WATER QUALITY PARAMETERS								
Probe Make and Model:				Bump Test Date and Time:				
Time	Volume (L)	SWL (mbtoc)	Temp (°C)	EC (µS/cm)	Redox (mV)	DO (mg/L)	pH (units)	Comments (colour, turbidity, odour, sheen etc.)
11:13		0.27	17.73	1643	-0.7	0.04	12.29	clear, L turbid, no odour / sheen.
11:15		0.39	17.76	1464	-8	0	12.25	" " " "
11:17		0.53	17.76	1266	-13.4	0	12.19	" " " "
11:19								
Stabilisation range: 3 consecutive readings			±0.2°C	±3%	±20mV	±10%	±0.2	
OTHER COMMENTS/OBSERVATIONS:								
PL out: 11:07 AM in: 11:25 AM								
SIGNATURE:								

Attachment C Borehole Logs



BOREHOLE LOG

BH ID: BH1M

Location	40-56 Ourimbah Road, Mosman NSW			Started	16 April 2026	
Client	Ourimbah Developments Pty Ltd			Completed	16 April 2026	
Job No.	E27082.G03			Logged By	JO	Date 16 April 2026
Sheets	1 of 3			Review By	STP	Date 25 May 2026
Drilling Contractor	Geosense Drilling Engineers		Surface RL	≈79.60 m (AHD)	Northing	6256167.4 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205		Inclination	90°	Easting	336904.5 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	22/05/2026 GWNE 09:00 AM ▼	SPT 0.50-0.95 3,3,15 N=18		0.00		79.60	FILL: Silty SAND: fine to medium grained, dark brown with fine to medium sub-angular to sub-rounded gravel and some rootlets	M	-	FILL
				0.75		78.85	FILL: : Inferred SANDSTONE Boulder	-		FILL
		SPT 1.50-1.95 4,8,9 N=17		1.05		78.55	Sandy CLAY: medium plasticity, red-brown			RESIDUAL SOIL
				2.00		77.60	From 2.00m, mottled pale grey and red brown with some fine to medium sub-angular to sub-rounded ironstone gravel	M > PL	Vst	
		SPT 3.00-3.15 12/150 mm HB N=R		3.00		76.60	Log continued on next page.			
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH1M

Location	40-56 Ourimbah Road, Mosman NSW			Started	16 April 2026	
Client	Ourimbah Developments Pty Ltd			Completed	16 April 2026	
Job No.	E27082.G03			Logged By	JO	Date 16 April 2026
Sheets	2 of 3			Review By	STP	Date 25 May 2026
Drilling Contractor	Geosense Drilling Engineers		Surface RL	≈79.60 m (AHD)	Northing	6256167.4 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205		Inclination	90°	Easting	336904.5 (MGA 2020 Zone 56)

METHOD	FLUSH RETURN	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
				0			Log continued from previous page.		VL 0-1 L 0-3 M 1 H 3 VH 10 EH		30 100 300 1000 3000
				1							
				2							
				3			NO CORE: 500mm thick				
		72	29	3.50		76.10	SILTSTONE: grey, dark grey and red brown, with some thin bands of sandstone	XW		3.59: BP 0° PR SM CN 3.64: BP 0° PR SM CN 3.69: BP 0° PR SM CN 3.71: BP 0° PR SM CN 3.73: BP 0° PR SM CN 3.74-3.80: XWS 3.90-4.09: XWZ 4.33-4.41: XWS 4.59-4.78: CZ	
				4.80		74.80	SANDSTONE: medium to coarse grained, pale grey, indistinctly cross bedded at 5 to 20°	FR		5.20: BP 10° PR SM CN 6.80: BP 15° PR SM CN 8.33: BP 0° PR RO CN	
NMLC	90%	100	100	5							
				6							
				7							
				8							
				9							
				10							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH1M

Location	40-56 Ourimbah Road, Mosman NSW			Started	16 April 2026		
Client	Ourimbah Developments Pty Ltd			Completed	16 April 2026		
Job No.	E27082.G03			Logged By	JO	Date	16 April 2026
Sheets	3 of 3			Review By	STP	Date	25 May 2026
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈79.60 m (AHD)		
Plant	Comacchio Geo 205			Inclination	90°		
				Northing	6256167.4 (MGA 2020 Zone 56)		
				Easting	336904.5 (MGA 2020 Zone 56)		

METHOD	FLUSH RETURN	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral						DISCONTINUITIES & ADDITIONAL DATA		FRACTURE SPACING						
NMLC	90%	100	100	11.00		68.60	SANDSTONE: medium to coarse grained, pale grey, cross bedded at 10°	FR	VL	L	M	H	VH	EH	11.36: BP 0° PR SM CN	13.39: BP 15° PR RO CN	13.84: BP 25° PR SM CN	14.72: BP 5° PR RO CN	30	100	300	1000	3000
		11.36	68.24	SANDSTONE: medium to coarse grained, pale grey, with some bands of cross bedding		13.39: BP 15° PR RO CN	13.84: BP 25° PR SM CN		14.72: BP 5° PR RO CN														
		100	100	15.45		64.15	Terminated at 15.45m. Target Depth Reached.																

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



MONITORING WELL LOG

BH ID: BH1M

Location	40-56 Ourimbah Road, Mosman NSW			Started	16 April 2026	
Client	Ourimbah Developments Pty Ltd			Completed	16 April 2026	
Job No.	E27082.G03			Logged By	JO	Date 16 April 2026
Sheets	1 of 1			Review By	STP	Date 25 May 2026
Drilling Contractor	Geosense Drilling Engineers		Surface RL	≈79.60 m (AHD)	Northing	6256167.4 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205		Inclination	90°	Easting	336904.5 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
22/05/2026 09:00 AM	SPT 0.50-0.95 3,3,15 N=18	0.00		79.60	FILL: Silty SAND: fine to medium grained, dark brown with fine to medium sub-angular to sub-rounded gravel and some rootlets	M		
	SPT 1.50-1.95 4,8,9 N=17	0.75		78.85	FILL: : Inferred SANDSTONE Boulder	-		
		1.05		78.55	Sandy CLAY: medium plasticity, red-brown			
		2.00		77.60	From 2.00m, mottled pale grey and red brown with some fine to medium sub-angular to sub-rounded ironstone gravel	M > PL		
	SPT 3.00-3.15 12/150 mm HB N=R	3.00		76.60	NO CORE: 500mm thick			
		3.50		76.10	SILTSTONE: grey, dark grey and red brown, with some thin bands of sandstone			
		4.00		74.80	SANDSTONE: medium to coarse grained, pale grey, indistinctly cross bedded at 5 to 20°			
		6.00		68.60	SANDSTONE: medium to coarse grained, pale grey, cross bedded at 10°			
		11.00		68.24	SANDSTONE: medium to coarse grained, pale grey, with some bands of cross bedding			
		15.45		64.15	Terminated at 15.45m. Target Depth Reached.			

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE LOG

BH ID: BH2M

Location	40-56 Ourimbah Road, Mosman NSW			Started	15 April 2026	
Client	Ourimbah Developments Pty Ltd			Completed	15 April 2026	
Job No.	E27082.G03			Logged By	JO	Date 15 April 2026
Sheets	1 of 3			Review By	STP	Date 25 May 2026
Drilling Contractor	Geosense Drilling Engineers		Surface RL	≈76.20 m (AHD)	Northing	6256178.4 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205		Inclination	90°	Easting	336851.7 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T		SPT 0.50-0.95 2,5,3 N=8		0.00		76.20	BRICK: 50mm thick	M	-	BRICK FILL
				0.05		76.15	FILL: Gravelly Silty SAND: fine to medium grained, dark brown with fine to medium sub-angular to sub-rounded gravel			
		SPT 1.50-1.65 7,3/0 mm/150 mm N=R		0.50		75.70	Sandy CLAY: medium plasticity, orange-brown with some fine to medium sub-angular ironstone gravel	M > PL	VSt	RESIDUAL SOIL
				1.65		74.55	SANDSTONE: fine to medium grained, pale grey inferred very low to low strength			
		SPT 3.00-3.00 3/0 mm HB N=R		2.70		73.50	From 2.70m, inferred medium strength	-	-	BEDROCK
				3.12		73.08	Log continued on next page.			
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH2M

Location	40-56 Ourimbah Road, Mosman NSW			Started	15 April 2026		
Client	Ourimbah Developments Pty Ltd			Completed	15 April 2026		
Job No.	E27082.G03			Logged By	JO	Date	15 April 2026
Sheets	2 of 3			Review By	STP	Date	25 May 2026
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈76.20 m (AHD)		
Plant	Comacchio Geo 205			Inclination	90°		
				Northing	6256178.4 (MGA 2020 Zone 56)		
				Easting	336851.7 (MGA 2020 Zone 56)		

METHOD	FLUSH RETURN	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral						DISCONTINUITIES & ADDITIONAL DATA		FRACTURE SPACING				
				0			Log continued from previous page.		VL 0-1	L 0-3	M 1	H 3	VH 10	EH			30	100	300	1000	3000
				1																	
				2																	
				3			SANDSTONE: medium to course grained, pale grey, indistinctly cross bedded at 5 to 20°				▼					4.69: BP 5° PR RO CN					
				4												5.08: BP 10° PR RO CN					
				5							▼										
				5.50		70.70	SANDSTONE: medium to course grained, pale grey, cross bedded at 10°				▼										
				6.00		70.20	SANDSTONE: medium to course grained, pale grey, indistinctly cross bedded at 5 to 10°									6.34: BP 15° PR RO CN					
				7							▼										
				7.40		68.80	SANDSTONE: medium to course grained, pale grey, cross bedded at 5 to 15°				▼										
				8																	
				8.50		67.70	From 8.50m, becoming indistinctly cross bedded at 10°				▼					8.44: BP 14° PR RO CN 8.49: BP 0° PR RO CN 8.51: BP 8° PR RO CN 8.64: BP 17° PR RO CN					
				9							▼										
				10																	



BOREHOLE CORE LOG

BH ID: BH2M

Location	40-56 Ourimbah Road, Mosman NSW			Started	15 April 2026		
Client	Ourimbah Developments Pty Ltd			Completed	15 April 2026		
Job No.	E27082.G03			Logged By	JO	Date	15 April 2026
Sheets	3 of 3			Review By	STP	Date	25 May 2026
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈76.20 m (AHD)		
Plant	Comacchio Geo 205			Inclination	90°		
				Northing	6256178.4 (MGA 2020 Zone 56)		
				Easting	336851.7 (MGA 2020 Zone 56)		

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
NMLC	70%	100	100						VL 0-1 L 0-3 M 1 H 3 VH 10 EH		30 100 300 1000 3000
				10.50		65.70	SANDSTONE: medium to coarse grained, pale grey, cross bedded at 0 to 15°	FR		10.54-10.74: JT 75° PR RO CN 10.92: BP 15° PR RO CN 11.61: BP 15° PR RO CN	
				11							
				12		64.20	Terminated at 12.00m. Target Depth Reached.				
				13							
				14							
				15							
				16							
				17							
				18							
				19							
				20							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

MONITORING WELL LOG

BH ID: BH2M

Location	40-56 Ourimbah Road, Mosman NSW			Started	15 April 2026	
Client	Ourimbah Developments Pty Ltd			Completed	15 April 2026	
Job No.	E27082.G03			Logged By	JO	Date 15 April 2026
Sheets	1 of 1			Review By	STP	Date 25 May 2026
Drilling Contractor	Geosense Drilling Engineers		Surface RL	≈76.20 m (AHD)	Northing	6256178.4 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205		Inclination	90°	Easting	336851.7 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
▽	SPT 0.50-0.95 2,5,3 N=8	0.00		76.20	BRICK: 50mm thick	M	0.00m - 2.50m Sand 2.50m - 3.50m Bentonite 3.50m - 6.50m Sand 6.50m - 12.00m Bentonite	Well Stickup = -0.10m (RL 76.10m) 0.10m - 3.50m PVC casing (50mm Ø) 3.50m - 6.50m PVC screen (50mm Ø)
	SPT 1.50-1.65 7,3/0 mm/150 mm N=R	0.05		76.15	FILL: Gravelly Silty SAND: fine to medium grained, dark brown with fine to medium sub-angular to sub-rounded gravel	M > PL		
	SPT 3.00-3.00 3/0 mm HB N=R	0.50		75.70	Sandy CLAY: medium plasticity, orange-brown with some fine to medium sub-angular ironstone gravel	-		
		1.65		74.55	SANDSTONE: fine to medium grained, pale grey inferred very low to low strength	-		
		2.70		73.50	From 2.70m, inferred medium strength	-		
		3.12		73.08	SANDSTONE: medium to coarse grained, pale grey, indistinctly cross bedded at 5 to 20°	-		
		4.00		72.20		-		
		5.00		71.20	SANDSTONE: medium to coarse grained, pale grey, cross bedded at 10°	-		
		6.00		70.20	SANDSTONE: medium to coarse grained, pale grey, indistinctly cross bedded at 5 to 10°	-		
		7.40		68.80	SANDSTONE: medium to coarse grained, pale grey, cross bedded at 5 to 15°	-		
		8.50		67.70	From 8.50m, becoming indistinctly cross bedded at 10°	-		
		10.50		65.70	SANDSTONE: medium to coarse grained, pale grey, cross bedded at 0 to 15°	-		
		12.00		64.20	Terminated at 12.00m. Target Depth Reached.			

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE LOG

BH ID: BH3M

Location	40-56 Ourimbah Road, Mosman NSW			Started	18 May 2026		
Client	Ourimbah Developments Pty Ltd			Completed	18 May 2026		
Job No.	E27082.G03			Logged By	AE	Date	18 May 2026
Sheets	1 of 3			Review By	STP	Date	25 May 2026
Drilling Contractor	Hard Access Drilling	Surface RL	≈79.25 m (AHD)	Northing	6256140.5 (MGA 2020 Zone 56)		
Plant	Portable Drilling Frame	Inclination	90°	Easting	336893.7 (MGA 2020 Zone 56)		

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	DCP BLOWS	MATERIAL ORIGIN & OBSERVATIONS
AD/T	22/05/2026 GWNE 09:00AM	BH3M_0.5-0.7		0.00		79.25	FILL: Silty SAND: fine to medium grained, dark brown, trace rootlets	M	L		FILL
		BH3M_1.0-1.2		0.50		78.75	Silty CLAY: low to medium plasticity, dark brown mottled yellow, with fine to medium grained sand	M > PL	F		RESIDUAL SOIL
		BH3M_1.5-1.7		1.00		78.25	Silty CLAY: medium to high plasticity, dark brown mottled yellow, with fine to medium grained sand	M = PL	Vst	10, 11, 12, HB	RESIDUAL SOIL
		BH3M_2.5-2.7		2.00		77.25	Silty CLAY: high plasticity, brown mottled yellow		H		RESIDUAL SOIL
		BH3M_2.7-3.0		2.50		76.75	From 2.50m, pale grey	M < PL			
				2.70		76.55	From 2.70m, brown				
				3.00		76.25	Log continued on next page.				
				4							
				5							
				6							
				7							
				8							
				9							
				10							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH3M

Location 40-56 Ourimbah Road, Mosman NSW
Client Ourimbah Developments Pty Ltd
Job No. E27082.G03
Sheets 2 of 3

Started 18 May 2026
Completed 18 May 2026
Logged By AE **Date** 18 May 2026
Review By STP **Date** 25 May 2026

Drilling Contractor Hard Access Drilling **Surface RL** ≈79.25 m (AHD) **Northing** 6256140.5 (MGA 2020 Zone 56)
Plant Portable Drilling Frame **Inclination** 90° **Easting** 336893.7 (MGA 2020 Zone 56)

METHOD	FLUSH RETURN	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
				0			Log continued from previous page.		VL 0-1 L 0-3 M 1 H 3 VH 10 EH		30 100 300 1000 3000
				3.07		76.18	Silty CLAY: high plasticity, pale red brown	RS		3.10: BP 0° PR RO CN	
		100	50	3.28		75.97	SANDSTONE: fine to medium grained, pale grey and red brown, with iron staining	MW		3.35: BP 0° PR RO CN 3.52: JT 60° PR RO CN	
				3.60		75.65	LAMINITE: red brown grey, thinly laminated				
				3.80		75.45	SANDSTONE: fine grained, red brown, with iron staining				
		83	49	4.00		75.25	NO CORE: 200mm thick	-			
				4.76		74.49	SANDSTONE: fine grained, pale grey, indistinctly cross bedded at 0-5°, trace siltstone laminations	SW		4.26: BP 0° PR RO CN 4.34: BP 0° PR RO CN 4.45: BP 3° PR RO CN 4.68: BP 0° PR RO CN	
				5			SANDSTONE: medium to coarse grained, pale grey, distinctly to indistinctly cross bedded at 0-10°			5.70: BP 0° PR RO CN	
				6						6.60: BP 0° PR RO CN	
				7						7.10: BP 0° PR RO CN	
				8						7.66: BP 5° PR RO CN	
				8.20		71.05	SANDSTONE: medium to coarse grained, pale grey, cross bedded at 10°	FR		8.67: BP 0° PR RO Clay Infilled	
		100	100	8.70		70.55	SANDSTONE: medium to coarse grained, pale grey with some bands of cross bedding			9.76: BP 5° PR RO CN	
				9							
				10							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH3M

Location	40-56 Ourimbah Road, Mosman NSW	Started	18 May 2026		
Client	Ourimbah Developments Pty Ltd	Completed	18 May 2026		
Job No.	E27082.G03	Logged By	AE	Date	18 May 2026
Sheets	3 of 3	Review By	STP	Date	25 May 2026

Drilling Contractor	Hard Access Drilling	Surface RL	≈79.25 m (AHD)	Northing	6256140.5 (MGA 2020 Zone 56)
Plant	Portable Drilling Frame	Inclination	90°	Easting	336893.7 (MGA 2020 Zone 56)

METHOD	FLUSH RETURN	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
NMLC	90% Water	100	100								
				11			SANDSTONE: medium to coarse grained, pale grey with some bands of cross bedding	FR	▼	10.40: BP 0° PR RO CN	
				12		67.25	Terminated at 12.00m. Target Depth Reached.				
				13							
				14							
				15							
				16							
				17							
				18							
				19							
				20							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



MONITORING WELL LOG

BH ID: BH3M

Location	40-56 Ourimbah Road, Mosman NSW			Started	18 May 2026		
Client	Ourimbah Developments Pty Ltd			Completed	18 May 2026		
Job No.	E27082.G03			Logged By	AE	Date	18 May 2026
Sheets	1 of 1			Review By	STP	Date	25 May 2026
Drilling Contractor	Hard Access Drilling			Surface RL	≈79.25 m (AHD)		
Plant	Portable Drilling Frame			Inclination	90°		
				Northing	6256140.5 (MGA 2020 Zone 56)		
				Easting	336893.7 (MGA 2020 Zone 56)		

WATER		SAMPLES & FIELD TESTS		DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS		STANDPIPE DETAILS	
22/05/2026 09:00 AM	BH3M_0.5-0.7	0.00		79.25	FILL: Silty SAND: fine to medium grained, dark brown, trace rootlets	M		M	Bentonite 0.00m - 3.50m		Well Stickup =0.0m (RL 79.25m)	
	BH3M_1.0-1.2	0.50		78.75	Silty CLAY: low to medium plasticity, dark brown mottled yellow, with fine to medium grained sand	M > PL						
	BH3M_1.5-1.7	1.00		78.25	Silty CLAY: medium to high plasticity, dark brown mottled yellow, with fine to medium grained sand	M ≈ PL						
	BH3M_2.5-2.7	2.00		77.25	Silty CLAY: high plasticity, brown mottled yellow	M < PL						
	BH3M_2.7-3.0	2.50		76.75	From 2.50m, pale grey							
		2.70		76.75	From 2.70m, brown							
		3.00		76.55	Silty CLAY: high plasticity, pale red brown							
		3.07		76.25	SANDSTONE: fine to medium grained, pale grey and red brown, with iron staining							
		3.28		76.25	LAMINITE: red brown grey, thinly laminated							
		3.60		76.18	SANDSTONE: fine grained, red brown, with iron staining							
		3.80		75.97	NO CORE: 200mm thick							
		4.00		75.65	SANDSTONE: fine grained, pale grey, indistinctly cross bedded at 0-5°, trace siltstone laminations							
		4.76		75.45	SANDSTONE: medium to coarse grained, pale grey, distinctly to indistinctly cross bedded at 0-10°							
		5.00		75.25								
		6.00		74.49								
		7.00										
		8.00										
		8.20		71.05	SANDSTONE: medium to coarse grained, pale grey, cross bedded at 10°							
		8.70		70.55	SANDSTONE: medium to coarse grained, pale grey with some bands of cross bedding							
		9.00										
	10.00											
	11.00											
	12.00		67.25	Terminated at 12.00m. Target Depth Reached.								
		13.00										
		14.00										
		15.00										
		16.00										
		17.00										
		18.00										
		19.00										
		20.00										

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE LOG

BH ID: BH4M

Location	40-56 Ourimbah Road, Mosman NSW			Started	18 May 2026		
Client	Ourimbah Developments Pty Ltd			Completed	18 May 2026		
Job No.	E27082.G03			Logged By	AE	Date	18 May 2026
Sheets	1 of 2			Review By	STP	Date	25 May 2026
Drilling Contractor	Hard Access Drilling		Surface RL	≈74.78 m (AHD)	Northing	6256156.3 (MGA 2020 Zone 56)	
Plant	Portable Drilling Frame		Inclination	90°	Easting	336859.8 (MGA 2020 Zone 56)	

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/TDT	GWNE	BH4M_0.2-0.4		0.00		74.78	CONCRETE: 150mm thick	-	-	CONCRETE
				0.15		74.63	Silty CLAY: high plasticity, pale grey mottled red brown, trace of fine iron indurated nodules	M > PL	St	RESIDUAL SOIL
				0.40		74.38	Log continued on next page.			
				1						
				2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH4M

Location 40-56 Ourimbah Road, Mosman NSW
Client Ourimbah Developments Pty Ltd
Job No. E27082.G03
Sheets 2 of 2

Started 18 May 2026
Completed 18 May 2026
Logged By AE **Date** 18 May 2026
Review By STP **Date** 25 May 2026

Drilling Contractor Hard Access Drilling **Surface RL** ≈74.78 m (AHD) **Northing** 6256156.3 (MGA 2020 Zone 56)
Plant Portable Drilling Frame **Inclination** 90° **Easting** 336859.8 (MGA 2020 Zone 56)

METHOD	FLUSH RETURN	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
				0			Log continued from previous page.		VL 0-1 L 0-3 M 1 H 3 VH 10 EH		30 100 300 1000 3000
NMLC	90% Water						SANDSTONE: fine grained, dark red and pale grey	XW		0.48-0.64: XWS 0.78: BP 15° PR RO Fe SN 0.88: BP 15° PR RO CN 1.20: BP 5° PR RO CN	
		77	39	1.26	73.52		NO CORE: 330mm thick			1.59-1.84: XWZ	
				1.59	73.19		Sandy CLAY: high plasticity, pale yellow	XW		1.91-1.97: XWS	
				1.84	72.94		SANDSTONE: fine grained, dark red brown			2.41: BP 0° PR RO CN 2.62: BP 2° PR RO	
		100	92	2.00	72.78		SANDSTONE: fine to medium grained, red brown becoming orange brown			3.00: BP 0° PR RO Fe SN 3.22: BP 5° PR RO CN	
				2.60	72.18		From 2.60m, pale grey and pale red brown	MW		3.59: JT 5° PR RO CN	
				3						4.47: BP 0° PR RO CN	
		100	100	3.45	71.33		SANDSTONE: medium to coarse grained, pale grey, indistinctly cross bedded at 0-10°			5.58: BP 5° PR RO Clay Infilled	
				4						6.55: JT 15° PR RO SN	
		100	100	4.20	70.58		SANDSTONE: medium to coarse grained, pale grey, cross bedded at 10°			7.38: BP 5° PR RO Clay Infilled	
				4.50	70.28		SANDSTONE: medium to coarse grained, pale grey, indistinctly cross bedded at 0-15° with some bands of distinct cross bedding	FR		7.84: BP 0° PR RO CN	
				5							
				6							
				7							
		100	100	8							
				8.20	66.58		Terminated at 8.20m. Target Depth Reached.				
				9							
				10							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



MONITORING WELL LOG

BH ID: BH4M

Location 40-56 Ourimbah Road, Mosman NSW
Client Ourimbah Developments Pty Ltd
Job No. E27082.G03
Sheets 1 of 1

Started 18 May 2026
Completed 18 May 2026
Logged By AE **Date** 18 May 2026
Review By STP **Date** 25 May 2026

Drilling Contractor Hard Access Drilling
Plant Portable Drilling Frame

Surface RL ≈74.78 m (AHD)
Inclination 90°

Northing 6256156.3 (MGA 2020 Zone 56)
Easting 336859.8 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS		STANDPIPE DETAILS	
22/05/2026 09:00 AM	BH4M_0.2-0.4	0.00		74.78	CONCRETE: 150mm thick	M	Bentonite 0.00m - 1.00m		Well Stickup =0.0m (RL 74.78m)	0.0m - 1.50m PVC casing (50mm Ø)
		0.15		74.78	Silty CLAY: high plasticity, pale grey mottled red brown, trace of fine iron indurated nodules	PL				
		0.40		74.78	SANDSTONE: fine grained, dark red and pale grey					
		1.00		74.38						
		1.26		73.62	NO CORE: 330mm thick					
		1.59		73.19	Sandy CLAY: high plasticity, pale yellow					
		1.94		72.94	SANDSTONE: fine grained, dark red brown					
		2.00		72.94	SANDSTONE: fine to medium grained, red brown becoming orange brown					
		2.60		72.18	From 2.60m, pale grey and pale red brown					
		3.00		71.33						
		3.45		70.58	SANDSTONE: medium to coarse grained, pale grey, indistinctly cross bedded at 0-10°					
		4.00		70.28						
		4.20		70.28	SANDSTONE: medium to coarse grained, pale grey, cross bedded at 10°					
		4.50		69.28	SANDSTONE: medium to coarse grained, pale grey, indistinctly cross bedded at 0-15° with some bands of distinct cross bedding					
		5.00								
		6.00								
		7.00								
		8.00		66.68	Terminated at 8.20m. Target Depth Reached.					
		8.20								
		9.00								
		10.00								
		11.00								
		12.00								
		13.00								
		14.00								
		15.00								
		16.00								
		17.00								
		18.00								
		19.00								
		20.00								

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

EXPLANATION OF NOTES, ABBREVIATIONS & TERMS USED ON BOREHOLE AND TEST PIT LOGS

DRILLING/EXCAVATION METHOD		RR	Rock Roller	RH	Rock Hammer
HA	Hand Auger	RD	Rotary blade or drag bit	NQ	Diamond Core - 47 mm
DTC	Diatube Coring	RT	Rotary Tricone bit	NMLC	Diamond Core - 52 mm
NDD	Non-destructive digging	RAB	Rotary Air Blast	HQ	Diamond Core - 63 mm
AS*	Auger Screwing	RC	Reverse Circulation	HMLC	Diamond Core - 63mm
AD*	Auger Drilling	PT	Push Tube	BH	Tractor Mounted Backhoe
*V	V-Bit	CT	Cable Tool Rig	EX	Tracked Hydraulic Excavator
*T	TC-Bit, e.g. ADT	JET	Jetting	EE	Existing Excavation
ADH	Hollow Auger	WB	Washbore or Bailer	HAND	Excavated by Hand Methods

PENETRATION/EXCAVATION RESISTANCE

- L Low resistance.** Rapid penetration/ excavation possible with little effort from equipment used.
- M Medium resistance.** Penetration/ excavation possible at an acceptable rate with moderate effort from equipment used.
- H High resistance.** Penetration/ excavation is possible but at a slow rate and requires significant effort from equipment used.
- R Refusal/ Practical Refusal.** No further progress possible without risk of damage or unacceptable wear to equipment used.

These assessments are subjective and are dependent on many factors, including equipment power and weight, condition of excavation or drilling tools and experience of the operator.

WATER



Water level at date shown



Partial water loss



Water inflow



Complete water loss

GROUNDWATER NOT OBSERVED Observation of groundwater, whether present or not, was not possible due to drilling water, surface seepage or cave-in of the borehole/ test pit.

GROUNDWATER NOT ENCOUNTERED Borehole/ test pit was dry soon after excavation. However, groundwater could be present in less permeable strata. Inflow may have been observed had the borehole/ test pit been left open for a longer period.

SAMPLING AND TESTING

SPT Standard Penetration Test to AS1289.6.3.1-2004
 4,7,11 N=18 4,7,11 = Blows per 150mm. N = Blows per 300mm penetration following 150mm seating 30/80mm
 Where practical refusal occurs, the blows and penetration for that interval are reported
 Penetration occurred under the rod weight only
 HW Penetration occurred under the hammer and rod weight only
 HB Hammer double bouncing on anvil

Sampling

DS Disturbed Sample
 BDS Bulk disturbed Sample
 GS Gas Sample
 WS Water Sample
 U63 Thin walled tube sample - number indicates nominal sample diameter in millimetres

Testing

FP Field Permeability test over section noted
 FVS Field Vane Shear test expressed as uncorrected shear strength (sv = peak value, sr = residual value)
 PID Photoionisation Detector reading in ppm
 PM Pressuremeter test over section noted
 PP Pocket Penetrometer test expressed as instrument reading in kPa
 WPT Water Pressure tests
 DCP Dynamic Cone Penetrometer test
 CPT Static Cone Penetration test
 CPTu Static Cone Penetration test with pore pressure (u) measurement

RANKING OF VISUALLY OBSERVABLE CONTAMINATION AND ODOUR (for specific soil contamination assessment)

R = 0	No visible evidence of contamination	R = A	No non-natural odours identified
R = 1	Slight evidence of visible contamination	R = B	Slight non-natural odours identified
R = 2	Visible contamination	R = C	Moderate non-natural odours identified
R = 3	Significant visible contamination	R = D	Strong non-natural odours identified

ROCK CORE RECOVERY

TCR = Total Core Recovery (%) SCR = Solid Core Recovery (%) RQD = Rock Quality Designation (%)

$$= \frac{\text{Length of core recovered}}{\text{Length of core run}} \times 100$$

$$= \frac{\Sigma \text{Length of cylindrical core recovered}}{\text{Length of core run}} \times 100$$

$$= \frac{\Sigma \text{Axial Lengths of core} > 100\text{mm}}{\text{Length of core run}} \times 100$$

MATERIAL BOUNDARIES

———— = inferred boundary - - - - - = probable boundary — ? — ? — ? — ? = possible boundary

METHOD OF SOIL DESCRIPTION USED ON BOREHOLE AND TEST PIT LOGS



FILL



**COUBLES or
BOULDERS**



**GRAVEL (GP or
GW)**



**ORGANIC SOILS
(OL, OH or Pt)**



SILT (ML or MH)



CLAY (CL, CI or CH)



SAND (SP or SW)

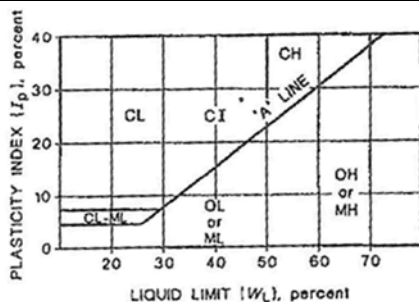
Combinations of these basic symbols may be used to indicate mixed materials such as sandy clay

CLASSIFICATION AND INFERRED STRATIGRAPHY

Soil is broadly classified and described in Borehole and Test Pit Logs using the preferred method given in AS1726 – 1993, (Amdt1 – 1994 and Amdt2 – 1994), Appendix A. Material properties are assessed in the field by visual/tactile methods.

PARTICLE SIZE CHARACTERISTICS			USCS SYMBOLS		
Major Division	Sub Division	Particle Size	Major Divisions	Symbol	Description
BOULDERS		>200 mm	COARSE GRAINED SOILS More than 50% by dry mass less than 63mm is greater than 0.075mm	More than 50% of coarse grains are >2mm	GW Well graded gravel and gravel-sand mixtures, little or no fines.
COBBLES		63 to 200 mm			GP Poorly graded gravel and gravel-sand mixtures, little or no fines.
GRAVEL	Coarse	20 to 63 mm			GM Silty gravel, gravel-sand-silt mixtures.
	Medium	6 to 20 mm			GC Clayey gravel, gravel-sand-clay mixtures.
	Fine	2 to 6 mm		More than 50% of coarse grains are <2 mm	SW Well graded sand and gravelly sand, little or no fines.
SAND	Coarse	0.6 to 2 mm			SP Poorly graded sand and gravelly sand, little or no fines.
	Medium	0.2 to 0.6 mm			SM Silty sand, sand-silt mixtures.
	Fine	0.075 to 0.2mm			SC Clayey sand, sandy-clay mixtures.
SILT		0.002 to 0.075 mm	FINE GRAINED SOILS More than 50% by dry mass less than 63mm is less than 0.075mm	Liquid Limit less than 50%	ML Inorganic silts of low plasticity, very fine sands, rock flour, silty or clayey fine sands.
CLAY		<0.002 mm			CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays.
					OL Organic silts and organic silty clays of low plasticity.
				Liquid Limit > 50%	MH Inorganic silts of high plasticity.
					CH Inorganic clays of high plasticity.
					OH Organic clays of medium to high plasticity.
				PT	Peat muck and other highly organic soils.

PLASTICITY PROPERTIES



MOISTURE CONDITION

Symbol	Term	Description
D	Dry	Sands and gravels are free flowing. Clays & Silts may be brittle or friable and powdery.
M	Moist	Soils are darker than in the dry condition & may feel cool. Sands and gravels tend to cohere.
W	Wet	Soils exude free water. Sands and gravels tend to cohere.

Moisture content of cohesive soils may also be described in relation to plastic limit (WP) or liquid limit (WL) [» much greater than, > greater than, < less than, « much less than].

CONSISTENCY			DENSITY			
Symbol	Term	Undrained Shear Strength	Symbol	Term	Density Index %	SPT "N" #
VS	Very Soft	0. to 12 kPa	VL	Very Loose	< 15	0 to 4
S	Soft	12 to 25 kPa	L	Loose	15 to 35	4 to 10
F	Firm	25 to 50 kPa	MD	Medium Density	35 to 65	10 to 30
St	Stiff	50 to 100 kPa	D	Dense	65 to 85	30 to 50
VSt	Very Stiff	100 to 200 kPa	VD	Very Dense	Above 85	Above 50
H	Hard	Above 200 kPa				

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 – 1993, 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 different to general properties of primary component	Coarse grained soils: ≤ 5% Fine grained soil: ≤15%
Some	Presence easily detectable by feel or eye but soil properties little or no different to general properties of primary component	Coarse grained soils: 5 - 12% Fine grained soil: 15 - 30%

TERMS FOR ROCK MATERIAL STRENGTH AND WEATHERING

CLASSIFICATION AND INFERRED STRATIGRAPHY

Soil is broadly classified and described in Borehole and Test Pit Logs using the preferred method given in AS1726 – 1993, (Amdt1 – 1994 and Amdt2 – 1994), Appendix A. Material properties are assessed in the field by visual/ tactile methods.

STRENGTH

Symbol	Term	Point Load Index, $Is_{(50)}$ (MPa) #	Field Guide
EL	Extremely Low	< 0.03	Easily remoulded by hand to a material with soil properties.
VL	Very Low	0.03 to 0.1	Material crumbles under firm blows with sharp end of pick; can be peeled with knife; too hard to cut a triaxial sample by hand. Pieces up to 30 mm can be broken by finger pressure.
L	Low	0.1 to 0.3	Easily scored with a knife; indentations 1 mm to 3 mm show in the specimen with firm blows of pick point; has dull sound under hammer. A piece of core 150 mm long by 50 mm diameter may be broken by hand. Sharp edges of core may be friable and break during handling.
M	Medium	0.3 to 1	Readily scored with a knife; a piece of core 150 mm long by 50 mm diameter can be broken by hand with difficulty.
H	High	1 to 3	A piece of core 150 mm long by 50 mm diameter cannot be broken by hand but can be broken with pick with a single firm blow; rock rings under hammer.
VH	Very High	3 to 10	Hand specimen breaks with pick after more than one blow; rock rings under hammer.
EH	Extremely High	>10	Specimen requires many blows with geological pick to break through intact material; rock rings under hammer.

Rock Strength Test Results

▼ Point Load Strength Index, $Is_{(50)}$, Axial test (MPa)

◀ Point Load Strength Index, $Is_{(50)}$, Diametral test (MPa)

Relationship between rock strength test result ($Is_{(50)}$) and unconfined compressive strength (UCS) will vary with rock type and strength, and should be determined on a site-specific basis. UCS is typically 10 to 30 x $Is_{(50)}$, but can be as low as 5 MPa.

ROCK MATERIAL WEATHERING

Symbol	Term	Field Guide
RS	Residual Soil	Soil developed on extremely weathered rock; the mass structure and substance fabric are no longer evident; there is a large change in volume but the soil has not been significantly transported.
EW	Extremely Weathered	Rock is weathered to such an extent that it has soil properties - i.e. it either disintegrates or can be remoulded, in water.
DW	Distinctly Weathered	Rock strength usually changed by weathering. The rock may be highly discoloured, usually by iron staining. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores. In some environments it is convenient to subdivide into Highly Weathered and Moderately Weathered, with the degree of alteration typically less for MW.
SW	Slightly Weathered	Rock slightly discoloured but shows little or no change of strength relative to fresh rock.
FR	Fresh	Rock shows no sign of decomposition or staining.

ABBREVIATIONS AND DESCRIPTIONS FOR ROCK MATERIAL AND DEFECTS

CLASSIFICATION AND INFERRED STRATIGRAPHY

Rock is broadly classified and described in Borehole Logs using the preferred method given in AS1726 – 1993, (Amdt1 – 1994 and Amdt2 – 1994), Appendix A. Material properties are assessed in the field by visual/ tactile methods.

ROCK MATERIAL DESCRIPTION

Layering		Structure	
Term	Description	Term	Spacing (mm)
Massive	No layering apparent	Thinly laminated	<6
		Laminated	6 – 20
Poorly Developed	Layering just visible; little effect on properties	Very thinly bedded	20 – 60
		Thinly bedded	60 – 200
Well Developed	Layering (bedding, foliation, cleavage) distinct; rock breaks more easily parallel to layering	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 air, water or soil or rock substance, which acts as cement.
Bedding Parting	BP	Surface of fracture or parting, across which the rock has little or no tensile strength, parallel or 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 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 spaced (often <50 mm) 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 roughly 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.
Schistosity	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	PI	Consistent orientation	Polished	Pol	Shiny smooth surface
Curved	Cu	Gradual change in orientation	Slickensided	SL	Grooved or striated 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

DEFECT APERTURE

Coating	Abbr.	Description	Aperture	Abbr.	Description
Clean	CN	No visible coating or infilling	Closed	CL	Closed.
Stain	SN	No visible coating but surfaces are discoloured by staining, often limonite (orange-brown)	Open	O	Without any infill material.
Veneer	VNR	A visible coating of soil or mineral substance, usually too thin to measure (< 1 mm); may be patchy	Infilled	-	Soil or rock i.e. clay, talc, pyrite, quartz, etc.

Attachment D

Laboratory Documentation

CLIENT DETAILS

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Project **E27082, 40-56 Ourimbah Road Mosman**
 Order Number **E27082**
 Samples 7

LABORATORY DETAILS

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SGS Reference **SE302944 R1**
 Date Received 28/5/2026
 Date Reported 3/6/2026

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

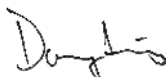
SE302944.001 Enterococci reported as estimate.

This report cancels and supersedes the report No.SE302944 R0. dated 02/06/2026 due to amended Uranium LOR.

SIGNATORIES



Akheeqar BENIAMREEN
 Chemist



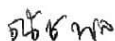
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Tim MEEYAN
 Microbiologist



Ying Ying ZHANG
 Laboratory Technician

VOCs in Water [AN433] Tested: 29/5/2026

PARAMETER	UOM	LOR	BH1M-1	BH3M-1	BH4M-1	QD1	QR1
			WATER	WATER	WATER	WATER	WATER
			28/5/2026 SE302944.001	28/5/2026 SE302944.002	28/5/2026 SE302944.003	28/5/2026 SE302944.004	28/5/2026 SE302944.005
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	<3	<3	<3
Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	<5	<5	-	-
Chloromethane	µg/L	5	<5	<5	<5	-	-
Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	<0.3	<0.3	-	-
Bromomethane	µg/L	10	<10	<10	<10	-	-
Chloroethane	µg/L	5	<5	<5	<5	-	-
Trichlorofluoromethane	µg/L	1	<1	<1	<1	-	-
Acetone (2-propanone)	µg/L	10	<10	<10	<10	-	-
Iodomethane	µg/L	5	<5	<5	<5	-	-
1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Acrylonitrile	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Dichloromethane (Methylene chloride)	µg/L	5	<5	<5	<5	-	-
Allyl chloride	µg/L	2	<2.0	<2.0	<2.0	-	-
Carbon disulfide	µg/L	2	<2.0	<2.0	<2.0	-	-
trans-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
MIBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,1-dichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Vinyl acetate*	µg/L	10	<10	<10	<10	-	-
MEK (2-butanone)	µg/L	10	<10	<10	<10	-	-
cis-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Bromochloromethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Chloroform (THM)	µg/L	0.5	0.8	<0.5	0.7	-	-
2,2-dichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2-dichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,1,1-trichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,1-dichloropropene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Carbon tetrachloride	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Dibromomethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2-dichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
2-nitropropane	µg/L	100	<100	<100	<100	-	-
Bromodichloromethane (THM)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
MIBK (4-methyl-2-pentanone)	µg/L	5	<5	<5	<5	-	-
cis-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
trans-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,1,2-trichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,3-dichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Dibromochloromethane (THM)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
2-hexanone (MBK)	µg/L	5	<5	<5	<5	-	-
1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Chlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Bromoform (THM)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Styrene (Vinyl benzene)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2,3-trichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
trans-1,4-dichloro-2-butene	µg/L	1	<1	<1	<1	-	-
Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	<0.5	<0.5	-	-

VOCs in Water [AN433] Tested: 29/5/2026 (continued)

PARAMETER	UOM	LOR	BH1M-1	BH3M-1	BH4M-1	QD1	QR1
			WATER	WATER	WATER	WATER	WATER
			28/5/2026 SE302944.001	28/5/2026 SE302944.002	28/5/2026 SE302944.003	28/5/2026 SE302944.004	28/5/2026 SE302944.005
Bromobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
n-propylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
2-chlorotoluene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
4-chlorotoluene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,3,5-trimethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
tert-butylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2,4-trimethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
sec-butylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,3-dichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,4-dichlorobenzene	µg/L	0.3	<0.3	<0.3	<0.3	-	-
p-isopropyltoluene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2-dichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
n-butylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2,4-trichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Hexachlorobutadiene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2,3-trichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Total VOC	µg/L	10	<10	<10	<10	-	-
Total Halogenated Hydrocarbons	µg/L	10	<10	<10	<10	-	-
Total Chlorinated Hydrocarbons VIC EPA	µg/L	0.5	1.0	<0.5	0.9	-	-
Total MAH	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Total Chlorinated Hydrocarbons	µg/L	10	<10	<10	<10	-	-
Total Other Chlorinated Hydrocarbons VIC EPA	µg/L	0.5	0.9	<0.5	0.9	-	-
Total THM	µg/L	2	<2	<2	<2	-	-
Total MAH VIC EPA (BTEX+Styrene)	µg/L	0.5	<0.5	<0.5	<0.5	-	-

VOCs in Water [AN433] Tested: 29/5/2026 (continued)

PARAMETER	UOM	LOR	GW-TB1	GW-TS1
			WATER - 28/5/2026 SE302944.006	WATER - 28/5/2026 SE302944.007
Benzene	µg/L	0.5	<0.5	[101%]
Toluene	µg/L	0.5	<0.5	[101%]
Ethylbenzene	µg/L	0.5	<0.5	[104%]
m/p-xylene	µg/L	1	<1	[104%]
o-xylene	µg/L	0.5	<0.5	[104%]
Naphthalene (VOC)*	µg/L	0.5	<0.5	[83%]
Total Xylenes	µg/L	1.5	<1.5	-
Total BTEX	µg/L	3	<3	-
Dichlorodifluoromethane (CFC-12)	µg/L	5	-	-
Chloromethane	µg/L	5	-	-
Vinyl chloride (Chloroethene)	µg/L	0.3	-	-
Bromomethane	µg/L	10	-	-
Chloroethane	µg/L	5	-	-
Trichlorofluoromethane	µg/L	1	-	-
Acetone (2-propanone)	µg/L	10	-	-
Iodomethane	µg/L	5	-	-
1,1-dichloroethene	µg/L	0.5	-	-
Acrylonitrile	µg/L	0.5	-	-
Dichloromethane (Methylene chloride)	µg/L	5	-	-
Allyl chloride	µg/L	2	-	-
Carbon disulfide	µg/L	2	-	-
trans-1,2-dichloroethene	µg/L	0.5	-	-
MIBE (Methyl-tert-butyl ether)	µg/L	0.5	-	-
1,1-dichloroethane	µg/L	0.5	-	-
Vinyl acetate*	µg/L	10	-	-
MEK (2-butanone)	µg/L	10	-	-
cis-1,2-dichloroethene	µg/L	0.5	-	-
Bromochloromethane	µg/L	0.5	-	-
Chloroform (THM)	µg/L	0.5	-	-
2,2-dichloropropane	µg/L	0.5	-	-
1,2-dichloroethane	µg/L	0.5	-	-
1,1,1-trichloroethane	µg/L	0.5	-	-
1,1-dichloropropene	µg/L	0.5	-	-
Carbon tetrachloride	µg/L	0.5	-	-
Dibromomethane	µg/L	0.5	-	-
1,2-dichloropropane	µg/L	0.5	-	-
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	-	-
2-nitropropane	µg/L	100	-	-
Bromodichloromethane (THM)	µg/L	0.5	-	-
MIBK (4-methyl-2-pentanone)	µg/L	5	-	-
cis-1,3-dichloropropene	µg/L	0.5	-	-
trans-1,3-dichloropropene	µg/L	0.5	-	-
1,1,2-trichloroethane	µg/L	0.5	-	-
1,3-dichloropropane	µg/L	0.5	-	-
Dibromochloromethane (THM)	µg/L	0.5	-	-
2-hexanone (MBK)	µg/L	5	-	-
1,2-dibromoethane (EDB)	µg/L	0.5	-	-
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	-	-
1,1,1,2-tetrachloroethane	µg/L	0.5	-	-
Chlorobenzene	µg/L	0.5	-	-
Bromoform (THM)	µg/L	0.5	-	-
Styrene (Vinyl benzene)	µg/L	0.5	-	-
1,1,2,2-tetrachloroethane	µg/L	0.5	-	-
1,2,3-trichloropropane	µg/L	0.5	-	-
trans-1,4-dichloro-2-butene	µg/L	1	-	-
Isopropylbenzene (Cumene)	µg/L	0.5	-	-

VOCs in Water [AN433] Tested: 29/5/2026 (continued)

PARAMETER	UOM	LOR	GW-TB1	GW-TS1
			WATER - 28/5/2026 SE302944.006	WATER - 28/5/2026 SE302944.007
Bromobenzene	µg/L	0.5	-	-
n-propylbenzene	µg/L	0.5	-	-
2-chlorotoluene	µg/L	0.5	-	-
4-chlorotoluene	µg/L	0.5	-	-
1,3,5-trimethylbenzene	µg/L	0.5	-	-
tert-butylbenzene	µg/L	0.5	-	-
1,2,4-trimethylbenzene	µg/L	0.5	-	-
sec-butylbenzene	µg/L	0.5	-	-
1,3-dichlorobenzene	µg/L	0.5	-	-
1,4-dichlorobenzene	µg/L	0.3	-	-
p-isopropyltoluene	µg/L	0.5	-	-
1,2-dichlorobenzene	µg/L	0.5	-	-
n-butylbenzene	µg/L	0.5	-	-
1,2-dibromo-3-chloropropane	µg/L	0.5	-	-
1,2,4-trichlorobenzene	µg/L	0.5	-	-
Hexachlorobutadiene	µg/L	0.5	-	-
1,2,3-trichlorobenzene	µg/L	0.5	-	-
Total VOC	µg/L	10	-	-
Total Halogenated Hydrocarbons	µg/L	10	-	-
Total Chlorinated Hydrocarbons VIC EPA	µg/L	0.5	-	-
Total MAH	µg/L	0.5	-	-
Total Chlorinated Hydrocarbons	µg/L	10	-	-
Total Other Chlorinated Hydrocarbons VIC EPA	µg/L	0.5	-	-
Total THM	µg/L	2	-	-
Total MAH VIC EPA (BTEX+Styrene)	µg/L	0.5	-	-

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 29/5/2026

PARAMETER	UOM	LOR	BH1M-1	BH3M-1	BH4M-1	QD1	QR1
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			28/5/2026 SE302944.001	28/5/2026 SE302944.002	28/5/2026 SE302944.003	28/5/2026 SE302944.004	28/5/2026 SE302944.005
TRH C6-C9	µg/L	40	<40	<40	<40	<40	<40
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	50	<50	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50	<50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 29/5/2026

PARAMETER	UOM	LOR	BH1M-1	BH3M-1	BH4M-1	QD1	QR1
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			28/5/2026 SE302944.001	28/5/2026 SE302944.002	28/5/2026 SE302944.003	28/5/2026 SE302944.004	28/5/2026 SE302944.005
TRH C10-C14	µg/L	50	<50	<50	<50	<50	<50
TRH C15-C28	µg/L	100	<100	<100	<100	<100	<100
TRH C29-C36	µg/L	100	<100	<100	<100	<100	<100
Total TRH (C10-C36)	µg/L	50	<50	<50	<50	<50	<50
TRH >C10-C16	µg/L	50	54	<50	<50	<50	<50
TRH >C10-C16 - Naphthalene (F2)	µg/L	50	54	<50	<50	<50	<50
TRH >C16-C34 (F3)	µg/L	100	<100	<100	<100	<100	<100
TRH >C34-C40 (F4)	µg/L	100	<100	<100	<100	<100	<100
Total TRH (>C10-C40)	µg/L	50	54	<50	<50	<50	<50

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 29/5/2026

PARAMETER	UOM	LOR	BH1M-1	BH3M-1	BH4M-1
			WATER - 28/5/2026 SE302944.001	WATER - 28/5/2026 SE302944.002	WATER - 28/5/2026 SE302944.003
Naphthalene	µg/L	0.5	<0.5	<0.5	<0.5
2-methylnaphthalene	µg/L	0.5	<0.5	<0.5	<0.5
1-methylnaphthalene	µg/L	0.5	<0.5	<0.5	<0.5
Acenaphthylene	µg/L	0.5	<0.5	<0.5	<0.5
Acenaphthene	µg/L	0.5	<0.5	<0.5	<0.5
Fluorene	µg/L	0.5	<0.5	<0.5	<0.5
Phenanthrene	µg/L	0.5	<0.5	<0.5	<0.5
Anthracene	µg/L	0.5	<0.5	<0.5	<0.5
Fluoranthene	µg/L	0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene	µg/L	0.5	<0.5	<0.5	<0.5
Chrysene	µg/L	0.5	<0.5	<0.5	<0.5
Benzo(b&j)fluoranthene	µg/L	0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	µg/L	0.5	<0.5	<0.5	<0.5
Benzo(b&j&k)fluoranthene	µg/L	0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	µg/L	0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-cd)pyrene	µg/L	0.5	<0.5	<0.5	<0.5
Dibenzo(ah)anthracene	µg/L	0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene	µg/L	0.5	<0.5	<0.5	<0.5
Total PAH	µg/L	0.5	<0.5	<0.5	<0.5

pH in water [AN101] Tested: 28/5/2026

			BH1M-1	BH3M-1	BH4M-1
			WATER	WATER	WATER
			-	-	-
			28/5/2026	28/5/2026	28/5/2026
			SE302944.001	SE302944.002	SE302944.003
PARAMETER	UOM	LOR			
pH**	pH Units	0.1	6.3	5.1	11.4



ANALYTICAL RESULTS

SE302944 R1

Conductivity and TDS by Calculation - Water [AN106] Tested: 28/5/2026

			BH1M-1	BH3M-1	BH4M-1
			WATER	WATER	WATER
			-	-	-
			28/5/2026	28/5/2026	28/5/2026
PARAMETER	UOM	LOR	SE302944.001	SE302944.002	SE302944.003
Conductivity @ 25 C	µS/cm	2	350	160	940



ANALYTICAL RESULTS

SE302944 R1

Total Dissolved Solids (TDS) in water [AN113] Tested: 29/5/2026

			BH1M-1	BH3M-1	BH4M-1
			WATER	WATER	WATER
			-	-	-
			28/5/2026	28/5/2026	28/5/2026
PARAMETER	UOM	LOR	SE302944.001	SE302944.002	SE302944.003
Total Dissolved Solids Dried at 175-185°C	mg/L	10	180	63	330



ANALYTICAL RESULTS

SE302944 R1

Turbidity [AN119] Tested: 28/5/2026

			BH1M-1	BH3M-1	BH4M-1
			WATER	WATER	WATER
			-	-	-
			28/5/2026	28/5/2026	28/5/2026
PARAMETER	UOM	LOR	SE302944.001	SE302944.002	SE302944.003
Turbidity	NTU	0.5	160	160	14

Metals in Water (Dissolved) by ICPOES [AN320] Tested: 1/6/2026

PARAMETER	UOM	LOR	BH1M-1	BH3M-1	BH4M-1
			WATER - 28/5/2026 SE302944.001	WATER - 28/5/2026 SE302944.002	WATER - 28/5/2026 SE302944.003
Calcium, Ca	mg/L	0.2	16	5.4	91
Magnesium, Mg	mg/L	0.1	3.6	3.1	0.2
Total Hardness by Calculation	mg CaCO ₃ /L	1	56	26	230
Sodium Adsorption Ratio	No unit	0.2	2.7	-	-
Sodium, Na	mg/L	0.5	46	-	-
Potassium, K	mg/L	0.1	2.4	-	-
Lithium, Li	mg/L	0.005	<0.005	-	-
Silicon, Si*	mg/L	0.05	4.9	-	-
Soluble Silicon as Silica, SiO ₂ *	mg/L	0.1	11	-	-

OP Pesticides in Water [AN420] Tested: 29/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
PARAMETER	UOM	LOR	SE302944.001
Azinphos-methyl	µg/L	0.5	<0.5
Bromophos Ethyl	µg/L	0.5	<0.5
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5
Dichlorvos	µg/L	0.5	<0.5
Dimethoate	µg/L	0.5	<0.5
Ethion	µg/L	0.5	<0.5
Fenitrothion	µg/L	0.5	<0.5
Malathion	µg/L	0.5	<0.5
Methidathion	µg/L	0.5	<0.5
Parathion-ethyl (Parathion)	µg/L	0.5	<0.5
Total OP Pesticides	µg/L	0.5	<0.5

OC Pesticides in Water [AN420] Tested: 29/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
PARAMETER	UOM	LOR	SE302944.001
Alpha BHC	µg/L	0.2	<0.2
Hexachlorobenzene (HCB)	µg/L	0.2	<0.2
Beta BHC	µg/L	0.2	<0.2
Lindane (gamma BHC)	µg/L	0.2	<0.2
Delta BHC	µg/L	0.2	<0.2
Heptachlor	µg/L	0.2	<0.2
Aldrin	µg/L	0.2	<0.2
Heptachlor epoxide	µg/L	0.2	<0.2
Gamma Chlordane	µg/L	0.2	<0.2
Alpha Chlordane	µg/L	0.2	<0.2
Chlordane (alpha + gamma chlordane)	µg/L	0.2	<0.2
Alpha Endosulfan	µg/L	0.2	<0.2
p,p'-DDE	µg/L	0.2	<0.2
Dieldrin	µg/L	0.2	<0.2
Endrin	µg/L	0.2	<0.2
Beta Endosulfan	µg/L	0.2	<0.2
p,p'-DDD	µg/L	0.2	<0.2
Endrin aldehyde	µg/L	0.2	<0.2
Endosulfan sulphate	µg/L	0.2	<0.2
p,p'-DDT	µg/L	0.2	<0.2
Endrin ketone	µg/L	0.2	<0.2
Methoxychlor	µg/L	0.2	<0.2
Mirex	µg/L	0.2	<0.2
Total Aldrin and Dieldrin	µg/L	0.2	<0.2
Total p,p' DDE/DDT/DDD	µg/L	0.2	<0.2
Total OC Pesticides	µg/L	0.2	<0.2
Total OCP VIC EPA IWRG621	µg/L	0.2	<0.2
Total Other OCP VIC EPA IWRG621	µg/L	0.2	<0.2

PCBs in Water [AN420] Tested: 29/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
			SE302944.001
PARAMETER	UOM	LOR	
Arochlor 1016	µg/L	1	<1
Arochlor 1221	µg/L	1	<1
Arochlor 1232	µg/L	1	<1
Arochlor 1242	µg/L	1	<1
Arochlor 1248	µg/L	1	<1
Arochlor 1254	µg/L	1	<1
Arochlor 1260	µg/L	1	<1
Total PCBs	µg/L	5	<5

Full 8270 SVOC in Water [AN420] Tested: 29/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
PARAMETER	UOM	LOR	SE302944.001
Acenaphthene	µg/L	0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1
Anthracene	µg/L	0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1
Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1
Chrysene	µg/L	0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1
Fluorene	µg/L	0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1
Naphthalene	µg/L	0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1
Pyrene	µg/L	0.1	<0.1
2-acetylaminofluorene	µg/L	0.5	<0.5
7,12-dimethyl-benz(a)anthracene	µg/L	0.5	<0.5
3-methylcholanthrene	µg/L	0.5	<0.5
Aldrin	µg/L	0.1	<0.1
Alpha-BHC	µg/L	0.1	<0.1
Beta-BHC	µg/L	0.1	<0.1
Delta-BHC	µg/L	0.1	<0.1
Gamma-BHC (Lindane)	µg/L	0.1	<0.1
p,p-DDD	µg/L	0.1	<0.1
p,p-DDE	µg/L	0.1	<0.1
p,p-DDT	µg/L	0.1	<0.1
Dieldrin	µg/L	0.1	<0.1
Alpha-endosulfan	µg/L	0.1	<0.1
Beta-endosulfan	µg/L	0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1
Endrin	µg/L	0.1	<0.1
Heptachlor	µg/L	0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1
Mirex	µg/L	0.1	<0.1
Alpha-chlordane	µg/L	0.1	<0.1
Gamma-chlordane	µg/L	0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1
Azinphos-methyl (Guthion)	µg/L	0.2	<0.2
Bromophos ethyl	µg/L	0.2	<0.2
Carbophenothion	µg/L	0.5	<0.5
Chlorfenvinphos-cis	µg/L	5	<5
Chlorfenvinphos-trans	µg/L	0.5	<0.5
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
Chlorpyrifos-methyl	µg/L	0.5	<0.5
Co-Ral (Coumaphos)	µg/L	0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5
Dichlorvos	µg/L	0.5	<0.5
Demeton-S-methyl	µg/L	0.5	<0.5
Dimethoate	µg/L	0.5	<0.5
Disulfoton (Di-syston)	µg/L	0.5	<0.5
EPN*	µg/L	0.5	<0.5

Full 8270 SVOC in Water [AN420] Tested: 29/5/2026 (continued)

			BH1M-1
			WATER
			-
			28/5/2026
PARAMETER	UOM	LOR	SE302944.001
Ethion	µg/L	0.2	<0.2
Ethoprophos (ethoprop or prophos)	µg/L	0.5	<0.5
Famphur (Famophos)	µg/L	0.5	<0.5
Fenamiphos (Phenamiphos)	µg/L	0.5	<0.5
Fenchlorophos (Ronnell)	µg/L	0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2
Fenthion	µg/L	0.5	<0.5
Malathion (Maldison)	µg/L	0.2	<0.2
Methidathion	µg/L	0.5	<0.5
Mevinphos-cis/trans	µg/L	1	<1
o,o,o-triethyl phosphorothioate	µg/L	0.5	<0.5
Parathion ethyl (Parathion)	µg/L	0.2	<0.2
Parathion methyl	µg/L	0.5	<0.5
Phorate	µg/L	0.5	<0.5
Pirimiphos-ethyl	µg/L	0.5	<0.5
Pirimiphos-methyl	µg/L	0.5	<0.5
Profenofos	µg/L	0.5	<0.5
Prothiophos (Tokuthion)*	µg/L	0.5	<0.5
Sulfotepp	µg/L	0.5	<0.5
Tetrachlorvinphos (Stirophos)*	µg/L	0.5	<0.5
PCB Congener C28	µg/L	0.1	<0.1
PCB Congener C52	µg/L	0.1	<0.1
PCB Congener C101	µg/L	0.1	<0.1
PCB Congener C118	µg/L	0.1	<0.1
PCB Congener C138	µg/L	0.1	<0.1
PCB Congener C153	µg/L	0.1	<0.1
PCB Congener C180	µg/L	0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
1,2-dichlorobenzene	µg/L	0.5	<0.5
1,3-dichlorobenzene	µg/L	0.5	<0.5
1,4-dichlorobenzene	µg/L	0.5	<0.5
Hexachlorobutadiene	µg/L	0.5	<0.5
Hexachlorocyclopentadiene	µg/L	2	<2
Hexachloroethane	µg/L	0.5	<0.5
Hexachloropropene	µg/L	0.5	<0.5
Pentachlorobenzene	µg/L	0.5	<0.5
Pentachloroethane	µg/L	0.5	<0.5
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	µg/L	1	<1
1,2,3,4-tetrachlorobenzene	µg/L	0.5	<0.5
1/2-Chloronaphthalene	µg/L	1	<1
1,2,4-trichlorobenzene	µg/L	0.5	<0.5
Bis(2-ethylhexyl)phthalate	µg/L	10	<10
Bis(2-ethylhexyl)adipate	µg/L	1	<1
Butyl benzyl phthalate	µg/L	1	<1
Di-n-butyl phthalate	µg/L	10	<10
Diethyl phthalate	µg/L	5	<5
Dimethyl phthalate	µg/L	1	<1
Di-n-octyl phthalate	µg/L	1	<1
Carbofuran	µg/L	0.5	<0.5
Carbaryl	µg/L	0.5	<0.5
Trifluralin	µg/L	0.5	<0.5
N-nitroso-di-n-butylamine (NDBA)	µg/L	1	<1
N-nitroso-diethylamine (NDEA)	µg/L	1	<1
N-nitroso-di-n-propylamine (NDPA)	µg/L	1	<1
N-nitroso-morpholine (NMOR)	µg/L	1	<1
N-nitroso-piperidine (NPIP)	µg/L	1	<1

Full 8270 SVOC in Water [AN420] Tested: 29/5/2026 (continued)

			BH1M-1
			WATER
			-
			28/5/2026
PARAMETER	UOM	LOR	SE302944.001
N-nitroso-pyrrolidine (NPYR)	µg/L	1	<1
4-amino biphenyl	µg/L	1	<1
Acetophenone	µg/L	1	<1
1,3-dinitrobenzene	µg/L	1	<1
2,4-dinitrotoluene	µg/L	1	<1
2,6-dinitrotoluene	µg/L	1	<1
Isophorone	µg/L	1	<1
Nitrobenzene	µg/L	1	<1
p-(dimethylamino) azobenzene	µg/L	1	<1
Phenacetin	µg/L	1	<1
Pentachloronitrobenzene (quintozene)	µg/L	1	<1
Aniline	µg/L	5	<5
4-chloroaniline	µg/L	1	<1
2-nitroaniline	µg/L	1	<1
3-nitroaniline	µg/L	1	<1
4-nitroaniline	µg/L	1	<1
Diphenylamine	µg/L	1	<1
o-toluidine	µg/L	1	<1
5-nitro-o-toluidine	µg/L	1	<1
1-naphthylamine	µg/L	2	<2
2-naphthylamine	µg/L	2	<2
Bis(2-chloroethoxy) methane	µg/L	1	<1
Bis(2-chloroethyl) ether	µg/L	1	<1
Bis(2-chloroisopropyl) ether	µg/L	1	<1
4-chlorophenyl phenyl ether	µg/L	1	<1
4-bromophenyl phenyl ether	µg/L	1	<1
Methyl methanesulfonate	µg/L	1	<1
Ethyl methanesulfonate	µg/L	1	<1
Dibenzofuran	µg/L	1	<1
Benzyl alcohol	µg/L	1	<1
Safrole	µg/L	1	<1
Isosafrole Isomer 1	µg/L	1	<1
Isosafrole Isomer 2	µg/L	1	<1
1,4-naphthoquinone	µg/L	1	<1
Thionazin	µg/L	1	<1
3/4-methyl phenol (m/p-cresol)	µg/L	1	<1
2-methyl phenol (o-cresol)	µg/L	0.5	<0.5
2,6-dichlorophenol	µg/L	0.5	<0.5
2,3,4,6-tetrachlorophenol	µg/L	0.5	<0.5
2,4,5-trichlorophenol	µg/L	0.5	<0.5
4-chloro-3-methylphenol	µg/L	2	<2
2-chlorophenol	µg/L	0.5	<0.5
2,4-dichlorophenol	µg/L	0.5	<0.5
2,4-dimethylphenol	µg/L	0.5	<0.5
2-nitrophenol	µg/L	0.5	<0.5
Phenol	µg/L	0.5	<0.5
2,4,6-trichlorophenol	µg/L	0.5	<0.5
Pentachlorophenol	µg/L	0.5	<0.5
4-nitrophenol	µg/L	1	<1
Total Endosulfan (alpha+beta+sulfate)	µg/L	0.2	<0.2



ANALYTICAL RESULTS

SE302944 R1

Total Phenolics in Water [AN295] Tested: 29/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
			SE302944.001
PARAMETER	UOM	LOR	
Total Phenols	mg/L	0.05	<0.05

Anions by Ion Chromatography in Water [AN245] Tested: 29/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
			SE302944.001
PARAMETER	UOM	LOR	
Chloride	mg/L	0.05	25
Bromide	mg/L	0.05	0.15
Fluoride	mg/L	0.1	<0.10
Sulfate, SO4	mg/L	1	37
Nitrate Nitrogen, NO3-N	mg/L	0.005	<0.005

Alkalinity [AN135] Tested: 29/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
			SE302944.001
PARAMETER	UOM	LOR	
Bicarbonate Alkalinity as CaCO ₃	mg/L	5	85
Bicarbonate Alkalinity as HCO ₃	mg/L	5	100
Carbonate Alkalinity as CaCO ₃	mg/L	5	<5
Carbonate Alkalinity as CO ₃	mg/L	5	<5
Hydroxide Alkalinity as CaCO ₃	mg/L	5	<5
Hydroxide Alkalinity as OH	mg/L	5	<5
Total Alkalinity as CaCO ₃	mg/L	5	85
Carbonate Hardness as CaCO ₃ *	mg CaCO ₃ /L	2	85.376
Non-Carbonate Hardness as CaCO ₃ *	mg CaCO ₃ /L	2	-
Negative Hardness as CaCO ₃ *	mg CaCO ₃ /L	-100	-

Dissolved Oxygen by Membrane Electrode [AN176] Tested: 28/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
PARAMETER	UOM	LOR	SE302944.001
Temperature*	°C	-	18.9
Dissolved Oxygen**	mg/L	0.5	2.6
Dissolved Oxygen (percent saturation)**	%	1	27.8



ANALYTICAL RESULTS

SE302944 R1

Total and Volatile Suspended Solids (TSS / VSS) [AN114] Tested: 29/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
PARAMETER	UOM	LOR	SE302944.001
Total Suspended Solids Dried at 103-105°C	mg/L	5	170



ANALYTICAL RESULTS

SE302944 R1

Forms of Carbon [AN190] Tested: 29/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
			SE302944.001
PARAMETER	UOM	LOR	
Total Organic Carbon as NPOC	mg/L	0.2	1.6



ANALYTICAL RESULTS

SE302944 R1

Ammonia Nitrogen by Discrete Analyser [AN291] Tested: 28/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
			SE302944.001
PARAMETER	UOM	LOR	
Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	0.09



ANALYTICAL RESULTS

SE302944 R1

Calculation of Anion-Cation Balance (SAR Calc) [AN121] Tested: 2/6/2026

			BH1M-1
			WATER
			-
			28/5/2026
PARAMETER	UOM	LOR	SE302944.001
Sum of Ions*	mg/L	10	219
Anion-Cation Balance	%	-100	2.02
TFSS*	mg/L	10	219
Sodium Adsorption Ratio*	No unit	0.1	2.7



ANALYTICAL RESULTS

SE302944 R1

Nitrite in Water [AN277] Tested: 28/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
PARAMETER	UOM	LOR	SE302944.001
Nitrite Nitrogen, NO2 as N	mg/L	0.005	<0.005
Total Oxidised Nitrogen, NOx-N	mg/L	0.005	0.006



ANALYTICAL RESULTS

SE302944 R1

TKN Kjeldahl Digestion by Discrete Analyser [AN281/292] Tested: 29/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
PARAMETER	UOM	LOR	SE302944.001
Total Kjeldahl Nitrogen	mg/L	0.05	0.25
Total Nitrogen (calc)	mg/L	0.05	0.26



ANALYTICAL RESULTS

SE302944 R1

Total Phosphorus by Kjeldahl Digestion DA in Water [AN279/AN293] Tested: 29/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
			SE302944.001
PARAMETER	UOM	LOR	
Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	0.07



ANALYTICAL RESULTS

SE302944 R1

Filterable Reactive Phosphorus (FRP) [AN278] Tested: 28/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
			SE302944.001
PARAMETER	UOM	LOR	
Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 1/6/2026

PARAMETER	UOM	LOR	BH1M-1	BH3M-1	BH4M-1	QD1	QR1
			WATER	WATER	WATER	WATER	WATER
			- 28/5/2026 SE302944.001	- 28/5/2026 SE302944.002	- 28/5/2026 SE302944.003	- 28/5/2026 SE302944.004	- 28/5/2026 SE302944.005
Arsenic	µg/L	1	<1	<1	<1	<1	<1
Cadmium	µg/L	0.1	<0.1	0.1	<0.1	<0.1	<0.1
Chromium	µg/L	1	<1	<1	39	<1	<1
Copper	µg/L	1	<1	9	2	<1	<1
Lead	µg/L	1	<1	2	<1	<1	<1
Nickel	µg/L	1	32	6	<1	31	<1
Zinc	µg/L	5	14	69	<5	13	<5
Silver	µg/L	1	<1	<1	<1	<1	<1
Aluminium	µg/L	5	9	81	380	<5	<5
Antimony	µg/L	1	<1	-	-	-	-
Barium	µg/L	1	23	-	-	-	-
Beryllium	µg/L	1	<1	-	-	-	-
Boron	µg/L	5	66	-	-	-	-
Cobalt	µg/L	1	4	-	-	-	-
Iron	µg/L	5	3400	-	-	-	-
Manganese	µg/L	1	230	-	-	-	-
Molybdenum	µg/L	1	3	-	-	-	-
Selenium	µg/L	1	<1	-	-	-	-
Strontium	µg/L	1	81	-	-	-	-
Uranium	µg/L	0.5	<0.5	-	-	-	-
Vanadium	µg/L	1	<1	-	-	-	-



ANALYTICAL RESULTS

SE302944 R1

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 1/6/2026

			BH1M-1	BH3M-1	BH4M-1	QD1	QR1
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			28/5/2026	28/5/2026	28/5/2026	28/5/2026	28/5/2026
PARAMETER	UOM	LOR	SE302944.001	SE302944.002	SE302944.003	SE302944.004	SE302944.005
Mercury, Hg	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Redox Potential (Eh) in water [AN240] Tested: 28/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
			SE302944.001
PARAMETER	UOM	LOR	
Eh of Sample Relative to Standard H+ Electrode***	mV	-500	233
Temperature of Sample*	°C	0.1	20.2

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples [AN404] Tested: 29/5/2026

			BH1M-1
			WATER
			-
			28/5/2026
PARAMETER	UOM	LOR	SE302944.001
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.02
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.02
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01
Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.01
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01
Perfluorotridecanoic acid (PFTTrDA)	µg/L	0.01	<0.01
Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01
Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	µg/L	0.01	<0.01
Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	<0.01
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	µg/L	0.01	<0.01
N-Methylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05
N-Ethylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05
2-(N-Methylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05
Sum of PFOS and PFHxS	µg/L	0.01	<0.01
Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	0.01
Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	0.01
Sum of PFAS A	µg/L	0.01	0.03
Sum of PFAS B	µg/L	0.01	<0.01
Sum of PFAS C	µg/L	0.01	0.02
Sum of Positive PFAS	µg/L	0.01	0.05



ANALYTICAL RESULTS

SE302944 R1

Enterococci in Water [AN705] Tested: As stated below

			BH1M-1
			WATER
			-
			28/5/2026
			SE302944.001
PARAMETER	UOM	LOR	
Date & Time Processed*	No unit	-	2026-05-28 16:14
Intestinal Enterococci*	CFU/100mL	1	3
Notes*	No unit	-	Estimate



ANALYTICAL RESULTS

SE302944 R1

E. coli and Thermotolerant coliforms in Water (CFU) [AN703] Tested: As stated below

			BH1M-1
			WATER
			-
			28/5/2026
PARAMETER	UOM	LOR	SE302944.001
Date & Time Processed*	No unit	-	2026-05-28 16:14
E. coli	CFU/100mL	1	14
Thermotolerant Coliforms	CFU/100mL	1	14

METHOD

METHODOLOGY SUMMARY

- AN020** Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
- AN101** pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode (glass plus reference electrode) and is calibrated against 3 buffers purchased commercially. For soils, an extract with water is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
- AN106** Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as µmhos/cm or µS/cm @ 25°C. For soils, an extract with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Total Dissolved Salts can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. SGS use 0.6. Reference APHA 2510 B.
- AN106** Salinity may be calculated in terms of NaCl from the sample conductivity. This assumes all soluble salts present, measured by the conductivity, are present as NaCl.
- AN113** Total Dissolved Solids: A well-mixed filtered sample of known volume is evaporated to dryness at 180°C and the residue weighed. Approximate methods for correlating chemical analysis with dissolved solids are available. Reference APHA 2540 C.
- AN113** The Total Dissolved Solids residue may also be ignited at 550 C and volatile TDS (Organic TDS) and non-volatile TDS (Inorganic) can be determined.
- AN114** Total Suspended and Volatile Suspended Solids: The sample is homogenised by shaking and a known volume is filtered through a pre-weighed GF/C filter paper and washed well with deionised water. The filter paper is dried and reweighed. The TSS is the residue retained by the filter per unit volume of sample. Reference APHA 2540 D. Internal Reference AN114
- AN119** Turbidity by Nephelometry: Small particles in a light beam scatter light at a range of angles. A turbidimeter measures this scatter and reports results compared to turbidity standards, in NTU. This procedure is not suitable for very dark coloured liquids or samples with high solids because light absorption causes artificially low light scatter and low turbidity. Reference APHA 2130B.
- AN121** This method is used to calculation the balance of major Anions and Cations in water samples and converts major ion concentration to milliequivalents and then summed. Anions sum and Cation sum is calculated as a difference and expressed as a percentage.
- AN135** Alkalinity (and forms of) by Titration: The sample is titrated with standard acid to pH 8.3 (P titre) and pH 4.5 (T titre) and permanent and/or total alkalinity calculated. The results are expressed as equivalents of calcium carbonate or recalculated as bicarbonate, carbonate and hydroxide. Reference APHA 2320. Internal Reference AN135
- AN176** Dissolved Oxygen: DO can also be measured directly using an oxygen permeable membrane electrode and meter. Under steady state conditions the current is directly proportional to the DO conc. DO can also be measured via Luminescent dissolved oxygen probes (LDO) which also operates using an oxygen permeable membrane with an oxygen sensitive luminescent dye making up the second probe layer. The presence of oxygen causes changes in the lifetime and intensity of luminescence, which are then quantified. Zero headspace is required for sample analysis, if headspace is observed report comment will be recorded. Reference APHA 4500-C, G & O.
- AN190** TOC and DOC in Water: A homogenised micro portion of sample is injected into a heated reaction chamber packed with an oxidative catalyst that converts organic carbon to carbon dioxide. The CO₂ is measured using a non-dispersive infrared detector. The process is fully automated in a commercially available analyser. If required a sugar value can be calculated from the TOC result. Reference APHA 5310 B.
- AN190** Chemical oxygen demand can be calculated/estimated based on the O₂/C relation as 2.67*NPOC (TOC). This is an estimate only and the factor will vary with sample matrix so results should be interpreted with caution.
- AN240** Oxidation-Reduction Potential (Eh): Electrometric measurements are made by potentiometric determination of electron activity (or intensity) with an inert indicator electrode and a suitable reference electrode. At redox equilibrium, the potential difference between the two electrodes equals the redox potential of the system. This measurement is then corrected for the difference between the potential of the reference electrode and that of the standard hydrogen electrode.

AN245	Anions by Ion Chromatography: A water sample is injected into an eluent stream that passes through the ion chromatographic system where the anions of interest ie Br, Cl, NO ₂ , NO ₃ and SO ₄ are separated on their relative affinities for the active sites on the column packing material. Changes to the conductivity and the UV-visible absorbance of the eluent enable identification and quantitation of the anions based on their retention time and peak height or area. APHA 4110 B
AN277	Nitrite ions, when reacted with a reagent containing sulphanilamide and N-(1-naphthyl)-ethylenediamine dihydrochloride produce a highly coloured azo dye that is measured photometrically at 540nm.
AN278	Filterable Reactive Phosphorus by DA (determined on filtered sample): Orthophosphate reacts with ammonium molybdate (Mo VI) and potassium antimonyl tartrate (Sb III) in acid medium to form an antimony-phosphomolybdate complex. This complex is subsequently reduced with ascorbic acid to form a blue colour and the absorbance is read at 880 nm. The sensitivity of the automated method is 10-20 times that of the macro method. Reference APHA 4500-P F
AN279/AN293(Sydney)	The sample is digested with Sulphuric acid, K ₂ SO ₄ and CuSO ₄ . All forms of phosphorus are converted into orthophosphate. The digest is cooled and placed on the discrete analyser for colorimetric analysis.
AN281	An unfiltered water or soil sample is first digested in a block digester with sulfuric acid, K ₂ SO ₄ and CuSO ₄ . The ammonia produced following digestion is then measured colourimetrically using the Discrete Analyser. A portion of the digested sample is buffered to an alkaline pH, and interfering cations are complexed. The ammonia then reacts with salicylate and hypochlorite to give a blue colour whose absorbance is measured at 660nm and compared with calibration standards. This is proportional to the concentration of Total Kjeldahl Nitrogen in the original sample.
AN291	Ammonia in solution reacts with hypochlorite ions from Sodium Dichloroisocyanate, and salicylate in the presence of Sodium Nitroprusside to form indophenol blue and measured at 660 nm by Discrete Analyser.
AN295	The water sample or extract of sample is distilled in a phosphoric acid stream. Phenolic compounds in the distillate react with a reagent stream of potassium hexacyanoferrate(III) and 4-Amino-2,3-dimethyl-3-pyrazolin-5-one in an alkaline medium to form a coloured complex which is analysed spectrophotometrically onboard a continuous flow analyser.
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).
AN320	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components .
AN320	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements . Reference APHA 3120 B.
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 Recoverable 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.

AN404

This method covers the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid and biosolid samples and solvent extracts. After spiking with isotopically labelled quantification surrogates and sample extracts are analysed by liquid chromatography/mass spectrometry (LC-MS/MS). PFAS concentrations are determined by isotope dilution quantification. PFOS and PFHXS are determined as the total of linear and branched isomers.

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.

AN703

A known volume of water is passed through a membrane of known pore size. The membrane is placed on a selective agar plate and incubated. The volume of sample filtered depends upon the expected count. Referenced to AS4276.5.

AN705

A known volume of water is passed through a membrane of known pore size. The membrane is placed on a selective agar plate and incubated. The volume of sample filtered depends upon the expected count. Referenced to AS/NZS4276.9 (ISO 7899-2:2000 MOD).

Calculation

Free and Total Carbon Dioxide may be calculated using alkalinity forms only when the samples TDS is <500mg/L. If TDS is >500mg/L free or total carbon dioxide cannot be reported . APHA4500CO2 D.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
NAD	No Asbestos Detected.	LNR	Sample listed, but not received.		
		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:

- 1 Bq is equivalent to 27 pCi
- 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

SE302944 R1

CLIENT DETAILS

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Project **E27082, 40-56 Ourimbah Road Mosman**
Order Number **E27082**
Samples 7

LABORATORY DETAILS

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SGS Reference **SE302944 R1**
Date Received 28 May 2026
Date Reported 03 Jun 2026

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	7 Water	Type of documentation received	COC/Email
Date documentation received	28/05/2026	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	9.4°C
Sample container provider	SGS	Turnaround time requested	Three Days
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		



HOLDING TIME SUMMARY

SE302944 R1

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

Alkalinity

Method: ME-(AU)-[ENV]AN135

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390248	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	29 May 2026

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390110	28 May 2026	28 May 2026	25 Jun 2026	28 May 2026	25 Jun 2026	28 May 2026

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390175	28 May 2026	28 May 2026	25 Jun 2026	29 May 2026	25 Jun 2026	29 May 2026

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390107	28 May 2026	28 May 2026	25 Jun 2026	28 May 2026	25 Jun 2026	28 May 2026
BH3M-1	SE302944.002	LB390107	28 May 2026	28 May 2026	25 Jun 2026	28 May 2026	25 Jun 2026	28 May 2026
BH4M-1	SE302944.003	LB390107	28 May 2026	28 May 2026	25 Jun 2026	28 May 2026	25 Jun 2026	28 May 2026

Dissolved Oxygen by Membrane Electrode

Method: ME-(AU)-[ENV]AN176

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390104	28 May 2026	28 May 2026	29 May 2026	28 May 2026	29 May 2026	28 May 2026

E. coli and Thermotolerant coliforms in Water (CFU)

Method: ME-(AU)-[ENV]AN703

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390202	28 May 2026	28 May 2026	29 May 2026	28 May 2026	31 May 2026	28 May 2026

Enterococci in Water

Method: ME-(AU)-[ENV]AN705

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390202	28 May 2026	28 May 2026	29 May 2026	28 May 2026	31 May 2026	28 May 2026

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390110	28 May 2026	28 May 2026	25 Jun 2026	28 May 2026	25 Jun 2026	28 May 2026

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390193	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	04 Jun 2026	01 Jun 2026

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390146	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026

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
BH1M-1	SE302944.001	LB390412	28 May 2026	28 May 2026	25 Jun 2026	01 Jun 2026	25 Jun 2026	02 Jun 2026
BH3M-1	SE302944.002	LB390412	28 May 2026	28 May 2026	25 Jun 2026	01 Jun 2026	25 Jun 2026	02 Jun 2026
BH4M-1	SE302944.003	LB390412	28 May 2026	28 May 2026	25 Jun 2026	01 Jun 2026	25 Jun 2026	02 Jun 2026
QD1	SE302944.004	LB390412	28 May 2026	28 May 2026	25 Jun 2026	01 Jun 2026	25 Jun 2026	02 Jun 2026
QR1	SE302944.005	LB390412	28 May 2026	28 May 2026	25 Jun 2026	01 Jun 2026	25 Jun 2026	02 Jun 2026

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390319	28 May 2026	28 May 2026	24 Nov 2026	01 Jun 2026	24 Nov 2026	02 Jun 2026
BH3M-1	SE302944.002	LB390319	28 May 2026	28 May 2026	24 Nov 2026	01 Jun 2026	24 Nov 2026	02 Jun 2026
BH4M-1	SE302944.003	LB390319	28 May 2026	28 May 2026	24 Nov 2026	01 Jun 2026	24 Nov 2026	02 Jun 2026

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Name	Sample No.	QC Ref
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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

Nitrite in Water (continued)

Method: ME-(AU)-ENVJAN277

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390110	28 May 2026	28 May 2026	01 Jun 2026	28 May 2026	01 Jun 2026	28 May 2026

OC Pesticides in Water

Method: ME-(AU)-ENVJAN277

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
BH3M-1	SE302944.002	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
BH4M-1	SE302944.003	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
QD1	SE302944.004	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
QR1	SE302944.005	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026

OP Pesticides in Water

Method: ME-(AU)-ENVJAN277

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
BH3M-1	SE302944.002	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
BH4M-1	SE302944.003	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
QD1	SE302944.004	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
QR1	SE302944.005	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-ENVJAN277

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
BH3M-1	SE302944.002	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	29 May 2026
BH4M-1	SE302944.003	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	29 May 2026
QD1	SE302944.004	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
QR1	SE302944.005	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026

PCBs in Water

Method: ME-(AU)-ENVJAN277

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
BH3M-1	SE302944.002	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
BH4M-1	SE302944.003	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
QD1	SE302944.004	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
QR1	SE302944.005	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-ENVJAN404

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390166	28 May 2026	28 May 2026	25 Jun 2026	29 May 2026	26 Jun 2026	01 Jun 2026

pH in water

Method: ME-(AU)-ENVJAN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390107	28 May 2026	28 May 2026	29 May 2026	28 May 2026	29 May 2026	28 May 2026
BH3M-1	SE302944.002	LB390107	28 May 2026	28 May 2026	29 May 2026	28 May 2026	29 May 2026	28 May 2026
BH4M-1	SE302944.003	LB390107	28 May 2026	28 May 2026	29 May 2026	28 May 2026	29 May 2026	28 May 2026

Redox Potential (Eh) in water

Method: ME-(AU)-ENVJAN240

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390106	28 May 2026	28 May 2026	29 May 2026	28 May 2026	29 May 2026	28 May 2026

TKN Kjeldahl Digestion by Discrete Analyser

Method: ME-(AU)-ENVJAN281/292

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390176	28 May 2026	28 May 2026	25 Jun 2026	29 May 2026	25 Jun 2026	01 Jun 2026

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-ENVJAN114

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390264	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	05 Jun 2026	29 May 2026

Total Dissolved Solids (TDS) in water

Method: ME-(AU)-ENVJAN113

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390192	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	04 Jun 2026	01 Jun 2026
BH3M-1	SE302944.002	LB390192	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	04 Jun 2026	01 Jun 2026



HOLDING TIME SUMMARY

SE302944 R1

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

Total Dissolved Solids (TDS) in water (continued)

Method: ME-(AU)-[ENV]AN113

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH4M-1	SE302944.003	LB390192	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	04 Jun 2026	01 Jun 2026

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390178	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	29 May 2026

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390176	28 May 2026	28 May 2026	25 Jun 2026	29 May 2026	25 Jun 2026	01 Jun 2026

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
BH1M-1	SE302944.001	LB390313	28 May 2026	28 May 2026	24 Nov 2026	01 Jun 2026	24 Nov 2026	01 Jun 2026
BH3M-1	SE302944.002	LB390313	28 May 2026	28 May 2026	24 Nov 2026	01 Jun 2026	24 Nov 2026	01 Jun 2026
BH4M-1	SE302944.003	LB390313	28 May 2026	28 May 2026	24 Nov 2026	01 Jun 2026	24 Nov 2026	01 Jun 2026
QD1	SE302944.004	LB390313	28 May 2026	28 May 2026	24 Nov 2026	01 Jun 2026	24 Nov 2026	01 Jun 2026
QR1	SE302944.005	LB390313	28 May 2026	28 May 2026	24 Nov 2026	01 Jun 2026	24 Nov 2026	01 Jun 2026

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
BH1M-1	SE302944.001	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
BH3M-1	SE302944.002	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	29 May 2026
BH4M-1	SE302944.003	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	29 May 2026
QD1	SE302944.004	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026
QR1	SE302944.005	LB390145	28 May 2026	28 May 2026	04 Jun 2026	29 May 2026	08 Jul 2026	01 Jun 2026

Turbidity

Method: ME-(AU)-[ENV]AN119

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390098	28 May 2026	28 May 2026	29 May 2026	28 May 2026	29 May 2026	28 May 2026
BH3M-1	SE302944.002	LB390098	28 May 2026	28 May 2026	29 May 2026	28 May 2026	29 May 2026	28 May 2026
BH4M-1	SE302944.003	LB390098	28 May 2026	28 May 2026	29 May 2026	28 May 2026	29 May 2026	28 May 2026

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	02 Jun 2026
BH3M-1	SE302944.002	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	02 Jun 2026
BH4M-1	SE302944.003	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	02 Jun 2026
QD1	SE302944.004	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	01 Jun 2026
QR1	SE302944.005	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	01 Jun 2026
GW-TB1	SE302944.006	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	01 Jun 2026
GW-TS1	SE302944.007	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	01 Jun 2026

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M-1	SE302944.001	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	01 Jun 2026
BH3M-1	SE302944.002	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	01 Jun 2026
BH4M-1	SE302944.003	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	01 Jun 2026
QD1	SE302944.004	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	01 Jun 2026
QR1	SE302944.005	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	01 Jun 2026
GW-TB1	SE302944.006	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	02 Jun 2026
GW-TS1	SE302944.007	LB390234	28 May 2026	28 May 2026	11 Jun 2026	29 May 2026	11 Jun 2026	02 Jun 2026

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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	89
2-fluorobiphenyl (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	99
d14-p-terphenyl (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	100
d5-nitrobenzene (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	87
d5-phenol (Surrogate)	BH1M-1	SE302944.001	%	20 - 130%	66

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	84

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	83
d14-p-terphenyl (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	89
d5-nitrobenzene (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	76

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	83
	BH3M-1	SE302944.002	%	40 - 130%	83
	BH4M-1	SE302944.003	%	40 - 130%	82
d14-p-terphenyl (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	89
	BH3M-1	SE302944.002	%	40 - 130%	100
	BH4M-1	SE302944.003	%	40 - 130%	94
d5-nitrobenzene (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	76
	BH3M-1	SE302944.002	%	40 - 130%	83
	BH4M-1	SE302944.003	%	40 - 130%	83

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	84

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
(13C2_PFTeDA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	10 - 150%	59
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	40 - 300%	84
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	40 - 300%	78
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	40 - 300%	74
(13C2-PFDoA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	10 - 150%	83
(13C3-PFBS) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	40 - 150%	92
(13C3-PFHxS) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	40 - 150%	90
(13C4_PFOA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	40 - 150%	82
(13C4-PFBA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	5 - 150%	85
(13C4-PFHpA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	40 - 150%	87
(13C5-PFHxA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	40 - 150%	92
(13C5-PFPeA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	35 - 150%	59
(13C6-PFDA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	40 - 150%	84
(13C7-PFUDa) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	30 - 150%	84
(13C8-PFOS) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	40 - 150%	70
(13C8-PFOA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	20 - 150%	51
(13C9-PFNA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	40 - 150%	96
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	10 - 150%	36
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	30 - 170%	30
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	10 - 150%	33
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	20 - 150%	36
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	10 - 150%	42
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery Standard	BH1M-1	SE302944.001	%	10 - 150%	36

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units
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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 identifier 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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	103
	BH3M-1	SE302944.002	%	40 - 130%	103
	BH4M-1	SE302944.003	%	40 - 130%	102
	QD1	SE302944.004	%	40 - 130%	102
	QR1	SE302944.005	%	40 - 130%	101
	GW-TB1	SE302944.006	%	40 - 130%	101
	GW-TS1	SE302944.007	%	40 - 130%	93
d4-1,2-dichloroethane (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	83
	BH3M-1	SE302944.002	%	40 - 130%	86
	BH4M-1	SE302944.003	%	40 - 130%	87
	QD1	SE302944.004	%	40 - 130%	87
	QR1	SE302944.005	%	40 - 130%	86
	GW-TB1	SE302944.006	%	40 - 130%	87
	GW-TS1	SE302944.007	%	40 - 130%	100
d8-toluene (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	86
	BH3M-1	SE302944.002	%	40 - 130%	87
	BH4M-1	SE302944.003	%	40 - 130%	86
	QD1	SE302944.004	%	40 - 130%	87
	QR1	SE302944.005	%	40 - 130%	86
	GW-TB1	SE302944.006	%	40 - 130%	87
	GW-TS1	SE302944.007	%	40 - 130%	102

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	103
	BH3M-1	SE302944.002	%	40 - 130%	103
	BH4M-1	SE302944.003	%	40 - 130%	102
	QD1	SE302944.004	%	40 - 130%	102
	QR1	SE302944.005	%	40 - 130%	101
d4-1,2-dichloroethane (Surrogate)	BH1M-1	SE302944.001	%	60 - 130%	83
	BH3M-1	SE302944.002	%	60 - 130%	86
	BH4M-1	SE302944.003	%	60 - 130%	87
	QD1	SE302944.004	%	60 - 130%	87
	QR1	SE302944.005	%	60 - 130%	86
d8-toluene (Surrogate)	BH1M-1	SE302944.001	%	40 - 130%	86
	BH3M-1	SE302944.002	%	40 - 130%	87
	BH4M-1	SE302944.003	%	40 - 130%	86
	QD1	SE302944.004	%	40 - 130%	87
	QR1	SE302944.005	%	40 - 130%	86

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.

Alkalinity

Method: ME-(AU)-[ENV]AN135

Sample Number	Parameter	Units	LOR	Result
LB390248.001	Bicarbonate Alkalinity as CaCO ₃	mg/L	5	<5
	Carbonate Alkalinity as CaCO ₃	mg/L	5	<5
	Total Alkalinity as CaCO ₃	mg/L	5	<5

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Sample Number	Parameter	Units	LOR	Result
LB390110.001	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	<0.01

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result
LB390175.001	Chloride	mg/L	0.05	<0.05
	Bromide	mg/L	0.05	<0.05
	Fluoride	mg/L	0.1	<0.10
	Sulfate, SO ₄	mg/L	1	<1.0
	Nitrate Nitrogen, NO ₃ -N	mg/L	0.005	<0.005

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Number	Parameter	Units	LOR	Result
LB390107.001	Conductivity @ 25 C	µS/cm	2	<2

Dissolved Oxygen by Membrane Electrode

Method: ME-(AU)-[ENV]AN176

Sample Number	Parameter	Units	LOR	Result
LB390104.001	Dissolved Oxygen**	mg/L	0.5	<0.5

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Number	Parameter	Units	LOR	Result
LB390110.001	Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Number	Parameter	Units	LOR	Result
LB390193.001	Total Organic Carbon as NPOC	mg/L	0.2	<0.2

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB390146.003	01-PAHs	Acenaphthene	µg/L	<0.1
		Acenaphthylene	µg/L	<0.1
		Anthracene	µg/L	<0.1
		Benzo(a)anthracene	µg/L	<0.1
		Benzo(b&j&k)fluoranthene	µg/L	<0.2
		Benzo(a)pyrene	µg/L	<0.1
		Chrysene	µg/L	<0.1
		Dibenzo(ah)anthracene	µg/L	<0.1
		Fluoranthene	µg/L	<0.1
		Fluorene	µg/L	<0.1
		1-methylnaphthalene	µg/L	<0.1
		2-methylnaphthalene	µg/L	<0.1
		Naphthalene	µg/L	<0.1
		Phenanthrene	µg/L	<0.1
		Pyrene	µg/L	<0.1
		2-acetylaminofluorene	µg/L	<0.5
		7,12-dimethyl-benz(a)anthracene	µg/L	<0.5
		3-methylcholanthrene	µg/L	<0.5
	02-OCs	Aldrin	µg/L	<0.1
		Alpha-BHC	µg/L	<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.

Full 8270 SVOC in Water (continued)

Method: ME-(AU)-ENVJAN420

Sample Number		Parameter	Units	LOR	Result
LB390146.003	02-OCs	Beta-BHC	µg/L	0.1	<0.1
		Delta-BHC	µg/L	0.1	<0.1
		Gamma-BHC (Lindane)	µg/L	0.1	<0.1
		p,p-DDD	µg/L	0.1	<0.1
		p,p-DDE	µg/L	0.1	<0.1
		p,p-DDT	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Alpha-endosulfan	µg/L	0.1	<0.1
		Beta-endosulfan	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
		Alpha-chlordane	µg/L	0.1	<0.1
		Gamma-chlordane	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
	03-OPs	Azinphos-methyl (Guthion)	µg/L	0.2	<0.2
		Bromophos ethyl	µg/L	0.2	<0.2
		Carbophenothion	µg/L	0.5	<0.5
		Chlorfenvinphos-cis	µg/L	5	<5
		Chlorfenvinphos-trans	µg/L	0.5	<0.5
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Chlorpyrifos-methyl	µg/L	0.5	<0.5
		Co-Ral (Coumaphos)	µg/L	0.5	<0.5
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Dichlorvos	µg/L	0.5	<0.5
		Demeton-S-methyl	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Disulfoton (Di-syston)	µg/L	0.5	<0.5
		EPN*	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Ethoprophos (ethoprop or prophos)	µg/L	0.5	<0.5
		Famphur (Famophos)	µg/L	0.5	<0.5
		Fenamiphos (Phenamiphos)	µg/L	0.5	<0.5
		Fenchlorophos (RonneI)	µg/L	0.5	<0.5
		Fenitrothion	µg/L	0.2	<0.2
		Fenthion	µg/L	0.5	<0.5
		Malathion (Maldison)	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5
		Mevinphos-cis/trans	µg/L	1	<1
		o,o,o-triethyl phosphorothioate	µg/L	0.5	<0.5
		Parathion ethyl (Parathion)	µg/L	0.2	<0.2
		Parathion methyl	µg/L	0.5	<0.5
		Phorate	µg/L	0.5	<0.5
		Pirimiphos-ethyl	µg/L	0.5	<0.5
		Pirimiphos-methyl	µg/L	0.5	<0.5
		Profenofos	µg/L	0.5	<0.5
		Prothiophos (Tokuthion)*	µg/L	0.5	<0.5
		Sulfotepp	µg/L	0.5	<0.5
04-PCB UPAC(7) Congeners	PCB Congener C28	µg/L	0.1	<0.1	
	PCB Congener C52	µg/L	0.1	<0.1	
	PCB Congener C101	µg/L	0.1	<0.1	
	PCB Congener C118	µg/L	0.1	<0.1	
	PCB Congener C138	µg/L	0.1	<0.1	
	PCB Congener C153	µg/L	0.1	<0.1	
	PCB Congener C180	µg/L	0.1	<0.1	
05-SVCH (Cl Benzenes, Hydrocarbons & VOCs)	Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	
	1,2-dichlorobenzene	µg/L	0.5	<0.5	
	1,3-dichlorobenzene	µg/L	0.5	<0.5	

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Full 8270 SVOC in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB390146.003	05-SVCH (CI Benzenes, Hydrocarbons & VOCs)	1,4-dichlorobenzene	µg/L	0.5	<0.5
		Hexachlorobutadiene	µg/L	0.5	<0.5
		Hexachlorocyclopentadiene	µg/L	2	<2
		Hexachloroethane	µg/L	0.5	<0.5
		Hexachloropropene	µg/L	0.5	<0.5
		Pentachlorobenzene	µg/L	0.5	<0.5
		Pentachloroethane	µg/L	0.5	<0.5
		1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	µg/L	1	<1
		1,2,3,4-tetrachlorobenzene	µg/L	0.5	<0.5
		1/2-Chloronaphthalene	µg/L	1	<1
		1,2,4-trichlorobenzene	µg/L	0.5	<0.5
	06-Phthalates	Bis(2-ethylhexyl)phthalate	µg/L	10	<10
		Bis(2-ethylhexyl)adipate	µg/L	1	<1
		Butyl benzyl phthalate	µg/L	1	<1
		Di-n-butyl phthalate	µg/L	10	<10
		Diethyl phthalate	µg/L	5	<5
		Dimethyl phthalate	µg/L	1	<1
		Di-n-octyl phthalate	µg/L	1	<1
	07-Carbamates	Carbofuran	µg/L	0.5	<0.5
		Carbaryl	µg/L	0.5	<0.5
	08-Herbicides (normal)	Trifluralin	µg/L	0.5	<0.5
	09-Nitrosamines	N-nitroso-di-n-butylamine (NDBA)	µg/L	1	<1
		N-nitroso-diethylamine (NDEA)	µg/L	1	<1
		N-nitroso-di-n-propylamine (NDPA)	µg/L	1	<1
		N-nitroso-morpholine (NMOR)	µg/L	1	<1
		N-nitroso-piperidine (NPIP)	µg/L	1	<1
		N-nitroso-pyrrolidine (NPYR)	µg/L	1	<1
		4-amino biphenyl	µg/L	1	<1
	10-Nitroaromatics and Ketones	Acetophenone	µg/L	1	<1
		1,3-dinitrobenzene	µg/L	1	<1
		2,4-dinitrotoluene	µg/L	1	<1
		2,6-dinitrotoluene	µg/L	1	<1
		Isophorone	µg/L	1	<1
		Nitrobenzene	µg/L	1	<1
		p-(dimethylamino) azobenzene	µg/L	1	<1
		Phenacetin	µg/L	1	<1
		Pentachloronitrobenzene (quintozene)	µg/L	1	<1
	11-Anilines and Amines	Aniline	µg/L	5	<5
		4-chloroaniline	µg/L	1	<1
		2-nitroaniline	µg/L	1	<1
		3-nitroaniline	µg/L	1	<1
		4-nitroaniline	µg/L	1	<1
		Diphenylamine	µg/L	1	<1
		o-toluidine	µg/L	1	<1
		5-nitro-o-toluidine	µg/L	1	<1
	12-Haloethers	1-naphthylamine	µg/L	2	<2
		2-naphthylamine	µg/L	2	<2
		Bis(2-chloroethoxy) methane	µg/L	1	<1
		Bis(2-chloroethyl) ether	µg/L	1	<1
		Bis(2-chloroisopropyl) ether	µg/L	1	<1
		4-chlorophenyl phenyl ether	µg/L	1	<1
		4-bromophenyl phenyl ether	µg/L	1	<1
	13-Other SVOCs	Methyl methanesulfonate	µg/L	1	<1
		Ethyl methanesulfonate	µg/L	1	<1
		Dibenzofuran	µg/L	1	<1
		Benzyl alcohol	µg/L	1	<1
		Safrole	µg/L	1	<1
		Isosafrole Isomer 1	µg/L	1	<1
		Isosafrole Isomer 2	µg/L	1	<1
		1,4-naphthoquinone	µg/L	1	<1
		Thionazin	µg/L	1	<1

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Full 8270 SVOC in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB390146.003	14-Speciated Routine Phenols	3/4-methyl phenol (m/p-cresol)	µg/L	1	<1
		2-methyl phenol (o-cresol)	µg/L	0.5	<0.5
		2,6-dichlorophenol	µg/L	0.5	<0.5
		2,4,5-trichlorophenol	µg/L	0.5	<0.5
		4-chloro-3-methylphenol	µg/L	2	<2
		2-chlorophenol	µg/L	0.5	<0.5
		2,4-dichlorophenol	µg/L	0.5	<0.5
		2,4-dimethylphenol	µg/L	0.5	<0.5
		2-nitrophenol	µg/L	0.5	<0.5
		Phenol	µg/L	0.5	<0.5
		2,4,6-trichlorophenol	µg/L	0.5	<0.5
		Pentachlorophenol	µg/L	0.5	<0.5
	Surrogates	4-nitrophenol	µg/L	1	<1
		d5-phenol (Surrogate)	%	-	61
		d5-nitrobenzene (Surrogate)	%	-	75
		2-fluorobiphenyl (Surrogate)	%	-	81
		2,4,6-Tribromophenol (Surrogate)	%	-	78
		d14-p-terphenyl (Surrogate)	%	-	94

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB390412.001	Mercury, Hg	mg/L	0.0001	<0.0001

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Number	Parameter	Units	LOR	Result
LB390319.001	Calcium, Ca	mg/L	0.2	<0.2
	Magnesium, Mg	mg/L	0.1	<0.1
	Sodium, Na	mg/L	0.5	<0.5
	Potassium, K	mg/L	0.1	<0.1
	Silicon, Si*	mg/L	0.05	<0.05

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Number	Parameter	Units	LOR	Result
LB390110.001	Nitrite Nitrogen, NO ₂ as N	mg/L	0.005	<0.005

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB390145.001	Alpha BHC	µg/L	0.2	<0.2
	Hexachlorobenzene (HCB)	µg/L	0.2	<0.2
	Beta BHC	µg/L	0.2	<0.2
	Lindane (gamma BHC)	µg/L	0.2	<0.2
	Delta BHC	µg/L	0.2	<0.2
	Heptachlor	µg/L	0.2	<0.2
	Aldrin	µg/L	0.2	<0.2
	Heptachlor epoxide	µg/L	0.2	<0.2
	Gamma Chlordane	µg/L	0.2	<0.2
	Alpha Chlordane	µg/L	0.2	<0.2
	Chlordane (alpha + gamma chlordane)	µg/L	0.2	<0.2
	Alpha Endosulfan	µg/L	0.2	<0.2
	p,p'-DDE	µg/L	0.2	<0.2
	Dieldrin	µg/L	0.2	<0.2
	Endrin	µg/L	0.2	<0.2
	Beta Endosulfan	µg/L	0.2	<0.2
	p,p'-DDD	µg/L	0.2	<0.2
	Endrin aldehyde	µg/L	0.2	<0.2
	Endosulfan sulphate	µg/L	0.2	<0.2
	p,p'-DDT	µg/L	0.2	<0.2
	Endrin ketone	µg/L	0.2	<0.2
	Methoxychlor	µg/L	0.2	<0.2

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OC Pesticides in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB390145.001	Mirex	µg/L	0.2	<0.2

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB390145.001	Azinphos-methyl	µg/L	0.5	<0.5
	Bromophos Ethyl	µg/L	0.5	<0.5
	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.5	<0.5
	Diazinon (Dimpylate)	µg/L	0.5	<0.5
	Dichlorvos	µg/L	0.5	<0.5
	Dimethoate	µg/L	0.5	<0.5
	Ethion	µg/L	0.5	<0.5
	Fenitrothion	µg/L	0.5	<0.5
	Malathion	µg/L	0.5	<0.5
	Methidathion	µg/L	0.5	<0.5
	Parathion-ethyl (Parathion)	µg/L	0.5	<0.5

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB390145.001	Naphthalene	µg/L	0.5	<0.5
	2-methylnaphthalene	µg/L	0.5	<0.5
	1-methylnaphthalene	µg/L	0.5	<0.5
	Acenaphthylene	µg/L	0.5	<0.5
	Acenaphthene	µg/L	0.5	<0.5
	Fluorene	µg/L	0.5	<0.5
	Phenanthrene	µg/L	0.5	<0.5
	Anthracene	µg/L	0.5	<0.5
	Fluoranthene	µg/L	0.5	<0.5
	Pyrene	µg/L	0.5	<0.5
	Benzo(a)anthracene	µg/L	0.5	<0.5
	Chrysene	µg/L	0.5	<0.5
	Benzo(b&j)fluoranthene	µg/L	0.5	<0.5
	Benzo(k)fluoranthene	µg/L	0.5	<0.5
	Benzo(b&j&k)fluoranthene	µg/L	0.5	<0.5
	Benzo(a)pyrene	µg/L	0.5	<0.5
	Indeno(1,2,3-cd)pyrene	µg/L	0.5	<0.5
	Dibenzo(ah)anthracene	µg/L	0.5	<0.5
	Benzo(ghi)perylene	µg/L	0.5	<0.5

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB390145.001	Arochlor 1016	µg/L	1	<1
	Arochlor 1221	µg/L	1	<1
	Arochlor 1232	µg/L	1	<1
	Arochlor 1242	µg/L	1	<1
	Arochlor 1248	µg/L	1	<1
	Arochlor 1254	µg/L	1	<1
	Arochlor 1260	µg/L	1	<1

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR	Result
LB390166.001	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01
	Perfluorotridecanoic acid (PFTTrDA)	µg/L	0.01	<0.01
	Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01
	Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01

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Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples (continued)

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR	Result
LB390166.001	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01
	Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01
	Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01
	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	µg/L	0.01	<0.01
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	<0.01
	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01
	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	µg/L	0.01	<0.01
	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	µg/L	0.05	<0.05
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	µg/L	0.05	<0.05
	2-(N-Ethylperfluorooctane sulfonamido)-ethanol (N-EtFOSE)	µg/L	0.05	<0.05
	2-(N-Methylperfluorooctane sulfonamido)-ethanol (N-MeFOSE)	µg/L	0.05	<0.05

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Sample Number	Parameter	Units	LOR	Result
LB390264.001	Total Suspended Solids Dried at 103-105°C	mg/L	5	<5

Total Dissolved Solids (TDS) in water

Method: ME-(AU)-[ENV]AN113

Sample Number	Parameter	Units	LOR	Result
LB390192.001	Total Dissolved Solids Dried at 175-185°C	mg/L	10	<10

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result
LB390178.001	Total Phenols	mg/L	0.05	<0.05

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Sample Number	Parameter	Units	LOR	Result
LB390176.001	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	<0.02

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB390313.001	Uranium	µg/L	0.5	<0.5
	Arsenic	µg/L	1	<1
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Copper	µg/L	1	<1
	Lead	µg/L	1	<1
	Nickel	µg/L	1	<1
	Zinc	µg/L	5	<5
	Silver	µg/L	1	<1
	Aluminium	µg/L	5	<5
	Antimony	µg/L	1	<1
	Barium	µg/L	1	<1
	Beryllium	µg/L	1	<1
	Boron	µg/L	5	<5
	Cobalt	µg/L	1	<1
	Iron	µg/L	5	<5
	Manganese	µg/L	1	<1
	Molybdenum	µg/L	1	<1
	Selenium	µg/L	1	<1

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Trace Metals (Dissolved) in Water by ICPMS (continued)

Method: ME-(AU)-[ENV]JAN318

Sample Number	Parameter	Units	LOR	Result
LB390313.001	Strontium	µg/L	1	<1
	Vanadium	µg/L	1	<1

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]JAN403

Sample Number	Parameter	Units	LOR	Result
LB390145.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	100	<100
	TRH C29-C36	µg/L	100	<100
	TRH F Bands	µg/L	50	<50
	TRH >C16-C34 (F3)	µg/L	100	<100
	TRH >C34-C40 (F4)	µg/L	100	<100

Turbidity

Method: ME-(AU)-[ENV]JAN119

Sample Number	Parameter	Units	LOR	Result
LB390098.001	Turbidity	NTU	0.5	<0.5

VOCs in Water

Method: ME-(AU)-[ENV]JAN433

Sample Number		Parameter	Units	LOR	Result	
LB390234.001	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	
	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	
		Iodomethane	µg/L	5	<5	
		1,1-dichloroethene	µg/L	0.5	<0.5	
		Dichloromethane (Methylene chloride)	µg/L	5	<5	
		Allyl chloride	µg/L	2	<2.0	
		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	

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
LB390234.001	Halogenated Aromatics	1,2,3-trichlorobenzene	µg/L	0.5	<0.5
	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5
	Hydrocarbons	Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
		Styrene (Vinyl benzene)	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	<0.5
		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	<2.0
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	92
		d8-toluene (Surrogate)	%	-	87
		Bromofluorobenzene (Surrogate)	%	-	96
	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
LB390234.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	92
		d8-toluene (Surrogate)	%	-	87
		Bromofluorobenzene (Surrogate)	%	-	96

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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

Alkalinity

Method: ME-(AU)-[ENV]AN135

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302801.031	LB390248.013	Bicarbonate Alkalinity as CaCO ₃	mg/L	5	11	12	59	2
		Carbonate Alkalinity as CaCO ₃	mg/L	5	<5	<5	200	0
		Total Alkalinity as CaCO ₃	mg/L	5	11	12	59	2
SE302954.005	LB390248.024	Bicarbonate Alkalinity as CaCO ₃	mg/L	5	97	92	20	5
		Carbonate Alkalinity as CaCO ₃	mg/L	5	<5	<5	200	0
		Total Alkalinity as CaCO ₃	mg/L	5	97	92	20	5

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302944.001	LB390110.014	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	0.09	0.09	27	1

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302944.001	LB390175.010	Chloride	mg/L	0.05	25	25	15	0
		Bromide	mg/L	0.05	0.15	0.15	49	1
		Fluoride	mg/L	0.1	<0.10	<0.10	120	0
		Sulfate, SO ₄	mg/L	1	37	36	18	1
		Nitrate Nitrogen, NO ₃ -N	mg/L	0.005	<0.005	<0.005	200	0

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302952.004	LB390107.012	Conductivity @ 25 C	µS/cm	2	4400	4400	15	0

Dissolved Oxygen by Membrane Electrode

Method: ME-(AU)-[ENV]AN176

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302944.001	LB390104.004	Dissolved Oxygen**	mg/L	0.5	2.6	2.5	35	3

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302944.001	LB390110.014	Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005	<0.005	200	0

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302952.002	LB390193.025	Total Organic Carbon as NPOC	mg/L	0.2	440	440	15	1

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Porth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302907.008	LB390412.024	Mercury, Hg	µg/L	0.0001	<0.0001	<0.0001	200	198

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302952.004	LB390319.024	Calcium, Ca	mg/L	0.2	38	40	16	5
		Magnesium, Mg	mg/L	0.1	29	31	15	5
		Sodium, Na	mg/L	0.5	850	890	15	5
		Potassium, K	mg/L	0.1	170	180	15	5
SE303023.001	LB390319.014	Calcium, Ca	mg/L	0.2	46	46	15	0
		Magnesium, Mg	mg/L	0.1	8.6	8.6	16	0

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Original	Duplicate	Parameter	Units	LOR
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Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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

Nitrite in Water (continued)

Method: ME-(AU)-[ENV]AN277

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302944.001	LB390110.014	Nitrite Nitrogen, NO ₂ as N	mg/L	0.005	<0.005	<0.005	200	0

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302944.003	LB390145.024	Naphthalene	µg/L	0.5	<0.5	<0.5	200	0
		2-methylnaphthalene	µg/L	0.5	<0.5	<0.5	200	0
		1-methylnaphthalene	µg/L	0.5	<0.5	<0.5	200	0
		Acenaphthylene	µg/L	0.5	<0.5	<0.5	200	0
		Acenaphthene	µg/L	0.5	<0.5	<0.5	200	0
		Fluorene	µg/L	0.5	<0.5	<0.5	200	0
		Phenanthrene	µg/L	0.5	<0.5	<0.5	200	0
		Anthracene	µg/L	0.5	<0.5	<0.5	200	0
		Fluoranthene	µg/L	0.5	<0.5	<0.5	200	0
		Pyrene	µg/L	0.5	<0.5	<0.5	200	0
		Benzo(a)anthracene	µg/L	0.5	<0.5	<0.5	200	0
		Chrysene	µg/L	0.5	<0.5	<0.5	200	0
		Benzo(b&j)fluoranthene	µg/L	0.5	<0.5	<0.5	200	0
		Benzo(k)fluoranthene	µg/L	0.5	<0.5	<0.5	200	0
		Benzo(b&j&k)fluoranthene	µg/L	0.5	<0.5	<0.5	200	0
		Benzo(a)pyrene	µg/L	0.5	<0.5	<0.5	200	0
		Indeno(1,2,3-cd)pyrene	µg/L	0.5	<0.5	<0.5	200	0
		Dibenzo(ah)anthracene	µg/L	0.5	<0.5	<0.5	200	0
		Benzo(ghi)perylene	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates						
		d5-nitrobenzene (Surrogate)	µg/L	-	0.42	0.44	30	5
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.41	0.43	30	5
		d14-p-terphenyl (Surrogate)	µg/L	-	0.47	0.45	30	4

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302921.003	LB390166.015	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	200	0
		Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.01	0.01	200	3
		Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	0.05	0.04	200	8
		Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	0.07	0.06	200	15
		Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2)	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFOS and PFHxS	µg/L	0.01	0.12	0.10	200	12
		Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	0.12	0.10	200	12
		Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	0.07	0.06	200	15
		(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	76	72	200	5
		(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	86	88	200	2
		(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	75	76	200	1
		(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	98	95	200	3
		(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	76	78	200	3
		(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	72	75	200	4
		(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	90	91	200	1
		(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	68	78	200	14
		(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	68	48	200	36
		(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	77	65	200	17
		(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	65	43	200	42

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples (continued)

Method: ME-(AU)-[ENV]JAN404

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302922.001	LB390166.004	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	200	0
		Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.02	0.02	200	3
		Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	0.01	0.01	200	4
		Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	0.01	0.01	200	1
		Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	0.08	0.09	200	6
		Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	0.08	0.08	200	8
		Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2)	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFOS and PFHxS	µg/L	0.01	0.16	0.16	200	1
		Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	0.16	0.16	200	1
		Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	0.08	0.08	200	8
		(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	62	69	200	10
		(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	85	86	200	2
		(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	73	77	200	5
		(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	79	85	200	8
		(13C4-PFOA) Isotopically Labelled Internal Recovery	%	-	58	66	200	13
		(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	77	76	200	2
		(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	94	91	200	3
		(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	77	84	200	8
		(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	50	59	200	17
		(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	65	77	200	17
		(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	46	53	200	15

pH in water

Method: ME-(AU)-[ENV]JAN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302952.004	LB390107.013	pH**	pH Units	0.1	6.2	6.1	17	0

Redox Potential (Eh) in water

Method: ME-(AU)-[ENV]JAN240

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302944.001	LB390106.003	Eh of Sample Relative to Standard H+ Electrode***	mV	-500	233	228	15	2

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]JAN114

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302926.001	LB390264.014	Total Suspended Solids Dried at 103-105°C	mg/L	5	<5	<5	200	0
SE302965.001	LB390264.025	Total Suspended Solids Dried at 103-105°C	mg/L	5	370	380	16	1

Total Dissolved Solids (TDS) in water

Method: ME-(AU)-[ENV]JAN113

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302954.007	LB390192.013	Total Dissolved Solids Dried at 175-185°C	mg/L	10	10000	9800	15	5
SE302958.001	LB390192.018	Total Dissolved Solids Dried at 175-185°C	mg/L	10	310	300	18	4

Total Phenolics in Water

Method: ME-(AU)-[ENV]JAN295

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302921.003	LB390178.014	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0
SE302954.009	LB390178.026	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0
SE302954.010	LB390178.030	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302954.004	LB390176.014	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	<0.02	<0.02	171	0
SE302954.010	LB390176.021	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	0.77	0.81	18	5

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302842.001	LB390313.024	Aluminium	µg/L	5	50	55	25	8
		Iron	µg/L	5	10	12	62	17
SE303025.028	LB390313.014	Arsenic	µg/L	1	<1	<1	200	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	<1	<1	200	0
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	200	0

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302893.001	LB390145.025	TRH C10-C14	µg/L	50	450	480	41	6
		TRH C15-C28	µg/L	100	1600	1700	36	3
		TRH C29-C36	µg/L	100	360	360	58	1
		Total TRH (C10-C36)	µg/L	50	2500	2500	32	3
		TRH F Bands						
		TRH >C10-C16	µg/L	50	720	750	37	5
		TRH >C10-C16 - Naphthalene (F2)	µg/L	50	720	750	37	5
		TRH >C16-C34 (F3)	µg/L	100	1700	1700	36	3
		TRH >C34-C40 (F4)	µg/L	100	170	170	89	5
		Total TRH (>C10-C40)	µg/L	50	2500	2600	32	3
SE302944.003	LB390145.024	TRH C10-C14	µg/L	50	<50	<50	200	0
		TRH C15-C28	µg/L	100	<100	<100	200	0
		TRH C29-C36	µg/L	100	<100	<100	200	0
		Total TRH (C10-C36)	µg/L	50	<50	<50	200	0
		TRH F Bands						
		TRH >C10-C16	µg/L	50	<50	<50	200	0
		TRH >C10-C16 - Naphthalene (F2)	µg/L	50	<50	<50	200	0
		TRH >C16-C34 (F3)	µg/L	100	<100	<100	200	0
		TRH >C34-C40 (F4)	µg/L	100	<100	<100	200	0
		Total TRH (>C10-C40)	µg/L	50	<50	<50	200	0

Turbidity

Method: ME-(AU)-[ENV]AN119

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302921.004	LB390098.010	Turbidity	NTU	0.5	12	12	19	4

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302944.005	LB390234.023	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
			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
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.6	8.3	30	4
			d8-toluene (Surrogate)	µg/L	-	8.6	8.9	30	3
			Bromofluorobenzene (Surrogate)	µg/L	-	10.1	10.2	30	1
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
SE302955.001	LB390234.022	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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 %
SE302955.001	LB390234.022	Halogenated Aliphatics	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
			Iodomethane	µg/L	5	<5	<5	200	0
			1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	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 Aromatics	Chlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			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 Aromatic	Benzene	µg/L	0.5	<0.5	<0.5	200
		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
		o-xylene		µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.3	8.4	30	1
			d8-toluene (Surrogate)	µg/L	-	8.7	8.7	30	0
			Bromofluorobenzene (Surrogate)	µg/L	-	10.1	10.0	30	2
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
			Total Halogenated Hydrocarbons	µg/L	10	<10	<10	200	0
			Total Chlorinated Hydrocarbons VIC EPA	µg/L	0.5	<0.5	<0.5	200	0
			Total Chlorinated Hydrocarbons	µg/L	10	<10	<10	200	0
		Trihalomethan es	Chloroform (THM)	µg/L	0.5	<0.5	<0.5	200	0
			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 %	
SE302944.005	LB390234.023	TRH C6-C9	µg/L	40	<40	<40	200	0	
		TRH C6-C10	µg/L	50	<50	<50	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.6	8.3	30	4
		d8-toluene (Surrogate)	µg/L	-	8.6	8.9	30	3	
		Bromofluorobenzene (Surrogate)	uo/L	-	10.1	10.2	30	1	

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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

Volatile Petroleum Hydrocarbons in Water (continued)

Method: ME-(AU)-[ENV]AN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE302955.001	LB390234.022	TRH C6-C9	µg/L	40	<40	<40	200	0
		TRH C6-C10	µg/L	50	<50	<50	200	0
		Surrogates						
		d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.3	8.4	30	1
		d8-toluene (Surrogate)	µg/L	-	8.7	8.7	30	0
		Bromofluorobenzene (Surrogate)	µg/L	-	10.1	10.0	30	2

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.

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390110.002	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	2.4	2.5	80 - 120	95

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390175.002	Chloride	mg/L	0.05	18	20	80 - 120	91
	Bromide	mg/L	0.05	1.8	2	80 - 120	92
	Fluoride	mg/L	0.1	1.8	2	80 - 120	92
	Sulfate, SO ₄	mg/L	1	19	20	80 - 120	94
	Nitrate Nitrogen, NO ₃ -N	mg/L	0.005	2.2	2	80 - 120	108

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390107.002	Conductivity @ 25 C	µS/cm	2	1000	1015	85 - 115	100

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390110.002	Filterable Reactive Phosphorus as P	mg/L	0.005	0.099	0.1	80 - 120	99

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390193.002	Total Organic Carbon as NPOC	mg/L	0.2	19	20	80 - 120	93

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB390146.004	01-PAHs	Acenaphthene	µg/L	0.1	48	40	60 - 140	119
		Acenaphthylene	µg/L	0.1	44	40	60 - 140	110
		Anthracene	µg/L	0.1	52	40	60 - 140	130
		Benzo(a)pyrene	µg/L	0.1	50	40	60 - 140	124
		Fluoranthene	µg/L	0.1	46	40	60 - 140	116
		Naphthalene	µg/L	0.1	45	40	60 - 140	111
		Phenanthrene	µg/L	0.1	48	40	60 - 140	119
	Pyrene	µg/L	0.1	45	40	60 - 140	114	
	02-OCs	Aldrin	µg/L	0.1	3.8	4	60 - 140	94
		Delta-BHC	µg/L	0.1	4.7	4	60 - 140	117
		p,p-DDT	µg/L	0.1	3.8	4	60 - 140	94
		Dieldrin	µg/L	0.1	4.7	4	60 - 140	117
		Endrin	µg/L	0.1	3.7	4	60 - 140	93
		Heptachlor	µg/L	0.1	3.9	4	60 - 140	96
	03-OPs	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	8.6	8	60 - 140	108
		Diazinon (Dimpylate)	µg/L	0.5	10	8	60 - 140	130
		Dichlorvos	µg/L	0.5	9.6	8	60 - 140	120
		Ethion	µg/L	0.2	8.0	8	60 - 140	100
	05-SVCH (CI Benzenes,	Hexachlorobenzene (HCB)	µg/L	0.1	4.1	4	60 - 140	102
		Hexachlorobutadiene	µg/L	0.5	4.0	4	60 - 140	101
		Hexachloroethane	µg/L	0.5	4.1	4	60 - 140	102
		Pentachlorobenzene	µg/L	0.5	4.1	4	60 - 140	103
		1,2,3,4-tetrachlorobenzene	µg/L	0.5	4.3	4	60 - 140	106
	06-Phthalates	Bis(2-ethylhexyl)phthalate	µg/L	10	<10	8	60 - 140	109
		Butyl benzyl phthalate	µg/L	1	7	8	60 - 140	92
		Di-n-butyl phthalate	µg/L	10	<10	8	60 - 140	103
		Diethyl phthalate	µg/L	5	9	8	60 - 140	113
		Dimethyl phthalate	µg/L	1	7	8	60 - 140	90
		Di-n-octyl phthalate	µg/L	1	8	8	60 - 140	101
	09-Nitrosamine	N-nitroso-di-n-propylamine (NDPA)	µg/L	1	34	32	60 - 140	106
	10-Nitroaromat	Pentachloronitrobenzene (quintozene)	µg/L	1	5	4	60 - 140	121

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.

Full 8270 SVOC in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390146.004	14-Speciated Routine	2,4-dichlorophenol	µg/L	0.5	44	40	60 - 140
		Phenol	µg/L	0.5	40	40	60 - 140
		2,4,6-trichlorophenol	µg/L	0.5	46	40	60 - 140
		Pentachlorophenol	µg/L	0.5	44	40	60 - 140
	Surrogates	d5-phenol (Surrogate)	µg/L	-	2.1	2	40 - 130
		d5-nitrobenzene (Surrogate)	µg/L	-	0.53	0.5	40 - 130
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.54	0.5	40 - 130
		2,4,6-Tribromophenol (Surrogate)	µg/L	-	5.1	5	40 - 130
		d14-p-terphenyl (Surrogate)	µg/L	-	0.53	0.5	40 - 130

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390319.002	Calcium, Ca	mg/L	0.2	52	50.5	80 - 120	102
	Magnesium, Mg	mg/L	0.1	45	50.5	80 - 120	90
	Sodium, Na	mg/L	0.5	49	50.5	80 - 120	96
	Potassium, K	mg/L	0.1	46	55	80 - 120	83
	Lithium, Li	mg/L	0.005	0.092	0.1	80 - 120	92
	Silicon, Si*	mg/L	0.05	0.23	0.25	80 - 120	94

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390110.002	Nitrite Nitrogen, NO2 as N	mg/L	0.005	0.095	0.1	80 - 120	95

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390145.002	Lindane (gamma BHC)	µg/L	0.2	10	10	60 - 140	102
	Heptachlor	µg/L	0.2	10	10	60 - 140	105
	Aldrin	µg/L	0.2	10	10	60 - 140	103
	Dieldrin	µg/L	0.2	11	10	60 - 140	114
	Endrin	µg/L	0.2	10	10	60 - 140	105
	p,p'-DDT	µg/L	0.2	10	10	60 - 140	103

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390145.002	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.5	10	10	60 - 140	103
	Diazinon (Dimpylate)	µg/L	0.5	12	10	60 - 140	120
	Dichlorvos	µg/L	0.5	9.3	10	60 - 140	93
	Ethion	µg/L	0.5	11	10	60 - 140	111
	2-fluorobiphenyl (Surrogate)	µg/L	-	0.44	0.5	40 - 130	88
	d14-p-terphenyl (Surrogate)	µg/L	-	0.48	0.5	40 - 130	97
	d5-nitrobenzene (Surrogate)	µg/L	-	0.41	0.5	40 - 130	82

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390145.002	Naphthalene	µg/L	0.5	22	20	60 - 140	110
	Acenaphthylene	µg/L	0.5	23	20	60 - 140	113
	Acenaphthene	µg/L	0.5	24	20	60 - 140	119
	Phenanthrene	µg/L	0.5	25	20	60 - 140	127
	Anthracene	µg/L	0.5	25	20	60 - 140	123
	Fluoranthene	µg/L	0.5	23	20	60 - 140	116
	Pyrene	µg/L	0.5	28	20	60 - 140	138
	Benzo(a)pyrene	µg/L	0.5	25	20	60 - 140	127
	d5-nitrobenzene (Surrogate)	µg/L	-	0.46	0.5	40 - 130	92
	2-fluorobiphenyl (Surrogate)	µg/L	-	0.47	0.5	40 - 130	94
	d14-p-terphenyl (Surrogate)	µg/L	-	0.56	0.5	40 - 130	111

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390145.002	Arochlor 1260	µg/L	1	11	10	60 - 140	114

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.

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390166.002	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.14	0.2	40 - 160	72
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.18	0.2	40 - 160	91
	Perfluorononanoic acid (PFNA)	µg/L	0.01	0.13	0.2	40 - 160	65
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	0.15	0.2	40 - 160	75
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	0.20	0.2	40 - 160	102
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	0.09	0.2	40 - 160	43
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	0.15	0.2	40 - 160	73
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	0.21	0.2	40 - 160	106

pH in water

Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390107.003	pH**	pH Units	0.1	7.4	7.415	98 - 102	100

Redox Potential (Eh) in water

Method: ME-(AU)-[ENV]AN240

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390106.001	Eh of Sample Relative to Standard H+ Electrode***	mV	-500	434	428	90 - 110	101

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390264.002	Total Suspended Solids Dried at 103-105°C	mg/L	5	100	100	80 - 120	100

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390178.002	Total Phenols	mg/L	0.05	0.19	0.2	80 - 120	97

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390176.002	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.1	1	80 - 120	105

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390313.002	Uranium	µg/L	0.5	20	20	80 - 120	101
	Arsenic	µg/L	1	17	20	80 - 120	87
	Cadmium	µg/L	0.1	18	20	80 - 120	92
	Chromium	µg/L	1	20	20	80 - 120	102
	Copper	µg/L	1	22	20	80 - 120	109
	Lead	µg/L	1	19	20	80 - 120	94
	Nickel	µg/L	1	21	20	80 - 120	107
	Zinc	µg/L	5	21	20	80 - 120	103
	Silver	µg/L	1	18	20	80 - 120	92
	Aluminium	µg/L	5	20	20	80 - 120	100
	Antimony	µg/L	1	20	20	80 - 120	100
	Barium	µg/L	1	19	20	80 - 120	94
	Beryllium	µg/L	1	19	20	80 - 120	96
	Boron	µg/L	5	19	20	80 - 120	96
	Cobalt	µg/L	1	21	20	80 - 120	105
	Iron	µg/L	5	21	20	80 - 120	104
	Manganese	µg/L	1	20	20	80 - 120	98
	Molybdenum	µg/L	1	19	20	80 - 120	95
	Selenium	µg/L	1	19	20	80 - 120	93
	Strontium	µg/L	1	18	20	80 - 120	89
	Vanadium	µg/L	1	20	20	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.

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390145.002	TRH C10-C14	µg/L	50	730	1000	60 - 140	73
	TRH F Bands	µg/L	50	730	1000	60 - 140	73

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390234.002	Halogenated	1,1-dichloroethene	µg/L	0.5	33	45.45	60 - 140	73
	Aliphatics	1,2-dichloroethane	µg/L	0.5	44	45.45	60 - 140	96
		Trichloroethene (Trichloroethylene,TCE)		µg/L	0.5	50	45.45	60 - 140
	Halogenated	Chlorobenzene	µg/L	0.5	44	45.45	60 - 140	96
	Monocyclic	Benzene	µg/L	0.5	34	25	60 - 140	137
	Aromatic	Toluene	µg/L	0.5	35	25	60 - 140	138
		Ethylbenzene	µg/L	0.5	35	25	60 - 140	138
		m/p-xylene	µg/L	1	68	50	60 - 140	135
		o-xylene	µg/L	0.5	35	25	60 - 140	140
	Trihalomethan	Chloroform (THM)	µg/L	0.5	32	45.45	60 - 140	70

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB390234.002	TRH C6-C9	µg/L	40	280	350	60 - 140	79
	TRH C6-C10	µg/L	50	290	400	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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE302843.002	LB390110.004	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	2.7	0.26	2.5	96

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE302921.001	LB390110.016	Filterable Reactive Phosphorus as P	mg/L	0.005	0.099	<0.005	0.1	100

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE302983.010	LB390412.004	Mercury, Hg	mg/L	0.0001	0.0018	<0.0001	0.008	89

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE302944.001	LB390319.004	Calcium, Ca	mg/L	0.2	69	16	50.5	105
		Magnesium, Mg	mg/L	0.1	53	3.6	50.5	98
		Sodium, Na	mg/L	0.5	96	46	50.5	99
		Potassium, K	mg/L	0.1	54	2.4	55	94
		Lithium, Li	mg/L	0.005	<0.005	<0.005	-	-
		Silicon, Si*	mg/L	0.05	5.2	4.9	0.25	106

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE302921.001	LB390110.016	Nitrite Nitrogen, NO ₂ as N	mg/L	0.005	0.094	<0.005	0.1	93

TKN Kjeldahl Digestion by Discrete Analyser

Method: ME-(AU)-[ENV]AN281/292

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE302958.001	LB390176.022	Total Kjeldahl Nitrogen	mg/L	0.05	2.7	0.17391	2.5	102

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE302940.001	LB390178.004	Total Phenols	mg/L	0.05	0.18	<0.05	0.2	87

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE302958.001	LB390176.022	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.1	0.01192	1	105

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE302944.004	LB390234.024	Monocyclic	Benzene	µg/L	0.5	<0.5	25	139
			Aromatic	Toluene	µg/L	0.5	<0.5	25
		Ethylbenzene		µg/L	0.5	<0.5	25	133
		m/p-xylene		µg/L	1	<1	50	129
		o-xylene		µg/L	0.5	<0.5	25	134
		Polycyclic		Naphthalene (VOC)*	µg/L	0.5	<0.5	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.7	-	99
			d8-toluene (Surrogate)	µg/L	-	8.7	-	104
			Bromofluorobenzene (Surrogate)	µg/L	-	10.2	-	95
		Totals	Total BTEX	µg/L	3	<3	-	-

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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%
SE302944.004	LB390234.024	TRH C6-C9	µg/L	40	<40	350	99
		TRH C6-C10	µg/L	50	<50	400	92
		Surrogates					
		d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.7	-	99
		d8-toluene (Surrogate)	µg/L	-	8.7	-	104
		Bromofluorobenzene (Surrogate)	µg/L	-	10.2	-	95



MATRIX SPIKE DUPLICATES

SE302944 R1

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier when outside suggested criteria. Refer to the footnotes section at the

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

QC Sample	Sample Number	Parameter	Units	LOR	Duplicate
SE302944.001	LB390193.026	Total Organic Carbon as NPOC	mg/L	0.2	53

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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Sheet 1 of 1				Sample Matrix		Analysis												Comments											
Site:		Project No:																											
40-56 Ourimbah Road, Mosman NSW		E27082																											
Laboratory:		SGS Australia Unit 16, 33 Maddox Street, ALEXANDRIA NSW 2015 P: 02 8594 0400 F: 02 8594 0499																											
Sample ID	Laboratory ID	Container Type	Sampling Date	Time	SOIL	WATER	0.45 µm field filtered	OTHER	HM ^A /TRH (including F1, F2, F3, F4)/ BTEX/PAHs	HM ^A /TRH (including F1, F2, F3, F4)/BTEX	BTEX	VOCs	PFAS	pH / Turbidity/ TDS/ EC/ Hardness	OP Pesticides	OC Pesticides	PCBs	Chloride & Sulfate	DPE AN2 Full Suite - Mandatory and Other Parameters	HOLD	Total Dissolved Solids (TDS) Total Suspended Solids	pH, Electrical Conductivity	Alkali Content	Ammonia	Dissolved Methane & Dissolved Carbon Dioxide	Oil and Grease	Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) THH (F1, F2, F3, F4) BTEX PAH Total Phenol	HM ^A Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn DPE Suite - Mandatory and Other Parameters (Appendix A suite - see page 2 and 3) Alkalinity (bicarbonate, carbonate, hydroxide & total) EC, pH, Redox Potential (EH), TDS (NTU), Total suspended solids (TSS), Total organic carbon (TOC), Sodium absorption ratio (SAR) Major anions SO4, Cl/CO3, Br, F Major cations Ca, Mg, Na, K Ionic Balance Metals (Al, Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Fe, Pb, Li, Mn, Hg, Mo, Ni, Se, Si, Ag, Sr, U, V, Zn) Ammonia, Nitrate, Total nitrogen, oxidized nitrogen, total phosphorus, reactive phosphorus E. Coli / E. Coliform / F. Streptococci THH / BTEX/PAH OCP, OPP, PCP SVOC, VOC Chlorinated aliphatics, Phenols, PFAS	
BH1M-1	1	S, P, VC	28/05/2026	AM		X	X												X										
BH3M-1	2	S, P, VC	28/05/2026	AM	X	X		X				X		X															
BH4M-1	3	S, P, VC	28/05/2026	AM	X	X			X			X		X															
QD1	4	S, P, VC	28/05/2026	AM	X	X			X																				
QRI	5	S, P, VC	28/05/2026	AM	X	X				X																			
GW-TB1	6	S, P, VC	28/05/2026	AM	X	X				X																			
GW-TS1	7	S, P, VC	28/05/2026	AM	X	X				X																			
Container Type: J = solvent washed, acid rinsed, Teflon sealed glass jar S = solvent washed, acid rinsed glass bottle P = natural HDPE plastic bottle VC = glass vial, Teflon Septum ZLB = Zip-Lock Bag BB = Bulk Bag					Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.																				Report with EI Waste Classification Table ☐				
Sampler's Name (EI): Print Charlie Tek					Received by (SGS): Print Vau																				Sampler's Comments: CC Ray Liu				
Signature 28/05/2026					Signature 28/05/2026																				Forward "QTI" to EnviroLab				
IMPORTANT: Please e-mail laboratory results to: lab@eiaustralia.com.au																													



LABORATORY
TURNAROUND

☒ Standard

☐ 24 Hours

☐ 48 Hours

☒ 72 Hours

☐ Other

Luong, Thi Song Van (Alexandria)

From: Charlie Tek - EIAustralia <charlie.tek@eiaustralia.com.au>
Sent: Thursday, 28 May 2026 3:28 PM
To: AU.SampleReceipt.Sydney, AU (Sydney); AU.Environmental.Sydney, AU (Sydney)
Cc: Ray Liu - EIAustralia
Subject: [EXTERNAL] RE: E27082 - Mosman COC

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hi SGS,

Please amend the TAT for this job to 3 days.

Thanks

Charlie Tek
BEng (Civil)
Environmental Engineer

T 02 9516 0722 M 0405 963 893

E charlie.tek@eiaustralia.com.au

Suite 6.01, 55 Miller Street
Pyrmont, NSW 2009

www.eiaustralia.com.au



Environmental | Geotechnical | Structural | Civil | Hazardous Materials

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From: Charlie Tek - EIAustralia
Sent: Thursday, 28 May 2026 3:01 PM
To: AU.SampleReceipt.Sydney, AU (Sydney); 'AU.Environmental.Sydney, AU (Sydney)'
Cc: Ray Liu - EIAustralia
Subject: E27082 - Mosman COC

Hi SGS,

Please see attached COC for groundwater samples that were picked up by courier.

Thanks



SAMPLE RECEIPT ADVICE

SE302944

CLIENT DETAILS

Contact Ray Liu
Client EIA AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email Ray.Liu@eiaustralia.com.au

Project **E27082, 40-56 Ourimbah Road Mosman**
Order Number **E27082**
Samples 7

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 28/5/2026
Report Due Tue 2/6/2026
SGS Reference **SE302944**

SUBMISSION DETAILS

This is to confirm that 7 samples were received on Thursday 28/5/2026. Results are expected to be ready by COB Tuesday 2/6/2026. Please quote SGS reference SE302944 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	7 Water	Type of documentation received	COC/Email
Date documentation received	28/05/2026	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	9.4°C
Sample container provider	SGS	Turnaround time requested	Three Days
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

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

QT1 forwarded to Envirolab.

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SAMPLE RECEIPT ADVICE

SE302944

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E27082, 40-56 Ourimbah Road Mosman**

SUMMARY OF ANALYSIS

No.	Sample ID	Conductivity and TDS by Calculation - Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	pH in water	Total Dissolved Solids (TDS) in water	TRH (Total Recoverable Hydrocarbons) in Water	Turbidity	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	BH1M-1	1	23	1	1	9	1	84	7
002	BH3M-1	1	23	1	1	9	1	84	7
003	BH4M-1	1	23	1	1	9	1	84	7
004	QD1	-	-	-	-	9	-	11	7
005	QR1	-	-	-	-	9	-	11	7
006	GW-TB1	-	-	-	-	-	-	11	-
007	GW-TS1	-	-	-	-	-	-	11	-

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

SE302944

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E27082, 40-56 Ourimbah Road Mosman**

SUMMARY OF ANALYSIS

No.	Sample ID	Alkalinity	Anions by Ion Chromatography in Water	Dissolved Oxygen by Membrane Electrode	Full 8270 SVOC in Water	Metals in Water (Dissolved) by ICPOES	OC Pesticides in Water	OP Pesticides in Water	PCBs in Water	Total Phenolics in Water
001	BH1M-1	10	5	3	167	9	29	15	9	1
002	BH3M-1	-	-	-	-	3	-	-	-	-
003	BH4M-1	-	-	-	-	3	-	-	-	-

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
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Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E27082, 40-56 Ourimbah Road Mosman**

SUMMARY OF ANALYSIS

No.	Sample ID	Ammonia Nitrogen by Discrete Analyser	Calculation of Anion-Cation Balance	Filterable Reactive Phosphorus (FRP)	Forms of Carbon	Mercury (dissolved) in Water	Nitrite in Water	TKN Kjeldahl Digestion by Discrete Analyser	Total and Volatile Suspended Solids (TSS /	Total Phosphorus by Kjeldahl Digestion DA in	Trace Metals (Dissolved) in Water by ICPMS
001	BH1M-1	1	4	1	1	1	2	2	1	1	21
002	BH3M-1	-	-	-	-	1	-	-	-	-	9
003	BH4M-1	-	-	-	-	1	-	-	-	-	9
004	QD1	-	-	-	-	1	-	-	-	-	9
005	QR1	-	-	-	-	1	-	-	-	-	9

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

SE302944

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E27082, 40-56 Ourimbah Road Mosman**

SUMMARY OF ANALYSIS

No.	Sample ID	E. coli and Thermotolerant coliforms in Water (CFU)	Enterococci in Water	Per- and Polyfluoroalkyl Substances (PFAS) in	Redox Potential (Eh) in water
001	BH1M-1	3	3	60	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 .