

17 OXFORD STREET PTY LTD



Detailed Site Investigation

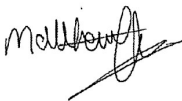
13-15 Oxford Street, 17 Oxford Street & 2 Verona Street,
Paddington NSW

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EXECUTIVE SUMMARY

17 Oxford Street Pty Ltd ('the client') engaged EI Australia Pty Ltd (EI) to complete a Detailed Site Investigation (DSI) of 13-15 Oxford Street, 17 Oxford Street & 2 Verona Street, Paddington NSW ('the site') to assess the nature and degree of on-site contamination associated with current and former uses of the property.

The site is located within the Local Government Area (LGA) of Sydney (**Figure 1, Appendix A**). The site is comprised of three land (lot and deposited plan (DP) cadastral) parcels, identified as:

- Strata Plan (SP) 22113 (13-15 Oxford Street)
- Lot 1 in DP75105 (2 Verona Street)
- Lot 1 in DP 137013 (17 Oxford Street)

The site has a total site area of 2,533m², as shown in **Figure 2, Appendix A**. At the time of most recent site inspection on 16 September 2025, the site consisted of residential apartments, consisting of 27 units (13-15 Oxford Street) and a commercial building, currently in use as a construction site office (2 Verona Street). The property at 17 Oxford Street was not inspected on 16 September 2025, however usage consists of commercial properties.

The proposed development will include;

- The demolition of existing structures on site, with retention of the two-storey masonry façade at 17 Oxford Street.
- Construction of a seven-storey, mixed use infill affordable housing development comprising:
 - Apartments located along the Oxford and Verona Street frontages including:
 - 30 market dwellings; and
 - 14 affordable housing dwellings, to be managed by a registered Community Housing Provider for a minimum of 15 years.
 - Four Terraces on the existing 2 Verona Street lot.
 - Cultural and creative uses (including cinema/bar) at basement and ground levels.
 - Ground level retail.
 - Two levels of basement car parking.
 - Associated landscaping including a central landscaped courtyard and rooftop communal open space.

The bottom basement is proposed to have a relative level (RL) of 36.95 metres Australian Height Datum (mAHD), with potential locally deeper excavations required for footings, lift overrun pits, crane pads and service trenches.

Environmental investigations were previously undertaken by EI at the adjacent site at 17 Oxford Street (EI, 2023 and EI 2024a), which then received a notice of determination of development application (DA) D/2022/1169 for a proposed redevelopment. A new development now encompasses 13-15 and 17 Oxford Street and 2 Verona Street under State Significant Development Application (SSDA) SSD-87245208, dated 15 July 2025.

Objectives

The purpose of this assessment is to enable the development to meet the requirements of State Environmental Planning Policy (Resilience and Hazards) (2021), obligations under the *Contaminated Land Management Act 1997* (CLM Act), and to satisfy requirements of the SSDA,

for the assessment and management of contaminated soil and/or groundwater present on site. As such, the main objectives of this assessment were to:

- Evaluate the potential for site contamination on the basis of historical land uses, anecdotal and documentary evidence of possible pollutant sources;
- Investigate the degree of any potential contamination by intrusive sampling of soil and groundwater and laboratory analysis, for relevant contaminants;
- Where site contamination is confirmed, make recommendations for the appropriate management of any contaminated soils and/or groundwater.
- Provide a conclusion regarding suitability of the site for the proposed development.

Findings

The key findings of this DSI were as follows:

- The development area consisted of one residential and one commercial properties which occupied three adjoining lots;
- A review of aerial imagery and historical records identified that;
 - The property at 13-15 Oxford Street was used as a fuel service station (Shell) between 1949 and 1972 and for commercial use until 1981 or 1982. The site was redeveloped between 1982 and 1984 into a residential apartment complex overlying a two-level basement carpark, which is the current use. The basement carpark occupies the majority of the footprint of the property.
 - The current building on 17 Oxford Street was likely constructed in the 1940s and used for light industrial and warehousing purposes before being refurbished for current retail/commercial use as a local entertainment premises.
 - The current building on 2 Verona Street was likely constructed by 1934 and used for light industrial and warehousing purposes before being refurbished for commercial use in 1982.
 - Land surrounding the proposed development area has remained mixed residential and commercial since at least 1941. Redevelopment of sites immediately adjacent north and west has occurred.
- The site was 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 was not included on the *List of NSW Contaminated Sites Notified to the EPA*.
- One property located at 59 Oxford Street approximately 71m south-east of the development area, identified as a 7-eleven service station was listed on the contaminated land public record and the *List of NSW Contaminated Sites Notified to the EPA*. The service station is cross-gradient of the site and migration of contaminants is unlikely.
- One property, located at 52 Hopewell Street, approximately 213m north-east, identified as a former workshop was listed on the *List of NSW Contaminated Sites Notified to the EPA*. The former workshop is downgradient of the site and migration of contaminants is unlikely.
- Site inspection found no visual evidence of gross contamination. No suspicious odours were detected during the site inspection, or during any of the field (sampling) works.
- There was no evidence that underground storage tanks (USTs) were present on the site. No above-ground storage tanks (ASTs) were identified.
- The site lithology was generalised as a ground level concrete slab overlying sand fill to a maximum depth of 46.72 mAHd followed by marine sand and sandy clay (to a maximum

depth of 40 mAHD) then sandstone bedrock, first encountered at 44.52 mAHD. The basement slab at 13-15 Oxford Street was underlain by gravel fill then sand.

- The site lies within the class description of '*No Known Occurrence*' of acid sulfate soils (ASS). Acid sulfate soils are not known or expected to occur within the proposed development area and further assessment or management is not required.
- An assessment of the collected soil samples against adopted health-based criteria and ecological criteria (NEPC, 2013) was conducted for the site (13-15 Oxford Street, 17 Oxford Street and 2 Verona Street). Concentrations of contaminants of concern were reported below the adopted guidelines with the exception of the following:
 - Friable asbestos was identified in fill at locations BH103_1.8-1.9 and BHB105_1.3-1.4 at 17 Oxford Street.
- Groundwater was gauged at three monitoring wells and was found to occur at elevations of 42.68 mAHD (BH201M), 45.42 mAHD (BH101M) and 42.56 mAHD (BH208M). The potentiometric slope was anticipated to be north-easterly.
- Groundwater was observed to be turbid but free from odour or staining. The water was acidic, saline and mostly oxidising.
- An assessment of the collected groundwater samples against adopted health-based and ecological criteria (NEPC 2013 and ANZG 2018) was conducted for the site (13-15 Oxford Street, 17 Oxford Street and 2 Verona Street). Concentrations of contaminants of concern were reported below the adopted guidelines with the exception of the following:
 - Copper and zinc; and
 - Petroleum hydrocarbons (as TRH-F1, TRH-F2), detected above laboratory LOR.
- There was no evidence of metal contamination from in-situ soil. The concentrations of metals observed in groundwater are consistent with expected background concentrations of an urban environment. The human health and ecological risk from metals in groundwater was low and acceptable.
- Concentrations of petroleum hydrocarbons (TRH-F1 and TRH-F2) were reported marginally above the laboratory LOR in groundwater. The human health and ecological risk from petroleum hydrocarbons detected in groundwater was considered to be low and acceptable.
- There was no evidence of remnant petroleum hydrocarbon impact in soil or groundwater from former service station operations at 13-15 Oxford Street, which ceased in 1972.
- The conceptual site model developed for the site (**Section 4**) was considered to appropriately identify contamination sources, migration mechanisms and exposure pathways, as well as potential onsite and offsite receptors. However some data gaps remained due to access constraints within existing buildings:
 - The western portion of 13-15 Oxford Street. Under the proposed development a landscape/ deep soils zone is to be provided within this area;
 - The eastern portion of 17 Oxford Street, where no intrusive investigation has been completed; and
 - The northern portion of 2 Verona Street. The soils in this area are outside the basement footprint of the proposed development and will be retained.

Conclusions

Based on the findings of this DSI and with due consideration of EI's Statement of Limitations (**Section 11**), it is concluded that the potential for contamination within 13-15 Oxford Street and

2 Verona Street) is low. Friable asbestos was identified in fill at 17 Oxford Street. Some data gaps remain due to site access restrictions.

The site can be made suitable for the proposed development provided that implementation of remediation and validation works for 17 Oxford Street, are carried out, as outlined in the RAP (EI, 2024a) and that recommendations presented in **Section 10** are followed. Recommendations can be incorporated into the planning and consent process for the proposed development

Recommendations

EI makes the following recommendations in relation to the development area (13-15 Oxford Street, 17 Oxford Street and 2 Verona Street):

- Implementation of remediation and validation works for 17 Oxford Street, as outlined in the RAP (EI, 2024a).
- Preparation of a site validation report describing additional investigations, remediation and waste classification. The Site validation report shall provide a conclusion regarding suitability of the site for the proposed development.
- Additional intrusive investigation to close data gaps remaining at the subject site following demolition, specifically within previously inaccessible soils at:
 - The western portion of 13-15 Oxford Street;
 - The eastern portion of 17 Oxford Street; and
 - The northern portion of 2 Verona Street;
- An asbestos clearance inspection and certificate should be completed by a suitably qualified professional (SafeWork NSW Licensed Asbestos Assessor) following demolition of existing site structures.
- A hazardous materials assessment of existing buildings and preparation of a hazardous materials report due to the relative age of existing site structures. This will guide demolition of existing buildings and prevent uncontrolled distribution of hazardous materials during demolition;
- Waste classification of waste and surplus material (including potential virgin excavated natural material - VENM) to be removed from the site, in accordance with the NSW EPA (2014) Waste Classification Guidelines, Protection of the Environment Operations Act 1997, and Work Health and Safety Regulation 2017;
- Assessment of any soil/fill material imported onto the site. Imported soil must be classified as virgin excavated natural material (VENM) or have a classification certificate indicating that it is suitable for the proposed land use; and

EI notes that these recommendations can be managed through the development application process.

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1. INTRODUCTION

1.1 Background and Purpose

EI Australia Pty Ltd (EI) was engaged by 17 Oxford Street Pty Ltd ('the client') to complete a Detailed Site Investigation (DSI) for 13-15 Oxford Street, 17 Oxford Street & 2 Verona Street, Paddington NSW ('the site').

The site is located within the Local Government Area (LGA) of Sydney (**Figure 1, Appendix A**). The site is comprised of three land cadastral parcels, identified as:

- Strata Plan (SP) 22113 (13-15 Oxford Street)
- Lot 1 in Deposited Plan (DP) 75105 (2 Verona Street)
- Lot 1 in DP 137013 (17 Oxford Street)

The site has an approximate total site area of 2,533m², as shown in **Figure 2, Appendix A**. At the time of most recent site inspection on 16 September 2025, the site consisted of residential apartments, consisting of 27 units (13-15 Oxford Street), and a commercial building at 2 Verona Street currently in use as a construction site office. The property at 17 Oxford Street was not inspected on 16 September 2025, however usage consists of commercial properties.

Environmental investigations were previously undertaken by EI at the adjacent site at 17 Oxford Street (EI, 2023 and EI 2024a), which then received a notice of determination of development application (DA) D/2022/1169 for a proposed redevelopment. The new development, under a State Significant Development Application (SSDA) SSD-87245208, dated 15 July 2025, now encompasses 13-15 Oxford Street, 17 Oxford Street and 2 Verona Street. Specifically, this report has been prepared to respond to the SEARs requirements issued below.

SEAR Requirement Reference	Response Reference in this Report
12. Ground and Water Conditions • Assess potential impacts on soil resources and related infrastructure and riparian lands on and near the site and including soil erosion. • Where required provide a Groundwater Impact Assessment in accordance with relevant Groundwater Guidelines. If the proposed development is on land identified as having high salinity or acid sulfate soil potential in an EPI provide a Salinity Management Plan or Acid Sulfate Soil Management Plan that includes appropriate management measures and strategies.	From searches of online databases, it was concluded that there is no evidence that actual (AASS) or passive (PASS) acid sulfate soil is present within the boundaries of the subject site. See Table 2.3 Regional Setting Information.
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.	The site can be made suitable for the proposed development provided that the recommendations presented in Section 11 are followed. See Section 11: Recommendations.

This DSI was conducted to support the SSDA for redevelopment of the site and enable the developer to meet the requirements of State Environmental Planning Policy (Resilience and Hazards) (2021) under the Contaminated Land Management Act 1997 (CLM Act), for the assessment and management of contaminated soil and/or groundwater.

1.2 Proposed Development

The site consists of three adjoining land parcels, identified as 13-15 Oxford Street, 17 Oxford Street and 2 Verona Street (previously investigated) (EI, 2023 and EI 2024a). Based on the provided architectural plans (TonkinZulaikhaGreer, 2025), site redevelopment will involve;

- The demolition of existing structures on site, with retention of the two-storey masonry façade at 17 Oxford Street.
- Construction of a seven-storey, mixed use infill affordable housing development comprising:
 - Apartments located along the Oxford and Verona Street frontages including:
 - 30 market dwellings; and
 - 14 affordable housing dwellings, to be managed by a registered Community Housing Provider for a minimum of 15 years.
 - Four Terraces on the existing 2 Verona Street lot.
 - Cultural and creative uses (including cinema/bar) at basement and ground levels.
 - Ground level retail.
 - Two levels of basement car parking.
 - Associated landscaping including a central landscaped courtyard and rooftop communal open space.

The bottom basement is proposed to have a relative level (RL) of 36.95 metres Australian Height Datum (mAHD), with potential locally deeper excavations required for footings, lift overrun pits, crane pads and service trenches.

1.3 Regulatory Framework

The following regulatory framework and guidelines were considered during this DSI:

- ANZG (2018) Australian and New Zealand Guidelines for Fresh and Marine Water Quality;
- *Contaminated Land Management Act 1997*;
- *Environmental Planning and Assessment Act 1979*
- NSW EPA (2022) *Contaminated Land Sampling Design Guidelines*;
- NSW EPA (2017) *Guidelines for the NSW Site Auditor Scheme- 3rd Edition*;
- NSW EPA (2020) *Guidelines for Consultants Reporting on Contaminated Land*; and
- NEPC (2013) Schedule B(1) Guideline on Investigation Levels for Soil and Groundwater;
- NEPC (2013) Schedule B(2) Guideline on Site Characterisation;
- Sydney Local Environmental Management Plan 2012;
- State Environmental Planning Policy (Resilience and Hazards) 2021

1.4 Project Objectives

The primary objectives of this investigation were to:

- Evaluate the potential for site contamination on the basis of historical land uses, anecdotal and documentary evidence of possible pollutant sources;
- Investigate the degree of any potential contamination by intrusive sampling of soil and groundwater and laboratory analysis, for relevant contaminants;
- Where site contamination is confirmed, make recommendations for the appropriate management of any contaminated soils and/or groundwater.
- Provide a conclusion regarding suitability of the site for the proposed development.

1.5 Scope of Works

To achieve the above objectives, the following scopes of work were completed:

Desktop Study

- Preparation of a Work, Health, Safety and Environment Plan (WHSEP);
- Search of relevant topographical, geological and soil landscape maps for the project area;
- Review of previous reports (where available);
- Review of existing underground services on site (from a Before You Dig Australia 'BYDA' search).
- Review of historical aerial photographs from the NSW Spatial Portal to assess previous site use and land development in the neighbouring area;
- Review of Lotsearch report;
- Preparation and review of a SafeWork data base Search
- A request to Council for information (requires owner approval) relating to development and environmental complaints history (if available).
- Land titles search also conducted through NSW Land Registry Services;
- Search through the New South Wales, Environment Protection Authority (NSW EPA) contaminated land database to assess whether the site is notified or regulated under the Contaminated Land Management Act (1997);
- Search through the NSW Government PFAS (Per- and poly-fluoroalkyl substances) investigation program database for information on surrounding sites.
- Underground service scan completed via hand-held electromagnetic equipment;

Fieldwork and Laboratory Analysis

- Construction of test boreholes at 9 locations via drill rig and/or hand auger targeting properties at 13-15 Oxford Street & 2 Verona Street (as 17 Oxford street was previously investigated);
- Construction of 2 groundwater monitoring bores drilled to a depth of approximately 17m (or refusal) in both up gradient and downgradient of the proposed redevelopment area. Groundwater monitoring bores will be constructed to standard environmental protocols to investigate the potential for groundwater contamination, and migration of contaminants off-site;

- Multiple level soil sampling within fill and natural soils and one round of groundwater sampling from the newly constructed and one existing groundwater monitoring wells;
- Laboratory analysis of selected samples for relevant analytical parameters as determined from the site history survey and field observations during the investigation program; and

Data Analysis and Reporting

Preparation of this DSI report which documents the desk study findings, the conceptual site model, data quality objectives, investigation methodologies and findings, according to NSW EPA (2020) guidelines.

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 location is shown in **Figure 1, Appendix A**.

Table 2-1 Site Identification, Location and Zoning

Attribute	Description
Street Address	13-15 Oxford Street, 17 Oxford Street & 2 Verona Street, Paddington NSW
Location Description	Bound by Oxford Street to the east, commercial and residential properties to the north and south and residential properties to the west.
Geographical Coordinates	13-15 Oxford Street: coordinates of the north-eastern corner; Easting: 335356.736576; Northing: 6249493.243566; and 2 Verona Street: coordinates of the south-western corner: Easting: 335353.605903; Northing: 6249413.916189. Coordinate system GDA2020-MGA56. (Source: https://portal.spatial.nsw.gov.au/explorer/index.html).
Site Area	Approximately 2,533 m ² , (Source: https://portal.spatial.nsw.gov.au/explorer/index.html).
Cadastral Identification	Strata Plan (SP) 22113 (13-15 Oxford Street) Lot 1 in Deposited Plan (DP) 75105 (2 Verona Street) Lot 1 in DP 137013 (17 Oxford Street)
State Survey Marks	Five State Survey (SS) marks are situated close to the site (within a 100m radius of the north-eastern corner of 2 Verona Street): Permanent Mark (PM) 45774: on Oxford Street (approximately 50m north-east); PM30692: on Oxford Street (approximately 65m north-east); PM30689D: on Oxford Street (approximately 60m east); SS50275: on Napier Street (approximately 90m south). PM30691N: on Oxford Street (approximately 82m south). (Source: https://portal.spatial.nsw.gov.au/explorer/index.html)
LGA	Sydney
Current Zoning	E1- Local Centre (13-15 and 17 Oxford Street) R1- General Residential (2 Verona Street) (Sydney Local Environmental Plan 2012- Land Zoning Map – Sheet LAN_022)

2.2 Surrounding Land Use

The site is situated within a mixed use residential and commercial zone. The land uses and receptors immediately surrounding the site are described in **Table 2-2**.

Table 2-2 Local Land Use

Direction	Land Use Description	Sensitive Receptor (distance from site)
North	Commercial Properties; Corner South Dowling Street and Oxford Street; Residential properties; and St Vincent's Hospital Sydney The University of Notre Dame Australia	Visitors and owners of commercial properties occupants (immediately adjacent) Pedestrians on Oxford Street and South Dowling Street (approximately 70m north); and St Vincent's Hospital Sydney users (approximately 140m north-east). Students and employees of The University of Notre Dame Australia (approximately 180m north)
South	Verona Street; Residential properties; and UNSW Art & Design	Verona Street users (immediately adjacent), Residential occupants (approximately 25m south); Students and employees of UNSW Art & Design (approximately 180m south)
East	Oxford Street; Commercial properties; and Residential properties	Workers and customers (immediately adjacent); and Residential occupants (approximately 25m east). Pedestrians on Oxford Street (immediately adjacent);
West	Marshall Street; and Residential properties	Pedestrians on Marshall Street (immediately adjacent); Residential occupants (immediately adjacent)

Sensitive land uses and environmental receptors within the vicinity of the site include local residents, St Vincent's Hospital Sydney, UNSW Art & Design and The University of Notre Dame Australia

2.3 Regional Setting

Local topography, (hydro)geology and soil landscape information is summarised in **Table 2-3**.

Table 2-3 Regional Setting Information

Attribute	Description
Topography	With reference to supplied survey plans (Boxall, 2025), the site slopes to the north-east, with recorded elevations ranging from 47.27 mAHD at the north-eastern corner of the site on Oxford Street to 50.59 mAHD at the south-wester corner of the site, on Verona Street)
Site Drainage	Likely to be consistent with the general slope of the site (to the north-east). Any runoff would be expected to flow into either the municipal stormwater system or flow overland, consistently with the site topography, into the drainage pathways.
Regional Geology	According to the Department of Mineral Resources <i>Sydney 1:100,000 Geological Series Sheet 9130</i> (DMR, 1983), the site is situated within a region of transition from Ashfield Shale (<i>Rwa</i>) to Hawkesbury Sandstone (<i>Rh</i>). Ashfield Shale consists of black to dark-grey shale and laminite, and Hawkesbury Sandstone consists 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 (DCCEEW, 2024) indicates that the site overlies a region of transition from Blacktown (<i>bt</i>) residual landscape to Gymea (<i>gy</i>) erosional landscape. Blacktown (<i>bt</i>) residual landscape is characterised by gently undulating rises on Wianamatta Group shales, and Gymea (<i>gy</i>) erosional landscape is characterised by undulating to rolling rises and low hills on Hawkesbury Sandstone.
Acid Sulfate Soil (ASS) Risk	The <i>Sydney Local Environmental Plan 2012 Acid Sulfate Soils Map</i> shows the site to be within a <i>Class 5</i> area with respect to ASS. In such cases, council consent is required prior to commencing any works within 500m of adjacent Class 1, 2, 3 or 4 land that is below 5m AHD and where the water table is likely to be lowered below

Attribute	Description
	1m AHD on adjacent Class 1, 2, 3 or 4 land. With reference to the <i>Botany Bay 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, ASSs are not known or expected to occur and "land management activities are not likely to be affected by ASS materials." Therefore, the potential for ASS presence on-site was considered to be low and further assessment and management is not required.
Nearest Water Features	Rushcutters Bay, approximately 1.3km north-east of the site
Anticipated Groundwater Flow Direction	Anticipated to be in a north-easterly direction towards Rushcutters Bay, approximately 1.3km north-east of the site.

2.4 Groundwater Bore Records and Local Groundwater Use

An online search for groundwater bores registered with WaterNSW was conducted by EI on 18 September 2025 (Ref. <https://realtimedata.waternsw.com.au/water.stm>). The search revealed nine registered bores within a 500m radius of the site, summarised in **Table 2-4**.

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

Bore No.	Date Drilled	Drilled Depth (m)	SWL (mBGL) / Salinity (µS/cm) / Yield (L/s)	Bore Purpose
GW112180	01/03/1999	30.0	NA / NA / NA	Monitoring Bore
GW112179	01/03/1999	30.0	NA / NA / NA	Monitoring Bore
GW109239	19/08/2008	7.45	4.570 / Fresh/ NA	Monitoring Bore
GW109240	20/08/2008	7.50	5.670 / Fresh/ NA	Monitoring Bore
GW109238	19/08/2008	7.50	4.590 / Fresh/ NA	Monitoring Bore
GW112181	01/03/1999	30.0	NA / NA / NA	Monitoring Bore
GW112178	01/03/1999	30.0	NA / NA / NA	Monitoring Bore
GW112182	01/03/1999	30.0	NA / NA / NA	Monitoring Bore
GW200690	20/12/2007	6.0	NA / NA / NA	Monitoring Bore

All of the registered bores are authorised for monitoring bore use only. The drilled bore depths ranged between 6.0m and 30.0 mBGL. Water table (as indicated by the standing water level (SWL)) ranged between 4.57 and 5.67 mBGL. Salinity was classified as Fresh. No yield information was available.

2.5 Site Walkover Inspection

Observations were recorded during a walkover inspection on 8 September 2025 (summarised below), which was performed by EI Australia. Photographs taken at the time are presented in **Appendix D**.

- The site consisted of three lots, comprising of three separate buildings:
 - The overall site was observed to be generally downslope towards the northeast from approximately 50 mAHD in the southwest at Verona Street, to approximately 47 mAHD

in the northeast at Oxford Street. There was a steep gradient easterly observed along Verona Street.

- 13-15 Oxford Street: A residential apartment complex overlying a two-level basement carpark. The basement was observed to occupy the majority of the site footprint. The lowest basement is at a floor level of approximately 4m below the surrounding ground level (i.e. RL 43.6 mAHD). The elevation of the surrounding ground level on Oxford Street was approximately RL 47 mAHD
- 17 Oxford Street: A three storey commercial property with a raised carpark area on the ground floor
- 2 Verona Street: A two storey commercial property, currently in use as a construction site office).
- No landscaped areas were observed within the entirety of the site;
- Concrete was observed across the entirety of the site and was in mostly good condition, with some rising damp and efflorescence was observed within the basement level of 13-15 Oxford Street.
- A 7-eleven service station was observed to be within close vicinity to the site, located alongside the next parallel street, south of Verona Street, on Rosebud Lane.
- Surrounding land use comprised of a mixture of commercial and residential, with no other potential off-site sources of contamination observed,
- No suspicious odours or visual evidence of (gross) contamination were observed at any parts of the site; and
- There was no evidence, by way of fill/dip points or vents, that underground storage tanks (USTs) were present on the site. No above-ground storage tanks (ASTs) were identified

3. SITE HISTORY AND SEARCHES

A review of online databases and of site history was previously initiated and reported for 2 Verona Street (EI, 2024b) and 17 Oxford Street (EI, 2023). Relevant historical information and findings for these properties and 13-15 Oxford Street is summarised in this **Section 3**.

3.1 Previous investigations

Previous investigations were completed for the adjacent sites at 17 Oxford Street and 2 Verona Street, entitled;

EI (2023) *Detailed Site Investigation for 17 Oxford Street, Paddington, NSW* (Ref. E25559.E02_Rev0, dated August 2023); and

EI (2024b) *Preliminary Site Investigation for 2 Verona Street, Paddington NSW* (Ref. E25559.E01.002_Rev1, dated 18 October 2024).

EI (2025) *Remediation Action Plan for 13-15 Oxford Street, 17 Oxford Street & 2 Verona Street, Paddington NSW* (Ref. E25559.E06_Rev1, dated 18 November 2025)

No other relevant previous investigations were provided to EI for review. A summary of the key findings of these reports relevant to the DSI were provided in **Table 3-1**. The findings from intrusive investigations at 17 Oxford Street have been incorporated into this DSI.

Table 3-1 Summary of previous investigations

Project Task	Description
EI (2023) Detailed Site Investigation (DSI): 17 Oxford Street	
Objective	The main objectives of the DSI are as follows: ▪ Provide a qualitative assessment of the potential for site contamination on the basis of historical land uses and anecdotal and documentary evidence of possible pollutant sources; ▪ Establish the degree of any potential site contamination, by intrusive sampling and laboratory analysis for relevant contaminants; and ▪ Make recommendations for the appropriate management of any contaminated soils and/or groundwater (if contamination were identified).
Scope of Works	Desktop Study ▪ Review of previous environmental investigation EI Australia (2022) <i>17 Oxford Street, Paddington NSW</i> (EI Australia Reference.: Ref. E25559.E01 _Rev0, dated 9 December 2022); and ▪ Review of client supplied development plans for information relating to proposed land use and design. Field Work ▪ Site inspection; ▪ Review of existing underground services on-site, utilising <i>Before-You-Dig</i> plans and electro-magnetic equipment operated by a licensed services locator; ▪ Drilling of eight boreholes (BH101 to BH108) positioned in accessible areas of the site; ▪ Conversion of one of the boreholes into a groundwater monitoring well

Project Task	Description
	(BH101M); - Multiple level soil sampling within fill and natural soils in each borehole; - Completion of a groundwater monitoring event (GME), including measurement of standing water levels (SWLs) and representative sampling at the installed well; and - Laboratory analysis of selected soil and groundwater samples for relevant analytical parameters, as determined by the desktop study and field observations. Reporting Data interpretation and reporting in accordance with NSW EPA guidelines
Findings	Soil assessment - Based on the logs for the boreholes, the site lithology generalised under the detailed site investigation was refined as follows: - Concrete pavement (0-0.27m BGL); overlying - Fill: Sand, fine grained, brown to yellow, with builders plastic and concrete fragments (0.0 to 3.6m BGL); overlying - Residual SAND, fine grained, yellow (0.5 to 4.0m BGL); overlying - Weathered Sandstone (6.5 m BGL +). - A total of eight boreholes (BH101M, and BH102 to BH108) were conducted at accessible areas of the site. Samples were collected from both fill and natural soil: - Friable ACM was found in recovered soil samples from two locations (BH103 and BH105). Note: At both locations, the laboratory report described the asbestos as chrysotile fibrous mass, and the fragment size was less than 7mm, According to NEPC (2013) Schedule B1, Section 4.4, the reported asbestos was friable. - No other potential contaminants including petroleum hydrocarbons and BTEX compounds in soil exceed the adopted health-based criteria. Groundwater assessment - One groundwater monitoring well (BH101M) was installed at the north-west section of the site; Concentrations of the potential contaminants were below the adopted GILs (where available), with the exception of: - Zinc was reported at a concentration of 23 µg/L (BH101M) which exceeded the adopted marine GIL of 8 µg/L; and - No petroleum hydrocarbons or BTEX compounds were reported in groundwater at BH101M.
Conclusion and Recommendations	EI concluded that there is potential for contamination to be present on site. Remediation is required to render the site suitable for the proposed development. EI made the following recommendations: - Conduct a Hazardous Materials Survey (HMS) of the current site prior to site demolition; - Preparation and implementation of a Remediation Action Plan (RAP) which should include, but not necessarily be limited to, the following: - In situ soil sampling in the northern half of the site which was inaccessible at the time of investigation;

Project Task	Description
	- Remediation options for management and disposal of asbestos (friable) found in fill soils at two locations (BH103 and BH104) (See Appendix A Figure 4); - Areas impacted by asbestos should be segregated from the remainder of the site, and marked by prominent features that withstand weather (e.g. star picket and danger tape); - Procedures to deal with any unexpected finds identified during remediation and construction;
EI (2024b) Preliminary Site Investigation (PSI): 2 Verona Street	
Objective	The main objectives of the PSI were as follows: - To evaluate the potential for site contamination on the basis of field observations, historical land uses, anecdotal and documentary evidences of possible contamination sources; - To provide a conclusion regarding the suitability of the site for the proposed use; and - To make recommendations for the appropriate management of any impacted soils, should the potential for contamination be confirmed.
Scope of Works	Desktop Study - A review of relevant databases to establish a site history; - Preparation of a conceptual site model (CSM); and - Data interpretation and reporting. Field Work - A site walkover inspection;
Findings	- The site is located in a local centre area. Local commercial activities include retail shops, restaurants and mixed businesses. A dry-cleaning business (Eurostar Dry Cleaners) is located approximately 150m north-west (cross-gradient) from the site and a service station (7-Eleven) is located approximately 95m south-east (cross-gradient) from the site. - The site consists of a two-storey commercial building. - The building structure is generally in fair to good condition. - The ground floor and Level 1 were used for commercial purposes (office space); and - Loading dock and car parking area, also on the ground floor, are located on good condition hardstand pavement. - The local surroundings consisted of residential, commercial and light industrial properties since the 1940s. - No obvious (i.e. visible or olfactory) signs of gross contamination were observed during the inspection. - There was no evidence that underground petroleum storage systems (UPSS), underground storage tanks (USTs) or above-ground storage tanks (ASTs) were present on site. - There are no NSW Fire and Rescue Station (or Training College) in the vicinity (<100m) of the site.

Project Task	Description
	- The site is free of statutory notices and licensing agreements issued under the <i>Contaminated Land Management Act 1997</i>. The site was not included on the <i>List of NSW Contaminated Sites Notified to the EPA</i>. The site and surrounding lands within close proximity ($\leq 250\text{m}$ radius) are free of licensing agreements under the <i>Protection of the Environment Operations Act 1997</i>. - The potential for acid sulfate soils (ASS) to be present on the site was deemed low. - The conceptual site model (CSM) established that there is a low to moderate contamination risk on the site, associated predominantly with potential for hazardous building materials, application of pesticides, imported fill materials of unknown origin during original building construction, and previous on-site light
Conclusion and Recommendations	EI concluded that there is a low to moderate potential for contamination to exist on the site and that the site can be made suitable for the proposed development subject to the implementation of the following recommendations; - Remediation requirements specified in the RAP, (EI, <i>Remediation Action Plan for 17 Oxford St Pty Ltd, Paddington, NSW</i> (Ref. E25559.E06_Rev0, dated February 2024) be implemented to the subject site (2 Verona Street). - Before commencement of any demolition works, a Hazardous Materials Survey (HMS) should be completed by a suitably qualified consultant, to confirm the presence and location of any hazardous materials within the existing building fabrics. - All soil materials that are designated for off-site disposal, including any <i>virgin excavated natural material</i> (VENM), must be pre-classified in accordance with NSW EPA (2014). - Any material being imported to the site should be validated as suitable for the intended (mixed) use, in accordance with NSW EPA (2014). In particular, imported filling / landscaping material must be certified as meeting the VENM classification, prior to importation.
EI (2025) Remediation Action Plan (RAP): 13-15 Oxford Street, 17 Oxford Street & 2 Verona Street,	
Objective	The aims of the RAP were to - Provide a sequential process to render the site (13-15 Oxford Street, 17 Oxford Street & 2 Verona Street) suitable for the proposed development. - Ensuring all works occur in a safe and acceptable manner, in compliance with relevant guidelines; and - Minimal adverse effects on human health and the environment.
Proposed Development	The proposed development includes demolition of site structures with retention of the façade at 17 Oxford street and construction of a seven-storey mixed commercial, residential and recreational building with a two-level basement. Landscaped areas are proposed, including a central landscaped courtyard.
Remediation Strategy	The preferred remedial option for the site involves: Excavation and off-site disposal of ACM impacted soil to licensed waste facilities. Wastes shall be transported to appropriate, EPA-licensed facilities, after formal classification. It is envisaged that the remediation works will be implemented in stages, as follows: Stage 1 – Preliminaries and site establishment; Stage 2 – Demolition and surface (clearance) inspection for remnant demolition waste and potential contaminants;

Project Task	Description
	▪ Stage 3 – Data Gap Closure Investigation; ▪ Stage 4 – Remedial Excavation of identified ACM impacted soils; ▪ Stage 5 – Waste classification and waste management; ▪ Stage 6 – Final site validation and reporting
Conclusion	EI concluded that the site at 13-15 Oxford Street, 17 Oxford Street & 2 Verona Street, can be made suitable for the proposed use (7 storey mixed use building) through the implementation of the RAP.

3.2 Land Titles Information

An historical land titles search was conducted through InfoTrack Pty Ltd (InfoTrack) for 13-15 Oxford Street. Copies of relevant documents resulting from this search are presented in **Appendix I**. A summary of the previous and current registered proprietors is presented in **Table 3-2**.

Table 3-2 Summary of Owner History

Year	Registered Proprietor(s) and Occupations (where documented)
<i>As regards to the part numbered 1 on the attached Cadastral Records Enquiry Report, northern portion of 13-15 Oxford Street (Appendix I)</i>	
1925 to 1952	Olympia Limited now Olympia Pty. Limited
1952 to 1953	Francis Ryan Smith (Company Director)
1953 to 1982	The Shell Company of Australia Limited
1982 to 1984	Pauillio Pty. Limited
<i>As regards to the part numbered 2 on the attached Cadastral Records Enquiry Report southern portion of 13-15 Oxford Street (Appendix I)</i>	
1921 to 1937	Sidney Edwin Jenner (Merchant)
1937 to 1948	The Commissioner for Main Roads
1948 to 1954	John O'Halloran (Contractor)
1954 to 1955	Mary O'Halloran (Spinster)
1955 to 1957	Josephine Vaughan (Married Woman)
1957 to 1957	(Transmission Application not investigated)
1957 to 1982	John Patrick Dwyer (Demolition Contractor)
1982 to 1984	John Ekins Wailes (Solicitor)
<i>As regards to the whole of SP22113</i>	
28/11/1984	Registration of Strata Plan No. 22113
	# The Proprietors – Strata Plan No. 22113
1984 to Date	Now
	# The Owners – Strata Plan No.

Note1: # Denotes current registered proprietor(s)

In summary, 13-15 Oxford Street (identified as SP22113) comprised of two sections (part 1 and part 2 on attached Cadastral Records Enquiry Report) since at least 1921. The formal registration of the current strata plan was initialised on 28 November 1984, after which site use became residential. Registered proprietors of the site of note include The Shell Company of Australia Limited, between 1953 and 1982, indicating former use as a fuel service station in that period.

3.3 Land Insight Report

An environmental risk and planning report by Land Insight Pty Ltd (Reference: LI-4214 DDR, dated 22 July 2024) was reviewed as part of this DSI, which included searches of various environmental resources, data bases and plans archived by statutory authorities. A summary of the relevant (historical) information follows. The full report is presented in **Appendix G**.

- The site was not part of the Department of Defence or EPA per- and poly- fluoroalkyl substance (PFAS) investigation / management programs.
- 13-15 Oxford Street was historically used as a motor service station and garage.
- A 7-Eleven Service Station, located at 59 Oxford Street, Paddington NSW approximately 125m south-east, UST and AST usage areas likely to be present on site.
- With respect to potential for ASS, the site was classified as having “extremely low probability of occurrence”.
- No dryland salinity assessment data were recorded for the site. No mining subsidence district was present within the surveyed area.
- No state significant precincts present within a 1km radius of the site.
- No natural (e.g. bush fire) hazard applied to the site.
- No ecological (native vegetation, wetland, groundwater, inflow, bio-conservation) constraint applied to the site.

Historical Business Directory

Business activities with potential for creating contamination formerly operated within close proximity of the site (approximately 100 m), in relation to 2 Verona Street. These included:

- Motor Service Stations and garages, located within 13-15 Oxford Street
- Sheet Metal Workers (1965), located within 13-15 Oxford Street
- Petrol pump and motor service station and garages (1940-1980), located at 25 Oxford Street, 35m south-east
- Dry Cleaners and dyers (1965), located at 9 Oxford Street, 38m north
- Motor service stations (1930), located at 27 Oxford Street, 58m south-east
- Dry cleaners (2005), located at 55 Oxford Street, Darlinghurst, 76m north
- Dry Cleaners, pressers/dyers (1970), located at 24-44 Oxford Street, 79m north-east
- Dryers and cleaners (1930), located at 36a Oxford Street, 82m north-east

Apart from motor service stations and garages location within 13-15 Oxford Street, it is unlikely that any other historical business activity will result in contaminant migration to the site, due to the anticipated groundwater flow in a north-easterly direction.

3.4 Historical Aerial Review

Information relating to past potential land uses, as obtained from the available historical aerial photography is summarised in **Table 3-1**. The historical aerial photographs reviewed as part of

this DSI were obtained on the publically available NSW Historical Imagery (<https://portal.spatial.nsw.gov.au>), with the photographs from 2000s onwards reviewed on Nearmap (<https://apps.nearmap.com>).

Table 3-3 Summary of Aerial Photograph History

Aerial Photograph	Site description based on historical aerial photographs	Land Use
1943	The site appeared to be a commercial property Surrounding areas were consisted of commercial and residential properties. Land to the south appears to be an active construction site.	Commercial
1955	The site was unchanged from 1943 imagery. Land to the south appears to have finalised construction and exists as a commercial property.	Commercial
1970	The site was unchanged from 1943 imagery. Surrounding areas were largely unchanged.	Commercial
1982	The site was largely unchanged since the 1943 image. Surrounding areas were largely unchanged.	Commercial
1991	The site appears to be a residential property, with apartments existing on site at 13-15 Oxford Street. The surrounding areas were largely unchanged.	Residential
2005	The site was largely unchanged since the 1991 image. Surrounding areas were largely unchanged.	Residential
September 2015	The site was largely unchanged since the 1991 image. Surrounding areas were largely unchanged.	Residential
October 2022	The site was largely unchanged since the 1991 image. Surrounding areas were largely unchanged. However, the site immediately adjacent north exists as an active construction site.	Residential

In summary, 13-15 Oxford Street existed as a commercial property until before 1991, where it transitioned to residential use, with apartments existing on site. Note that land title information (**Section 3.2**) indicates residential apartment use from 1984, with construction between 1982 and 1984. Council records (**Section 3.6**) indicate that apartment construction commenced in 1981.

Surrounding areas have remained mixed residential and commercial since at least 1941, with the sites immediately adjacent south and north being redeveloped in at least 1955 and 2022 respectively. The most recent historical site usage and of the surrounding area remain mostly consistent to the current date with the exception of a completed development immediately adjacent north.

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 13-15 Oxford Street.

3.5.1 Record of Notices Under Section 58 of CLM Act 1997

An on-line search of the contaminated land public record was conducted on 18 September 2025. The contaminated land public record is a searchable database of:

- Orders made under Part 3 of the CLM Act 1997;

- Notices available to the public under Section 58 of the CLM Act;
- Approved voluntary management proposals under the CLM Act 1997 that have not been fully carried out and where the approval of the NSW EPA has not been revoked;
- Site audit statements provided to the NSW 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 NSW EPA under Section 35 or 36 of the *Environmentally Hazardous Chemicals Act 1985* (EHC Act 1985).

The search confirmed that the site was not subject to any regulatory notices relevant to the above legislations. One neighbouring property was identified as listed in **Table 3-4**. However, this property is hydraulically located cross-gradient of the site, and the migration of any contaminants to the site is unlikely.

Table 3-4 NSW EPA Record of Notices

Site Identification	Site Address	Distance from Site	Notice Type	Hydraulic location to site
7-Eleven Service Station	59 Oxford Street, Paddington NSW	approximately 125m south-east	Approved Voluntary Management Proposal (2020) Declaration of Significantly Contaminated Land (2013)	Cross-gradient

3.5.2 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 5 August 2024. This list is maintained by the NSW EPA and includes properties on which contamination has been identified, but not deemed to be impacted significantly enough to warrant regulation.

The search confirmed that the site has not been notified as contaminated to the NSW EPA. Two neighbouring properties were identified on the list, as detailed in **Table 3-5**:

- 59 Oxford Street, Paddington NSW (7-eleven service station) is located hydraulically cross-gradient of the site, any potential migration of contaminants are deemed unlikely;
- 52 Hopewell Street, Paddington NSW (former workshop) is located hydraulically cross-gradient of the site, any potential migration of contaminants are deemed unlikely.

Table 3-5 Nearby Properties in the List of NSW Contaminated Sites Notified to EPA

Property	Address	Distance and Direction	Contamination Activity	Management Status
7-Eleven Service Station	59 Oxford Street, Paddington NSW	approximately 125m south-east (cross-gradient)	Service Station	Contamination currently regulated under CLM Act
Former Workshop	52 Hopewell Street, Paddington NSW	approximately 220m east (down-gradient)	Other Industry	Regulation under CLM Act not required

3.5.3 POEO Public Register

A search of the *Protection of the Environment Operations Act 1997* public register was conducted on 15 August 2024. This public register contains records related 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 current licensing agreements / notices / programs relevant to this legislation.

3.6 Council Records

A search of site history records held by the City of Sydney Council in relation to the site was initiated on 26 August 2025 for 13-15 Oxford Street. Council information indicated that;

- With reference to Plans of Sydney (Rygate & West), 1888: Sheet 33, a brewery existed on site or immediately adjacent to the site between 1 January 1888 and 31 December 1888.
- With reference to the City of Sydney Historical Atlas of Sydney (<https://archives.cityofsydney.nsw.gov.au/pages/historicalatlas>), a service station existed on site between 1949 and 1972.
- The City of Sydney Council holds files regarding the erection of 30 x 1 bedroom units on site, between 9 April 1981 and 27 September 1984. It is likely that this development involved the demolition of the existing service station and related infrastructure.

No other evidence of any previous manufacturing activities, storage of chemicals, changes of site use or any reported incidents related to possible site contamination were made available at time of writing this report.

3.7 SafeWork NSW Dangerous Goods Register Records

A search of SafeWork NSW was conducted on 17 September 2025. As at time of writing this report, no response has been received. However, this report will be updated should any relevant information be received.

4. CONCEPTUAL SITE MODEL

In accordance with NEPC (2013) *Schedule B2 – Guideline on Site Characterisation* and to aid in the assessment of data collected for the site, EI developed a conceptual site model (CSM) that assessed plausible linkages between potential contamination sources, migration pathways, and receptors. This CSM provides a framework for the review of the reliability and useability of the data collected and identifies gaps in the existing site characterisation.

4.1 Summary of Site History

The overall site has been used from commercial/industrial purposes since before the 1940's.

The property at 13-15 Oxford Street existed was used for commercial purposes including use as a fuel service station, until 1981 or 1982, after which it was redeveloped between 1982 and 1984 for the current use as residential apartments including a 2-level basement carpark which occupies the majority of the site footprint. Excavation at that time for construction of the 2-level basement car park likely removed all UPSS infrastructure and impacted soil (if present) previously associated with the service station.

With reference to the previous preliminary site investigation for 2 Verona Street (EI, 2024b), the building at 2 Verona Street was constructed between 1930 and 1943 (based on title records, construction likely by 1934) and used for light industrial and warehousing purposes. The property was refurbished for commercial use in 1982 and appeared unchanged since.

The building at 17 Oxford Street was constructed in the 1940s and used for light industrial and warehousing purposes before being refurbished for current retail/commercial use as a local entertainment premises. The property appeared unchanged since.

Residential, commercial and light industrial properties have been constructed in the surrounding lands since the 1940s. Sites immediately adjacent south and north were redeveloped in 1955 and 2022 respectively. The most recent historical site usage and of the surrounding area remains mostly consistent to the current date with the exception of a completed development immediately adjacent north.

4.2 Summary of Sub-Surface

The site is situated within a region of transition from Ashfield Shale (*Rwa*) to Hawkesbury Sandstone (*Rh*). Ashfield Shale consists of black to dark-grey shale and laminite, and Hawkesbury Sandstone consists of medium to coarse-grained quartz sandstone, very minor shale and laminate lenses. Based on fieldwork conducted, the

The site lithology was generalised as concrete overlying sand fill to a maximum depth of 46.72 mAHD followed by marine sand to sandy clay (to a maximum depth of 40 mAHD) then sandstone bedrock, first encountered at 44.52 mAHD (BH101M). Gravel fill was observed within 13-15 Oxford Street between depths of 43.8 and 42.9 mAHD (existing 2-level basement car park was excavated to approximately 4 metres below surrounding ground level).

The depth to groundwater ranged from 42.56 to 45.42 mAHD based on GME data measured on 16 September 2025.

The property at 17 Oxford Street was previously investigated and findings reported in a DSI (EI, 2023) and a RAP (EI, 2024a). Asbestos was reported in fill at boreholes BH103_1.8-1.9 (greater than LOR of 0.01 %w/w) and BH105_1.3-1.4 (less than LOR of 0.01 %w/w). At both sampling locations the asbestos was described as chrysotile fibrous mass with fragment size less than

7mm (considered friable asbestos). Concentrations of all other analytes within tested boreholes (BH101M-BH108) were within the adopted health and ecological criteria.

The concentrations of potential contaminants (priority metals, petroleum hydrocarbons, BTEX compounds and PAHs) in groundwater sample GW-BH101M were low and within the adopted criteria, with the exception of zinc. However, it was considered that the reported zinc concentration was consistent with background conditions in urbanised areas of Sydney, including the suburb of Paddington.

4.3 Potential Contamination Sources

The potential sources of contamination to exist on the site are:

- Former and current on-site light industrial and commercial activities, including from historical petrol station which existed at 13-15 Oxford Street;
- Imported fill materials of unknown origin and quality (used to grade the site at 2 Verona Street during building construction in the 1930s);
- Weathering of exposed building fabrics containing hazardous substances (asbestos containing materials (ACM), lead-based paints and metallic surfaces);
- Application of pesticides around building (footing) perimeters; and
- On-site migration from neighbouring historical commercial/industrial activities.

4.4 PFAS Assessment

NSW EPA (2017) requires that PFAS are considered when investigating land contamination. An assessment of the probability for PFAS occurrence is provided in **Table 4-1**. This was based on considerations outlined in the *PFAS National Environmental Management Plan* (HEPA, 2020) and the EnRisk (2016) decision tree.

Table 4-1 PFAS Decision Tree

Preliminary Screening	Probability of Occurrence ¹
Is the past or present site activity listed in the HEPA (2020) ² as being an activity with risk of fire. If so list activity: Fire not known to have occurred on the site.	L
Is the past or present off-site activity upgradient or adjacent to the site listed in the HEPA (2020) ² as being an activity with risk of fire. If so list activity	Yes. Fuel storage as part of historical service station at 13-15 Oxford Street.
Did fire training involving the use of suppressants occur on-site?	L
Did fire training occur upgradient of or adjacent to the site? ³	L
Have "fuel" fires ever occurred on-site? e.g. ignition of fuel (solvent, petrol, diesel, kero) tanks? Not known	L
Have PFAS been used in manufacturing or stored on-site? ⁴	L
Could PFAS have been imported to the site in fill materials from a site with activity listed in HEPA (2018)?	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	Yes. PFAS identified as

Preliminary Screening	Probability of Occurrence ¹
need to be optimised to include preliminary sampling and testing for PFAS in soil (including ASLP analysis) and waters?	a COPC in groundwater
Note 1 Probability: L – low (all necessary documentation has been reviewed and there is no recorded instance or compelling rationale); M – moderate (all necessary documentation has been reviewed and there is potential evidence of a recorded instance with compelling rationale); H – high (all necessary documentation has been reviewed and there is evidence of a recorded instance with compelling rationale). Note 2 Activities listed in Appendix B of HEPA (2020). Note 3 Runoff from upgradient 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 Refer to https://www.epa.nsw.gov.au/your-environment/contaminated-land/pfas-investigation-program. <i>Emerging Chemicals</i>	

4.5 Emerging Chemicals

The NSW EPA uses Chemical Control Orders (CCOs), a primary legislative tool under the *Environmentally Hazardous Chemicals Act 1985*, to control 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 found to be low, with the possible exceptions of polychlorinated biphenyls (PCB) and pesticides, due to the importation of filling (from unknown sources) and/or former pesticide use.

Table 4-2 Emerging or Controlled Chemicals

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 PCBs used or PCB wastes (CCO, 1997) stored on-site? ³	No (unlikely)
Were scheduled chemicals or wastes (CCO, 2004) used or stored? ⁴	Yes Possible minor application of OCPs to footings of buildings for termite control. Impact likely to be localised to near-surface soil.
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?	No
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 & ship yards and marinas. Note 3 From older transformer oils & electrical capacitors Note 4 Twenty-four priority organochlorine pesticides and industrial by-products Note 5 Other chemicals considered as emerging e.g. 1,4 dioxane (associated with some VOCs).	

4.6 Contaminants of Potential Concern (COPCs)

Based on the findings of the site history and searches in **Section 3**, the contaminants of concern at the site were considered to be:

- **In Soil** – heavy metals (HM), total recoverable hydrocarbons (TRH), monocyclic aromatic hydrocarbon compounds, *benzene, toluene, ethylbenzene and total xylenes* (BTEX), polycyclic aromatic hydrocarbons (PAH), organochlorine and organophosphorus pesticides (OCP/OPP), polychlorinated biphenyls (PCB), and asbestos.
- **In Groundwater** - dissolved heavy metals, TRH and VOC (including BTEX), PFAS and phenols.

4.7 Likelihood for Site Contamination

EI considered that there is moderate potential for contamination to be present on site, with friable asbestos identified by laboratory analysis in shallow fill at locations BH103 and BH105 (EI, 2023). Previous land use (historical petrol station) and fill soils of unknown origin and quality were considered to be the primary potential sources of contamination. Weathering fall out of asbestos containing materials (ACM) from buildings may also occur.

A qualitative assessment of potential exposure, human and environmental receptors and the risks posed by (or likelihood for) complete exposure pathways relating to these sources is summarised in **Table 4-3**.

Table 4-3 Assessment of Potential Contamination Risks

Potential Source	COPC	Media	Sensitive Receptor	Transport Mechanism	Exposure Pathway	Complete source-pathway receptor linkage
Former site usage as historical petrol station (at 13-15 Oxford Street) and other commercial /light industrial activities	HM, TRH, VOC (BTEX), PAH, PFAS, phenols, PCBs and asbestos	Soil Groundwater	Future site residents; Aquatic environment off-site; Future intrusive workers.	Leaching Site earthworks Erosion & Surface runoff Advection and diffusion in groundwater	Inhalation Dermal contact Ingestion Vapour intrusion	Potentially complete. No evidence of the presence of such COPCs from tested soil samples. However, the western portion of 13-15 Oxford Street was not investigated in this DSI. Concentration of petroleum hydrocarbons (TRH-F1 and TRH F2) marginally reported above LOR in groundwater.
Imported fill soils of unknown origin and quality	HM, TRH, VOC (BTEX), PAH, OCP, OPP, PCB and asbestos	Surface soil	Site workers during construction; Future site residents.	Site earthworks Environmental erosion Surface runoff	Inhalation of asbestos fibres (if present) Dermal contact Ingestion Vapour intrusion	Potentially complete. No evidence of the presence of such COPCs from tested samples. However, the entirety of the site was not accessible at time of writing this DSI.
Historical application of pesticides	OPP, OCP	Surface soil	Site workers during construction; Future site residents.	Direct spraying Leaching Site earthworks Environmental erosion	Dermal contact Ingestion	
Weathering of exposed building fabrics containing hazardous materials	Asbestos, HM	Surface soil	Site workers during construction; Future site residents.	Site earthworks	Inhalation of asbestos fibres (if present) Dermal contact Ingestion	Potentially complete. No evidence based on tested samples. However recommended controls (Sections 6) should eliminate this contamination source

Potential Source	COPC	Media	Sensitive Receptor	Transport Mechanism	Exposure Pathway	Complete source-pathway receptor linkage
Migration of contaminants from off-site (upgradient) sources;	HM, TRH and VOC (BTEX), PFAS, Phenols	Groundwater	Site workers during construction; Future site residents; Aquatic environment; Future intrusive workers.	Leaching Advection and diffusion in groundwater	Inhalation of vapour Dermal contact Ingestion Biota uptake	during future works. Not complete. No upgradient sources of contamination identified based on anticipated groundwater flow direction (north east).

5. METHODOLOGY

5.1 Sampling, Analytical and Quality Plan

The sampling, analytical and quality plan (SAQP) ensures that the data collected during environmental works are representative and provide a robust basis for assessment decisions. The SAQP for this investigation included the following:

- Data quality objectives (DQO), including a summary of the objectives of this investigation;
- Investigation methodology, including the media to be sampled, details of analytes and parameters to be monitored and a description of intended sampling points;
- Sampling procedures (including sample handling, preservation and storage);
- Field screening methods;
- Laboratory analysis methods; and
- Analytical quality assurance / quality control (QA/QC).

5.2 Data Quality Objectives

In accordance with the NEPC (2013) *Schedule B2 Guideline on Site Characterisation*, the USEPA (2006) *Data Quality Assessment* and NSW EPA (2017) *Guidelines for the NSW Site Auditor Scheme*, DQO were developed by the EI investigation team, following the NEPM- / EPA- endorsed, seven step process (**Table 5-1**). In doing so, the appropriate levels of data quantity and quality needed for the specific requirements of the project were established.

Table 5-1 Summary of Project Data Quality Objectives

DQO Step	Details
1. State the Problem Summarise the contamination problem that will require new environmental data and identify the resources available to resolve the problem; develop a conceptual site model.	The site was designated for mixed used residential, commercial and recreational development. Detailed investigation was necessary to quantify any potential contamination. The proposed development will involve demolition of existing buildings with retention of the two-storey masonry façade at 17 Oxford Street and the construction of a seven storey mixed use building overlying a three storey basement, with the proposed usage for ground floor being mixed retail, cultural and creative. A landscape area is proposed along the eastern portion of the site. The majority of the proposed development is equivalent to a generic NEPC (2013) land use scenario of residential with minimal opportunities for soil access. Some ground floor apartments will be constructed as slab on ground and include private gardens, and this is equivalent to a generic NEPC (2023) land use of residential with garden/accessible soil. The desktop study (CSM) indicated that the potential for site contamination was moderate, with application of fill soils of unknown origin, and past site usage of 13-15 Oxford Street as a petrol station. This investigation was required to characterise the condition of the site soil, thereby enabling the developer to meet its obligations under State Environmental Planning Policy Resilience and Hazards (2021).
2. Identify the Goal of the Study (Identify the decisions) Identify the decisions that need to be made on the contamination problem and the new environmental data required to make them.	Based on the objectives outlined in Section 1.4, the decisions that needed to be made were: - Have the nature, extent and source of soil and/or groundwater impacts on-site been defined? - What impact do the site specific, geologic and hydrogeological conditions have on the fate and transport of any contaminants that may be present? - Does the level of impact, coupled with the fate and transport of identified contaminants, represent an unacceptable risk to identified human and/or environmental receptors on- or off- site? - Does the collected data provide sufficient information to allow the suitability of the site to be determined, or selection and design of an appropriate remedial strategy, if necessary? - If the data does not provide sufficient information, what data gaps require closure to enable the suitability of the site to be determined, or selection and design of an appropriate remedial strategy?
3. Identify Information Inputs (Identify inputs to decision) Identify the information needed to support any decision and specify which inputs require new environmental measurements.	Inputs to the decision making process included: - Proposed development plans and land use; - National and NSW EPA guidelines endorsed under the <i>NSW Contaminated Land Management Act 1997</i>; - Observations obtained from an intrusive investigation in locations and to depths deemed appropriate for assessment purposes (or prior auger refusal); - Sampling to verify the presence of on-site contamination and to evaluate the potential risks to sensitive receptors; and - Laboratory analysis of selected samples for the contaminants of concern; At the end of the assessment, a decision had to be made regarding whether the environmental conditions were suitable for the proposed redevelopment, or if additional investigations, / remediation or management were required to make the site suitable.

DQO Step	Details
4. Define the Boundaries of the Study Specify the spatial and temporal aspects of the environmental media that the data must represent to support decision.	<i>Lateral</i> – The cadastral boundaries of the site. <i>Vertical</i> – From the existing ground surface and underlying fill down to the deepest investigated depth within natural soil horizons and bedrock. <i>Temporal</i> – The findings of this DSI will hold true for as long as the site use remained passive in nature; that is, for as long as the site was used for the proposed use and there were no activities taking place either on-site or on immediately adjacent (upgrading) properties that could compromise environmental conditions.
5. Develop the Analytic Approach (Develop a decision rule) To define the parameter of interest, specify the action level, and integrate previous DQO outputs into a single statement that describes a logical basis for choosing from alternative actions.	Parameters of interest included the laboratory results for primary and quality control soil analytical testing. Laboratory test results were accepted if: - All contracted laboratories were accredited by NATA for the analyses undertaken; - All laboratory analytical data were within pre-determined assessment criteria, in accordance with laboratory QA/QC policies and DQOs; - QA/QC results demonstrated acceptable reliability and representativeness of the data set; and - Laboratory practical quantitation limits (PQL) were below the adopted assessment criteria for the tested COPC. The principal decision rule for the investigation was: - If the concentrations of contaminants in the soil exceeded the adopted assessment criteria, then determine the need to further investigate the extent of impact(s) on-site. Decision criteria for QA/QC measures are defined by the Data Quality Indicators (DQI) in Table 5-2.
6. Specify Performance or Acceptance Criteria (Specify limits on decision errors) Specify the decision-maker's acceptable limits on decision errors, which are used to establish performance goals for limiting uncertainties in the data.	Specific limits for this project were in accordance with National and NSW EPA guidance, appropriate indicators of data quality and standard procedures for field sampling and handling. This included the following points to quantify tolerable limits: The null hypothesis for the investigation was that the mean / maximum concentrations for the COPC exceeded relevant land use criteria across the site. The acceptance of the site was based on: - The 95% UCL of the average concentration of the data set satisfied the given site criterion (for a given contaminants of concern); - The standard deviation of the results was less than 50% of the relevant criterion; - No single results exceeded the assessment criteria by 250% or more; and - Concentrations for contaminant of concern that were below assessment criteria made or approved by the NSW EPA were treated as acceptable. Hence, if contaminant concentrations in soil exceeded the adopted criteria, further investigation was considered prudent. If no contamination was detected in soil, no further action was required.

DQO Step

Details

7. Develop the Detailed Plan for Obtaining Data (Optimise the design for obtaining data)

Identify the most resource-effective sampling and analysis design for general data that are expected to satisfy the DQOs.

To achieve the most resource-effective sampling and analysis design and generate data that satisfied the DQO:

Written instructions were issued to guide field personnel in the required fieldwork activities.

Soil sampling was conducted at nine (9) boreholes (BH201M to BH209, including BH208M), placed in accessible parts of the site. Eight boreholes were distributed across accessible areas of 13-15 Oxford Street (BH202 to BH209), and one borehole located within 2 Verona Street (BH201M) These complemented soil sampling previously undertaken from eight boreholes BH101M, BH102 to BH108) drilled at 17 Oxford Street;

Sampling was performed in accordance with NSW EPA guidelines and EI standard operating procedures (SOPs);

Discrete fill and natural samples were analysed for the contaminants of concern;

Groundwater sampling at three monitoring wells (BH101M, BH201M and BH208M) and analysed for contaminants of concern; and

Review of the results, to determine if further sampling was warranted (that being where contaminant concentrations in soil or water were found to exceed the adopted criteria endorsed by the NSW EPA, relevant to the proposed land use(s).

5.3 Data Quality Indicators

To ensure that the investigation data were of an acceptable quality, they were assessed against the data quality indicators (DQI) outlined in **Table 5-2**. Assessment of data quality is presented in **Section 6** and **Appendix K**.

Table 5-2 Data Quality Indicators

QA/QC Component	Data Quality Indicator(s)
Precision A quantitative measure of the variability (or reproducibility) of data	Data precision was assessed by reviewing the performance of blind field duplicate sample sets, through calculation of relative percentage differences (RPD). Data precision was deemed acceptable if RPDs were found to be less than 30%. RPDs that exceeded this range were considered acceptable where: Results were less than 10 times the limits of reporting (LOR); Results were less than 20 times the LOR and the RPD was less than 50%; or Heterogeneous materials or volatile compounds were encountered.
Accuracy A quantitative measure of the closeness of reported data to the “true” value	Data accuracy was assessed through the analysis of: Split field duplicate sample sets; Field and method blanks, analysed for the analytes targeted in the primary samples; Matrix spike sample sets; and Laboratory control samples.
Representativeness The confidence (expressed qualitatively) that data are representative of each medium present onsite	To ensure the data produced by the laboratory were representative of conditions encountered in the field, the following measures were taken: Blank samples run in parallel with field samples, to confirm there were no unacceptable instances of laboratory artefacts; Review of RPDs for field and laboratory duplicates to provide an indication that the samples were generally homogeneous, with no unacceptable instances of significant sample matrix heterogeneities; and The appropriateness of collection methodologies, handling, storage and preservation techniques was assessed to ensure/confirm there was minimal opportunity for sample interference or degradation (i.e. volatile loss during transport due to incorrect preservation / transport methods).
Completeness A measure of the amount of useable data from a data collection activity	Analytical data sets acquired during the investigation were evaluated as complete upon confirmation that: Standard operating procedures (SOPs) for sampling protocols were adhered to; and Copies of all chain of custody (COC) documentation were included and found to be properly completed. It could therefore be considered whether the proportion of “useable data” generated in the data collection activities was sufficient for the purposes of the land use assessment.
Comparability The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event	Given that several data sets from separate sampling episodes were required, issues of comparability were reduced through adherence to SOPs and regulator-endorsed or published guidelines and standards on each data gathering activity. In addition the data were collected by experienced samplers and NATA-accredited laboratory methodologies will be employed.

5.4 Sampling Rationale

With reference to the CSM described in **Section 4**, soil and groundwater investigation works were completed in accordance with the following rationale:

- Soil sampling was conducted at nine (9) boreholes (BH201M to BH209, including BH208M), placed in accessible parts of the site. Previous investigation of soil at 17 Oxford Street was conducted at eight borehole locations BH101M, BH102 to BH108. The total area of the proposed development is 2,533 m². This complies with the minimum density recommended under the NSW EPA (2022) *Sampling Design – Part 1, Table 2*, which recommends 9 systematic sample locations for areas up to 0.3 ha; and
- Groundwater monitoring event (GME) at three monitoring wells;
- Laboratory analysis of representative samples for the identified contaminants of concern.

5.5 Investigation Constraints

Constraints of this DSI include;

- Access constraints for the western portion of 13-15 Oxford Street due to building access limitations. Under the proposed development, a landscape/ deep soils zone is to be implemented within this area. This DSI only conducted intrusive investigations within the basement carpark area.
- Access constraints for the northern portion of 2 Verona Street, currently occupied by a commercial property. Under the proposed developments, soils in this area are outside the basement boundary. This DSI only conducted intrusive investigations within the car port area facing Verona Street.
- During previous investigation (EI, 2023), no intrusive works were undertaken within the eastern portion of 17 Oxford Street due to building access limitations.
- Access to other areas (including common areas and apartments) was not given at time of writing this report; and Inability to access to occupied office spaces within the site. Due to the approximate age of the buildings (at least since 1991), as per aerial history search, there is potential for hazardous material to exist, which may require further investigations.

5.6 Assessment Criteria

The assessment criteria adopted for this project are outlined in **Table 5-3**. These 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 various parts of the site, the likely exposure pathways and the identified potential receptors.

For the purposes of this DSI, the adopted soil assessment criteria are referred to as the Soil Investigation Levels (SILs) and the adopted groundwater assessment criteria are referred to as Groundwater Investigation Levels (GILs).

Table 5-3 Adopted Investigation Levels for Soil and Groundwater

Medium	Guidelines	Rationale
Soil	NEPC (2013) HILs, HSLs, EILs, ESLs and Management Limits for TRH	Soil Health-based Investigation Levels (HILs) NEPC (2013) <i>HIL-A</i> thresholds for residential settings with accessible soils were adopted due to the proposed deep soil zone covering the north-west portion of the site and areas along the eastern border of 2

Medium	Guidelines	Rationale
		Verona Street which are slab on residential terraces with private gardens (refer Section 1.2). NEPC (2013) <i>HIL-B</i> thresholds for residential settings with minimal opportunities for soil access adopted for non-landscape areas. Soil Health-based Screening Levels (HSLs) NEPC (2013) <i>HSL-A&B</i> thresholds for vapour intrusion for residential (soil texture classification – sand) were applied for conservatism, due to residential apartments constructed as slab on ground. This will assess potential human health impacts from residual vapours resulting from petroleum, BTEX and naphthalene. Asbestos Health Based Screening Levels Presence / absence of asbestos (not-detected) were utilised for preliminary screening purposes. The WADoH (2009)) assessment criteria, as presented in NEPM (2013), were not adopted for this investigation. Ecological Investigation / Screening Levels (EILs / ESLs) NEPC (2013) EILs/ESLs for urban residential and public open space land use scenarios were adopted, to assess the potential impact to proposed landscaping areas, where plants could be exposed to soils and where precipitation may result in subsurface infiltration and resulting leaching of soil impacts to groundwater. The derived EILs were determined by the addition of site specific Added Contaminant Limit and the Ambient Background Concentration for a high traffic NSW suburb. The adopted ESL's were based on soil texture. Physical characteristics of the soil were based on data gathered from the EI Geotechnical Investigation (EI, 2022) (pH) and from the eSPADE portal (DPIE, 2022) (Cation exchange capacity and Clay content) Management Limits for Petroleum Hydrocarbons Where the HSLs and ESLs for petroleum hydrocarbons were exceeded, sample results were also assessed against the NEPC (2013) <i>Management Limits</i> for the TRH F1-F4 fractions, to assess propensity for phase-separated hydrocarbons (PSH), fire and explosive hazards and adverse effects on buried infrastructure.
Groundwater	ANZG (2018) GILs for Fresh Waters	Groundwater Investigation Levels (GILs) for Fresh 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
	NEPC (2013) Groundwater HSLs for Vapour Intrusion	Health-based Screening Levels (HSLs) The NEPC (2013) groundwater HSL-A&B for vapour intrusion were used to assess potential human health impacts from residual vapours resulting from petroleum, BTEX and naphthalene impacts. As noted above, some residential apartments of the proposed development are constructed as slab on ground.

Note 1: CRC CARE (2017) High Reliability Ecological Criterion for benzo(α)pyrene in "Urban residential and public open space" sites were applied where required for comparative purposes to assess protection of terrestrial ecosystems.

5.7 Soil Sampling Methodology

Soil investigation works conducted at the site are described in **Table 5-4**. Test bore locations are illustrated in **Figure 2 (Appendix A)**.

Table 5-4 Summary of Soil Sampling Methodology (13-15 Oxford Street)

Activity/Item	Details
Fieldwork	The field works were conducted on 8, 9 September 2025 at 13-15 Oxford Street. Prior to commencement, the site services were surveyed by a qualified services locator. Review of plans supplied by Dial-Before-You-Dig was also performed.
Investigation Method	Test bores (BH202 to BH209), were drilled by hand auger on 8 September 2025 through the concrete slab of the bottom basement. Test bores BH208M and BH201M were constructed by solid flight auger on 8 and 9 September 2025 respectively. Boreholes BH201M and BH208M were then converted into groundwater monitoring wells. Sampling locations and RL (in mAHD) are presented in Appendix A Figure 2 (as BH202 to BH208M were drilled through basement slab) Borehole details are presented in the detailed logs attached in Appendix E.
Soil Logging	Drilled soils were classified in the field with respect to lithological characteristics and evaluated on a qualitative basis for odour and visual signs of contamination. Soil classifications and descriptions were based on Unified Soil Classification System (USCS) and Australian Standard (AS) 1731 - 2017. Soil descriptions are noted in the borehole logs presented in Appendix E .
Sample Collection	- Soil samples were collected using a dry grab method (unused, dedicated nitrile gloves) & placed into laboratory-supplied, acid-washed, solvent-rinsed glass jars and zip-lock bags. - Blind field duplicates were separated from the primary samples and placed into glass jars. - A small amount of duplicate was separated from fill samples and placed into a zip-lock bag for asbestos analysis.
Decontamination Procedures	Soil samples were collected using grab/dry methods and placed into laboratory-supplied, acid-washed, solvent-rinsed glass jars using dedicated nitrile gloves. Blind field duplicates were separated from the primary samples and placed into glass jars.
Sample Preservation and Transport	Samples were stored in chilled (ice brick-filled) chests, whilst on-site and in transit to the laboratory, which was performed under strict Chain-of-Custody (COC) conditions. Copies of the completed COC documentation (used to track sample movements) and laboratory Sample Receipt Advice (SRA) forms are provided in Appendix G .
Management of Soil Cuttings	Soil cuttings were used as backfill for completed boreholes, with the exception of monitoring wells (BH208M, and BH201M) which were backfilled using a combination of annular graded sand filter, granular bentonite and grout (see Appendix E).
Laboratory Analysis and Quality Control	Primary soil samples were analysed by SGS and Envirolab for the contaminants of concern. All samples were analysed within the required holding period, as documented in the corresponding laboratory reports (Appendix J). In addition to the split (inter-laboratory) field duplicate (analysed by Envirolab), QC testing comprised one blind (intra-laboratory) field duplicate, an equipment rinsate blank, a laboratory-prepared, trip spike soil sample and a laboratory-prepared, trip blank soil sample, all analysed by SGS.
Quality Control & Laboratory Analysis	Soil samples were submitted for analysis to SGS Laboratory (SGS) (primary laboratory). QA/QC testing comprised intra-laboratory duplicates ('field duplicates') tested blind by SGS and an inter-laboratory field duplicate tested blind by Envirolab Services (Envirolab) (secondary laboratory). All samples were transported under strict Chain-of-Custody (COC) conditions and COC certificates and laboratory sample receipt documentation were provided to EI for confirmation purposes, as

Activity/Item	Details
	discussed in Section 6 .

5.8 Groundwater Investigation

The groundwater investigation works conducted at the site are described in **Table 5-5**. Monitoring well locations are illustrated in **Figure 3, Appendix A**.

Table 5-5 Summary of Groundwater Investigation Methodology

Activity/Item	Details
Fieldwork	Two (2) groundwater monitoring wells were installed on 8 September 2025 (BH208M) and 9 September 2025 (BH201M) The newly constructed wells (BH201M and BH208M) were subsequently developed on the same day following drilling, to remove any water and/or seepage following drilling. During this DSI, groundwater level gauging, field testing and sampling of new wells and BH101M was conducted on 16 September 2025.
Well Construction	- On-site test bores were constructed to the following depths: - BH201M: 35.1 mAHD (screen interval at 39-36 mAHD) - BH208M: 35.2 mAHD (screen interval at 38.4-35.4 mAHD) - BH101M: 41.22 mAHD (screen interval at 44.22- 41.22 mAHD) (EI, 2023) Note: The surrounding ground level varied from approximately 50 mAHD in Verona Street to approximately 47 mAHD in Oxford Street (refer Section 2.5). Well construction was in general accordance with the standards described in NUDLC (2020 and involved the following (Appendix E): 50mm, Class 18 uPVC, threaded, machine-slotted screen and casing; - Base and top of each well was sealed with a uPVC cap; - Annular, graded sand filter to approximately 300 mm above top of screen interval; - Granular bentonite was applied above annular filter to seal the screened interval; - Cuttings backfilled to just below ground level; and - Surface completion was comprised of a stick-down through the ground surface.
Well Development	Well development for all wells was conducted by drilling staff following installation 8 and 9 September 2025. Well development was considered successful upon purging three times the well volume or until dry.
Well Gauging	Monitoring wells were gauged for standing water level (SWL, depth to groundwater) prior to field testing and sampling event on 16 September 2025. Gauging was conducted using a water/oil interface probe.
Well Purging & Field Testing	Groundwater sampling was conducted using a low-flow/ minimal draw-down method, utilising a bladder pump with dedicated tubing. Field measurement of water quality parameters was conducted on purged groundwater with a water quality meter (Hanna 98194 Multi Parameter) positioned within a sample jar. Groundwater parameters tested in the field were dissolved oxygen (DO), electrical conductivity (EC), oxidation-reduction potential (ORP), temperature and pH. The measured parameters were recorded onto a field data sheet (Appendix F), along with the purged water volume at the time of measurement.

Activity/Item	Details
Decontamination Procedure	The water level probe and the pump were washed in a solution of potable water and Decon 90, and then rinsed with potable water. All sample containers were supplied by the laboratory for the particular project and only opened once immediately prior to sampling.
Sample Preservation	The following sample containers supplied by the laboratory were used to store groundwater samples: ▪ One, amber glass, acid-washed and solvent-rinsed bottle; ▪ Two, 40 ml amber glass vials, pre-preserved with dilute hydrochloric acid, Teflon-sealed; and ▪ One, 250 mL, HDPE bottle, pre-preserved with dilute nitric acid (1 mL). ▪ Additional bottles and preservatives were used for a more detailed suite of analysed parameters, as listed and required by NSW DPE (2022) Appendix A, Table A2. Samples collected for metals analysis were field-filtered. All containers were filled with sample to the brim then capped and stored in chilled chests, until completion of the fieldwork and during sample transit to the laboratory.
Quality Control & Laboratory Analysis	All groundwater samples were submitted for analysis by SGS Laboratory (SGS). QA/QC testing comprised intra-laboratory duplicates ('field duplicates') tested blind by SGS and an inter-laboratory field duplicate tested blind by Envirolab Services (Envirolab).
Sample Transport	After sampling, refrigerated sample chests were transported to SGS using strict Chain-of-Custody (COC) procedures. Inter-laboratory duplicate (ILD) samples were forwarded to Envirolab Services Pty Ltd (Envirolab) for QA/QC analysis. Sample Receipt Advice (SRA) was provided by each laboratory to document sample condition upon receipt. SRA and COC certificates are presented in Appendix G.

6. DATA QUALITY ASSESSMENT

6.1 Data Quality Assessment

In accordance with the NSW EPA (2017) Guidelines for the NSW Site Auditor Scheme, Data Quality Objectives (DQOs) (based on the US EPA (2006) Data Quality Assessment) were established to determine the appropriate level of field and laboratory data quality needed for the specific data requirements of the project. The DQO process that was applied for this DSI is documented in **Table 6-1**. The findings of the data quality assessment in relation to the current investigation at the site are discussed in detail in **Appendix K**.

The QC measures generated from the field sampling and laboratory analytical program are summarised in **Table 6-1**.

Table 6-1 Quality Control Process

Data Quality	Control	Conformance [Yes, Part, No]	Report Sections
Preliminaries	Data Quality Objectives established	Yes	See Section 5
Field work	Suitable documentation of fieldwork observations including borehole logs, field notes.	Yes	See Appendix E and Appendix F
Sampling Plan	Use of relevant and appropriate sampling plan (density, type, and location)	Yes	See sample rationale
	All media sampled and duplicates collected	Yes	See Appendix B and Appendix I
	Use of approved and appropriate sampling methods	Yes	See Section 5
	Preservation and storage of samples upon collection and during transport to the laboratory	Yes	See Section 5
	Appropriate Rinsate, Field and Trip Blanks taken	Yes	See Appendix I
	Completed field and analytical laboratory sample COC procedures and documentation	Yes	See Appendix I and Appendix J
Laboratory	Sample holding times within acceptable limits	Yes	See Appendix I and Appendix J
	Use of appropriate analytical procedures and NATA-accredited laboratories	Yes	See Appendix I and Appendix J
	LOR/PQL low enough to meet adopted criteria	Yes	See Appendix I and Appendix J
	Laboratory blanks	Yes	See Appendix I and Appendix J
	Laboratory duplicates	Yes	See Appendix I and Appendix J

Data Quality	Control	Conformance [Yes, Part, No]	Report Sections
	Matrix spike/ (MS)	Yes	See Appendix I and Appendix J
	Surrogates (or System Monitoring Compounds)	Yes	See Appendix I and Appendix J
	Analytical results for replicated samples, including field and laboratory duplicates and inter-laboratory duplicates, expressed as Relative Percentage Difference (RPD)	Yes	See Appendix I and Appendix J
	Checking for the occurrence of apparently unusual or anomalous results, e.g. laboratory results that appear to be inconsistent with field observations or measurements	Yes	See Appendix I and Appendix J
Reporting	Report reviewed by senior staff to assess project meets desired quality, NSW EPA guidelines and project outcomes.	Yes	See Report Distribution page at front of report.

6.2 Quality Overview

On the basis of the field and analytical data validation procedure employed, the overall quality of analytical data produced for the site was considered to be of an acceptable standard for interpretive use and preparation of a conceptual site model (CSM).

7. RESULTS

7.1 Site Geology and Sub-surface Conditions

Soil sampling was conducted at nine (9) boreholes (BH201M to BH209, including BH208M), placed across 13-15 Oxford Street and 2 Verona Street. Eight boreholes were distributed across accessible areas of 13-15 Oxford Street (BH202 to BH209), and one borehole (BH201M) located within 2 Verona Street (BH201M). Findings from earlier investigation (EI, 2023) of 17 Oxford Street have also been included (BH101M to BH108).

Two boreholes (BH201M and BH208M) were converted to monitoring wells to complement monitoring well BH101M installed in the earlier investigation of 17 Oxford Street,

The general site geology encountered during the drilling of the soil investigation boreholes are summarised in **Table 7-1** with borehole logs from the works are presented in **Appendix E**.

Table 7-1 Generalised Subsurface Profile (mBGL)

Layer	Generalised Description	Depth top of layer to bottom of layer (mAHD)	Average thickness (m)
Concrete	Ground level	44 to 43.3 (13-15 Oxford Street basement) 50.22 to 49.9 (17 Oxford Street and 2 Verona Street)	0.17
Fill	SAND: fine grained, brown to yellow, with builders plastic and concrete, no odour (encountered at 17 Oxford Street)	49.22 to 46.72	1.15
Fill	GRAVEL: Course grained, sub angular to angular, dark grey, no odour. (13-15 Oxford Street only)	43.85 to 42.9* (* final depth unknown due to refusal)	0.125 (excluding refusal at BH207)
Natural residual soils	SAND: fine to coarse grained, orange brown to pale brown, with sandstone fragments, no odour. Sandy CLAY: low plasticity, pale grey, with medium grained sand, no odour.	49.82 to 40	13-15 Oxford Street basement: 0.45 Based on BH201M and BH101M: 7.2
Sandstone bedrock		44.52 -	

7.2 Field Observations

Soil samples were obtained and analysed from bores at various depths ranging between 0.15 to 1.0 mBGL. All soil samples collected were evaluated on a qualitative basis for odour and visual signs of contamination (e.g. hydrocarbon odours, oil staining, petrochemical filming, fragments of fibre containing substance (FCS), ash, slag and charcoal) and the following observations were noted:

13-15 Oxford Street

- No odours were identified during the investigation. VOC concentrations were low (with a maximum of 1.2 ppm, registered within sample BH206_0.3-0.4)
- No fragments of FCS (potential ACM) were visually observed in any of the examined soils;
- No ash or slag was observed in any of the examined soils;
- No visible evidence of potential or actual ASS (such as pale yellow deposits/coatings of jarosite), was observed in any of the bore cuttings.

17 Oxford Street (EI)

- No odours were identified during the investigation. VOC concentration were low (0.26 to 4.2 ppm);
- No fragments of FCS (potential ACM) were observed in examined soils;
- Fragments of concrete and builders plastic were observed in examined soils. No other foreign materials (ash, slag or charcoal) were observed was observed;

No visible evidence of potential or actual ASS (such as pale yellow deposits/coatings of jarosite), was observed in any of the bore cuttings.

7.3 Groundwater Monitoring Event

7.3.1 Monitoring Well Construction

Two monitoring wells (BH201M and BH208M) were installed within the site boundary to investigate the onsite potential for groundwater contamination. These complemented an existing onsite groundwater monitoring well (BH101M), located within 17 Verona Street.

Well construction details for the three groundwater monitoring wells are summarised in **Table 7-2** and in **Appendix E**.

Table 7-2 Groundwater Monitoring Well Construction Details

Well ID	Date Installed	Bore depth (mAHD)	SWL (mBTOC)	Ground Level (mAHD est.)	RL mAHD (est.) (TOC)	SWL (mAHD est.)	Screen Interval (mAHD)	Lithology Screened
BH101M	1/8/23	41.22	5.92	50.22	50.17	44.25	44.22-41.22	Sandstone
BH201M	9/9/25	35.1	6.0	50.1	50.02	44.82	39-36	Sandstone
BH208M*	8/9/25	35.2	0.6	43.5 (at basement)	43.4	42.8	38.4-35.4	Sandstone

Notes:

Note 1 mBGL = metres below ground level.

Note 2 RL (TOC) – Reduced Level, estimated elevation at TOC in metres relative to Australian Height Datum (m AHD) from the provided survey plan (Boxall, 2025).

Note 3 * Installed within basement footprint of 13-15 Oxford Street

7.4 Field Observations

One GME was conducted by EI on 16 September 2025 to sample all wells. Groundwater was evaluated in the field on the basis of odour and visual signs of contamination, with the following observations noted:

- Groundwater recovered from monitoring wells was pale brown to grey and turbid. There were no visual or olfactory signs of contamination

Water quality parameters recorded for all groundwater wells collected during the GME are presented in **Table 7-3**. Field data sheets are attached in **Appendix F**.

Table 7-3 Groundwater Field Data (14/01/25)

Well	SWL (mAHD)	DO (mg/L)	pH	EC (μ S/cm)	T ($^{\circ}$ C)	ORP ¹ (mV)
BH201M	42.68	0.01	4.98	412	17.71	-10.8
BH208M*	42.56	0.04	4.69	414	16.33	448.9
BH101M	45.42	0.3	4.99	303	17.19	342.1

Notes:

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

* Installed within basement footprint of 13-15 Oxford Street

As per readings presented above, groundwater recovered from the four wells can be considered to be:

- Oxygen depleted
- Slightly acidic (pH between 4-6.5)
- Fresh (EC<800\ μ S/cm)
- Under both oxidising and reducing conditions

Standing water levels (SWL) measured at the wells collected during this GME varied from 42.56 mAHD (BH201M), 42.68 mAHD (BH201M) and 45.42 mAHD (BH101M). The water levels within the groundwater monitoring wells indicates groundwater low direction north-east and south-west from BH101M located at the north-western portion of 17 Oxford Street.

7.5 Laboratory Analytical Results

7.5.1 Soil Analytical Results

A summary of the soil analytical results for the tested (representative) soil samples located at 13-15 Oxford Street, 2 Verona Street, and including earlier sampling date from 17 Oxford Street are presented in **Table 7-4**. More detailed tabulation of results, showing the concentrations for individual samples alongside the adopted soil criteria, is presented in **Table 1, Appendix B**. The corresponding laboratory analytical reports are presented in **Appendix J**.

Table 7-4 Summary of Soil Analytical Results

Number of Samples	Analyte	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Sample(s) Exceeding SILs
Metals				
26	Arsenic	<1	1	None
26	Cadmium	<0.3	<0.3	None
26	Chromium	<0.5	15	None
26	Copper	<0.5	670	None
26	Lead	1	110	None
26	Mercury	<0.05	0.83	None

Number of Samples	Analyte	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Sample(s) Exceeding SILs
26	Nickel	<0.5	10	None
26	Zinc	5.9	150	None
PAH				
26	Naphthalene	<0.1	<0.1	None
26	Benzo(a)pyrene	<0.1	0.3	None
26	Carcinogenic PAHs (as B(a)P TEQ)	<0.2	1.2	None
26	Total PAH	<0.8	7.1	None
BTEX				
26	Benzene	<0.1	<0.1	None
26	Toluene	<0.1	<0.1	None
26	Ethyl benzene	<0.1	<0.1	None
26	Xylenes (total)	<0.3	<0.3	None
TRH				
26	F1	<25	<25	None
26	F2	<25	<25	None
26	F3	<90	<90	None
26	F4	<120	<120	None
Pesticides				
17	OCP	<0.1	<0.1	None
17	OPP	<1.7	<1.7	None
PCB				
17	Total PCB	<0.1	<0.1	None
Asbestos				
17	Asbestos (Presence/Absence)	Present	Present	<u>Asbestos detected:</u> <u>17 Oxford Street:</u> BH103-1.8-1.9 (Chrysotile asbestos found as approx.. 7x4x2mm fibrous mass) BH105-0.3-0.4 (Chrysotile asbestos found as approx.. 6x4x2mm fibrous mass)

7.5.2 Groundwater Analytical Results

A summary of laboratory results showing test sample quantities, maximum analyte concentrations and samples found to exceed the GILs, are presented in **Table 7-5**. More detailed tabulations of results showing the tested concentrations for individual samples alongside the adopted groundwater criteria are presented in **Table 2, Appendix B**.

Completed documentation used to track groundwater sample movements and laboratory receipt (i.e. COC and SRA forms) are copied in **Appendix I** and all laboratory analytical reports for tested groundwater samples are presented in **Appendix J**.

Table 7-5 Summary of Groundwater Analytical Results

No. of primary samples	Analyte	Min Conc. (µg/L)	Max Conc. (µg/L)	Samples exceeding investigation levels
Metals				
4	Arsenic	<1	<1	None
4	Cadmium	<0.1	<0.1	None
4	Chromium (Total)	<1	2	None
4	Copper	3	6	<u>ANZG -Marine Water -1.3 µg/L</u> BH201M (6 µg/L) BH208M (3 µg/L) BH101M-2 (6 µg/L)
4	Lead	<1	<1	None
4	Mercury	<0.05	<0.1	None
4	Nickel	3	8	None
4	Zinc	13	65	<u>ANZG -Marine Water - 8µg/L</u> BH201M (35 µg/L) BH208M (13 µg/L) GW-BH101M (23 µg/L) BH101M-2 (65 µg/L)
PAHs				
4	Naphthalene	<0.1	<0.1	None
4	Benzo(a)pyrene	<0.1	<0.1	None
4	Total PAH	<1	<1	None
BTEX				
4	Benzene	<0.5	<0.5	None
4	Toluene	<0.5	86	None
4	Ethyl benzene	<0.5	<0.5	None
4	m/p-xylene	<1	<1	None
4	o-xylene	<0.5	<0.5	None
TRHs				
4	F1 ¹	<50	130	<u>> Limit of reporting - 50µg/L</u> BH208M (130 µg/L)
4	F2 ²	<60	83	<u>> Limit of reporting - 60µg/L</u> BH201M (83 µg/L) BH208M (68 µg/L)

No. of primary samples	Analyte	Min Conc. (µg/L)	Max Conc. (µg/L)	Samples exceeding investigation levels
4	F3 ³	<500	<500	None
4	F4 ⁴	<500	<500	None
VOCs				
1	Total VOC	86	86	None
PFAS				
1	PFOS+ PFHxS	0.04	0.04	None
1	PFOS	0.03	0.03	None
1	PFOA	0.04	0.04	None
Total Phenols				
1	Total Phenols	<0.05	<0.05	None

To obtain F1, subtract the sum of BTEX concentrations from the C₆-C₁₀ fraction.

To obtain F2, subtract Naphthalene from the >C₁₀-C₁₆ fraction.

F3 -(C₁₆-C₃₄).

F4 -(C₃₄-C₄₀).

Note 1: Samples were analysed for total Chromium.

8. SITE CHARACTERISATION

8.1 Soil Impacts

With reference to **Table 7-4** and **Table 2, Appendix B**, recovered soil samples from boreholes BH202 to BH209 at 13-15 Oxford Street, BH101M to BH108M at 17 Oxford Street (previous investigation), and BH201M at 2 Verona Street were assessed against the adopted health based and ecological criteria (refer **Table 5-3**). Concentrations of contaminants of concern were reported below the adopted guidelines with the exception of the following

- Friable asbestos was identified in fill at locations BH103_1.8-1.9 and BH105_1.3-1.4 within 17 Oxford Street
- No asbestos was found (at laboratory LOR of 0.01 %w/w) in soil at 13-15 Oxford Street or 2 Verona Street

Soil sampling at 13-15 Oxford Street was conducted below the deepest slab of the 2-level basement car park. Recovered soil samples were typically deeper than 4 m below the general ground level of the area. 13-15 Oxford Street had a former land use as a fuel service station. There was no evidence of remnant petroleum hydrocarbon impact in soil.

8.2 Groundwater Impacts

Groundwater investigation was undertaken at three (3) monitoring well locations (BH201M, BH208M and BH101M) within the site. Field testing found that the groundwater was clear to brown, slightly to highly turbid, with no odour or sheen, and was slightly acidic, saline and mostly oxidising conditions.

From results summarised in **Table 7-5** and provided in **Table 3, Appendix B**, concentrations of potential contaminants in groundwater were found to be below the adopted human health-based criteria for site land use settings (ANZG, 2018), with the exception of:

- Copper (Cu) at BH201M, BH208M and B101M-2;
- Zinc (Zn) at BH201M, BH208M and B101M-2;
- TRH F1 at BH208M (reported above LOR); and
- TRH F2 at BH201M and BH208M (reported above LOR).

The concentrations of the priority metals (Cu and Zn) across the site exceeded the marine water GILs, however there was no evidence of contamination from in-situ soil material. Hence, concentrations of metals observed are consistent with expected background concentrations of an urban environment.

Concentrations of petroleum hydrocarbons (TRH-F1 and TRH-F2) were reported marginally above the LOR at BH208M and BH201M. The human health and ecological risk from petroleum hydrocarbons detected in groundwater was considered to be low and acceptable.

8.3 Review of Conceptual Site Model

On the basis of investigation findings, the CSM discussed in **Section 4** was considered to appropriately identify contamination sources, migration mechanisms and exposure pathways, as well as potential onsite and offsite receptors.

8.3.1 Data Gaps and Limitations

The distribution of soil sampling locations was limited to accessible areas of the site. There were occupied residential and commercial properties at the site and soil sampling was not conducted within the footprints of these buildings due to access constraints. These areas include;

- The western portion of 13-15 Oxford Street. Under the proposed development, a landscape/ deep soils zone is to be provided within this area;
- The eastern portion of 17 Oxford Street. Previous investigations (EI, 2023) did not conduct any intrusive works within this area; and
- The northern portion of 2 Verona Street, currently occupied by a commercial property, Under the proposed developments, soils in this area are outside the basement footprint.

9. CONCLUSION

The site identified as 13-15 Oxford Street, 17 Oxford Street and 2 Verona Street, Paddington NSW was the subject of this DSI. The key findings of this DSI were as follows:

- A review of aerial imagery and historical records identified that;
 - The property at 13-15 Oxford Street was used as a fuel service station (Shell) between 1949 and 1972 and for commercial use until 1981 or 1982. The site was redeveloped between 1982 and 1984 into a residential apartment complex overlying a two-level basement carpark, which is the current use. The basement carpark occupies the majority of the footprint of the property.
 - The current building on 17 Oxford Street was likely constructed in the 1940s and used for light industrial and warehousing purposes before being refurbished for current retail/commercial use as a local entertainment premises.
 - The current building on 2 Verona Street was likely constructed by 1934 and used for light industrial and warehousing purposes before being refurbished for commercial use in 1982.
 - Land surrounding the proposed development area has remained mixed residential and commercial use since at least 1941. Redevelopment of sites immediately adjacent north and west has occurred.

No other relevant council records relating to contamination, storage of dangerous goods or any other environmental issues were reported as at time of writing this report.

- The site was 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 was not included on the *List of NSW Contaminated Sites Notified to the EPA*.
- One property located at 59 Oxford Street approximately 71m south-east of the development area, identified as a 7-Eleven service station was listed on the contaminated land public record and the *List of NSW Contaminated Sites Notified to the EPA*. However as the site is downgradient of the development area, migration of contaminants is unlikely.
- One property, located at 52 Hopewell Street, approximately 213m north-east, identified as a former workshop was listed on the *List of NSW Contaminated Sites Notified to the EPA*. However as the former workshop is downgradient of the development area, migration of contaminants is unlikely.
- Site inspection found no visual evidence of gross contamination. No suspicious odours were detected during the site inspection, or during any of the field (sampling) works.
- There was no evidence that underground storage tanks (USTs) were present on the site. No above-ground storage tanks (ASTs) were identified.
- The site lithology was generalised as a ground level concrete slab overlying sand fill to a maximum depth of 46.72 mAHD followed by sand and sandy clay (to a maximum depth of 40 mAHD) then sandstone bedrock, first encountered at 44.52 mAHD. The basement slab at 13-15 Oxford Street was underlain by gravel fill then sand.
- The site lies within an acid sulfate soil class description of 'No Known Occurrence'. Acid sulfate soils are not known or expected to occur within the proposed development area, and further assessment and management is not required.

- An assessment of the collected soil samples against adopted health-based and ecological criteria (NEPC, 2013) for the site area (13-15 Oxford Street and 2 Verona Street) was conducted, including samples collected from 17 Oxford Street as part of a previous DSI (EI, 2023). Concentrations of contaminants of concern were reported below the adopted guidelines with the exception of the following:
 - Friable asbestos was identified in fill at locations BH103_1.8-1.9 and BHB105_1.3-1.4 at 17 Oxford Street.
- Groundwater was gauged at three monitoring wells and was found to be 42.68 mAHD (BH201M), 45.42 mAHD (BH101M) and 42.56 mAHD (BH208M). The potentiometric slope was anticipated to be north-easterly.
- Groundwater was observed to be turbid but free from odour or staining. The water was acidic, saline and mostly oxidising.
- An assessment of the collected groundwater samples against the NEPC (2013) and ANZG (2018) criteria indicated the concentrations of contaminants were below adopted groundwater investigation levels with the exception of following:
 - Copper and zinc; and
 - Petroleum hydrocarbons (as TRH-F1, TRH-F2), detected above laboratory LOR.
- There was no evidence of metal contamination from in-situ soil. The concentrations of metals observed in groundwater are consistent with expected background concentrations of an urban environment. The human health and ecological risk from metals in groundwater was low and acceptable.
- Concentrations of petroleum hydrocarbons (TRH-F1 and TRH-F2) were reported marginally above the laboratory LOR in groundwater. The human health and ecological risk from petroleum hydrocarbons detected in groundwater was considered to be low and acceptable.
- There was no evidence of remnant petroleum hydrocarbon impact in soil or groundwater from former service station operations at 13-15 Oxford Street, which ceased in 1972.
- The CSM developed for the site (**Section 4**) was considered to appropriately identify contamination sources, migration mechanisms and exposure pathways, as well as potential onsite and offsite receptors. However some data gaps remained due to access constraints within existing buildings:
 - The northern portion of 2 Verona Street. The soils in this area are outside the basement footprint of the proposed development and will be retained;
 - The western portion of 13-15 Oxford Street. Under the proposed development, a landscape/ deep soils zone is to be implemented within this area; and
 - The eastern portion of 17 Oxford Street. No intrusive investigation has been completed.

Based on the findings of this DSI and with due consideration of EI's Statement of Limitations (**Section 11**), it was concluded that the potential for contamination within 13-15 Oxford Street and 2 Verona Street is low. Friable asbestos was identified in fill at 17 Oxford Street. Some data gaps remain due to site access constraints.

The site can be made suitable for the proposed development provided that implementation of remediation and validation works for 17 Oxford Street, are carried out, as outlined in the RAP (EI, 2024a) and that recommendations presented in **Section 10** are followed. Recommendations can be incorporated into the planning and consent process for the proposed development.

10. RECOMMENDATIONS

EI makes the following recommendations in relation to the site at 13-15 Oxford Street, 17 Oxford Street and 2 Verona Street, Paddington NSW.

- Implementation of remediation and validation works for 17 Oxford Street, as outlined in the RAP (EI, 2025).
- Preparation of a site validation report describing additional investigations, remediation and waste classification. The Site validation report shall provide a conclusion regarding suitability of the site for the proposed development.
- Additional intrusive investigation to close data gaps remaining at the subject site following demolition, namely within previously inaccessible soils located within;
 - The western portion of 13-15 Oxford Street;
 - The eastern portion of 17 Oxford Street; and
 - The northern portion of 2 Verona Street;
- An asbestos clearance inspection and certificate should be completed by a suitably qualified professional (SafeWork NSW Licensed Asbestos Assessor) following demolition of existing site structures.
- Preparation of an asbestos management plan for management of asbestos during demolition and subsequent soil remediation according to Work Health and Safety Regulation 2017. A hazardous materials assessment of existing buildings and preparation of a hazardous materials report due to the relative age of existing site structures. This will guide demolition of existing buildings and prevent uncontrolled distribution of hazardous materials during demolition;
- Waste classification of waste and surplus material (including potential virgin excavated natural material - VENM) to be removed from the site, in accordance with the NSW EPA (2014) Waste Classification Guidelines, Protection of the Environment Operations Act 1997, and Work Health and Safety Regulation 2017;
- Assessment of any soil/fill material imported onto the site. Imported soil must be classified as virgin excavated natural material (VENM) or have a classification certificate indicating that it is suitable for the proposed land use; and

EI notes that these recommendations can be managed through the development application process.

11. STATEMENT OF LIMITATIONS

This report has been prepared for the exclusive use of 17 Oxford Street Pty Ltd, whom is the only intended beneficiary of EI's work. The scope of the investigation carried out for the purpose of this report was limited to that agreed with 17 Oxford Street Pty Ltd.

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

The findings presented in this report are the result of discrete and specific sampling methodologies used in accordance with best industry practices and standards. Due to the site-specific nature of soil sampling from point locations, it is considered likely that all variations in subsurface conditions across a site cannot be fully defined, no matter how comprehensive the field program.

While normal assessments of data reliability have been made, EI assumes no responsibility or liability for errors in any data obtained from previous assessments conducted on site, regulatory agencies (e.g. Council, NSW EPA), statements from sources outside of EI, or developments resulting from situations outside the scope of works of this project.

Despite all reasonable care and diligence, the ground conditions encountered and concentrations of contaminants measured may not be representative of conditions between the locations sampled and investigated. In addition, site characteristics may change at any time in response to variations in natural conditions, chemical reactions and other events (e.g. groundwater movement and or spillages of contaminating substances). These changes may occur subsequent to EI's investigation.

EI's assessment is necessarily based upon the results of the site investigation and the restricted program of surface and subsurface sampling, screening and chemical testing which was set out in the project proposal. Neither EI, nor any other reputable consultant, can provide unqualified warranties nor does EI assume any liability for site conditions not observed or accessible during the time of the investigations.

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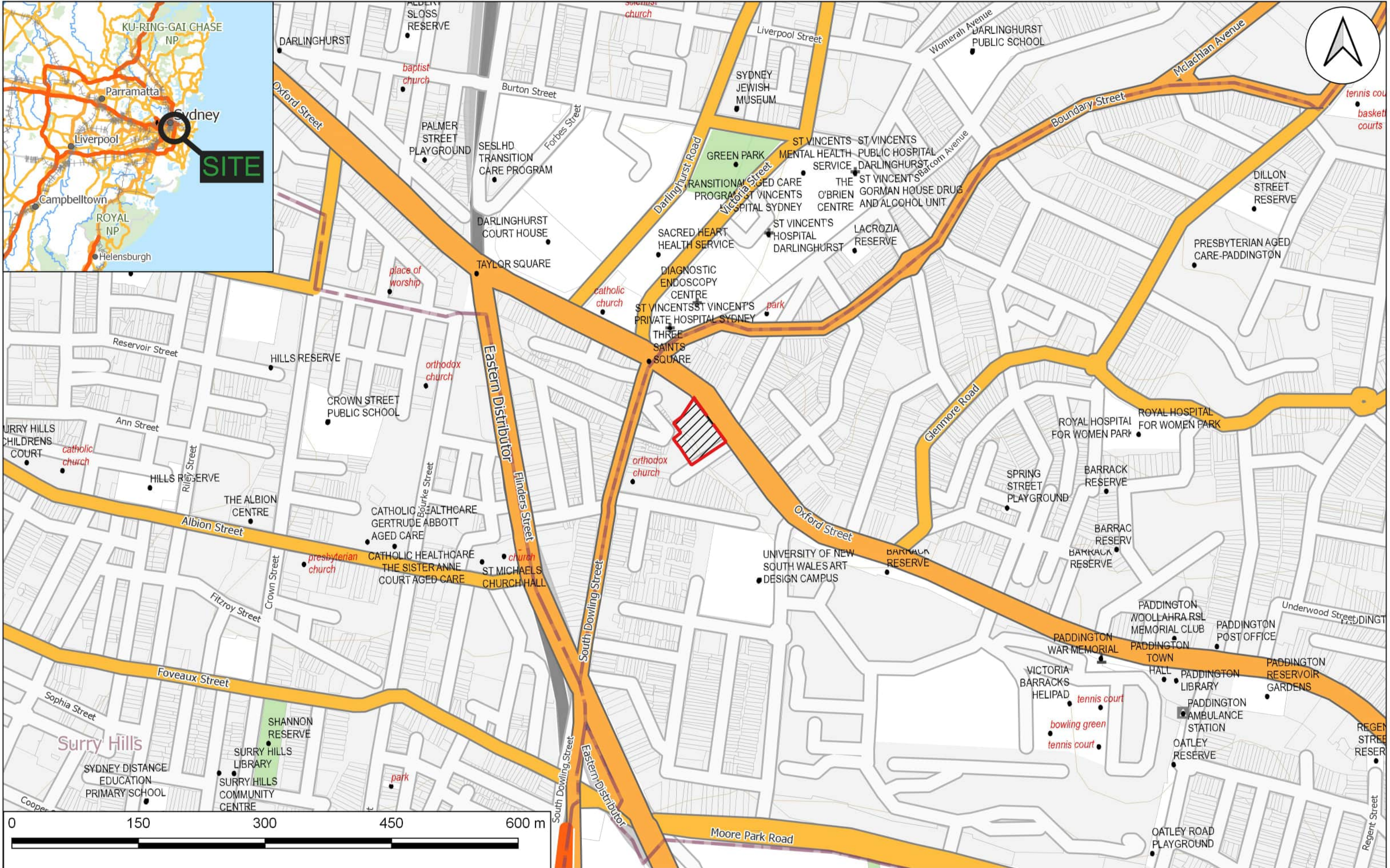
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ABBREVIATIONS

ACM	Asbestos-Containing Materials
ANZG	Australian and New Zealand and Australian State and Territory Governments
AS	Australian Standard
ASS	Acid Sulfate Soils
AST	Above-Ground Storage Tank
B(a)P	Benzo(a)Pyrene (a polycyclic aromatic hydrocarbon compound)
BH	Borehole
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CBD	Central Business District
CLM	Contaminated Land Management
COC	Chain of Custody
COPC	Contaminants of Potential Concern
CSM	Conceptual Site Model
DA	Development Application
DBYD	Dial Before You Dig
DP	Deposited Plan
DQI	Data Quality Indicators
DQO	Data Quality Objectives
DSI	Detailed Site Investigation
NSW EPA	Environment Protection Authority (of New South Wales)
ESL	Ecological Screening Level
F1	C ₆ -C ₁₀ TRH less sum of BTEX concentrations
F2	>C ₁₀ -C ₁₆ TRH less naphthalene
F3	>C ₁₆ -C ₃₄ TRH
F4	>C ₃₄ -C ₄₀ TRH
FCS	Fibre Cement Sheeting
HIL	Health-based Investigation Level
HM	Heavy Metals
HMS	Hazardous Materials Survey
HSL	Health-based Screening Level
km	Kilometres
LBP	Lead-Based Paint
LGA	Local Government Area
LOR	Limit of Reporting (of corresponding laboratory analytical method)
m	Metres
mAHD	metres Australian Height Datum
mBGL	metres Below Ground Level
mg/kg	Milligrams per Kilogram
mg/L	Milligrams per Litre
µg/L	Micrograms per Litre
NEPC	National Environmental Protection Council
NEPM	National Environmental Protection Measure
NSW	New South Wales
OCP	Organochlorine Pesticides
OPP	Organophosphorus Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PFAS	Per- or Poly- Fluoroalkyl Substances
PID	Photo-Ionisation Detector
pH	Potential (a measure of the acidity or basicity of an aqueous solution)
ppm	Parts per Million

PQL	Practical Quantitation Limit (limit of detection for a given laboratory method)
QA/QC	Quality Assurance / Quality Control
RAP	Remediation Action Plan
SEPP	State Environmental Planning Policy
SIL	Soil Investigation Level
SP	Strata Plan
SRA	Sample Receipt Advice (document confirming laboratory receipt of samples)
SWL	Standing Water Level
TCLP	Toxicity Characteristics Leaching Procedure
TEQ	Toxicity Equivalent Quotient
TPH	Total Petroleum Hydrocarbons (superseded term equivalent to TRH)
TRH	Total Recoverable Hydrocarbons (non-specific analysis of organic compounds)
UCL	Upper Confidence Limit (of the arithmetic mean)
UPSS	Underground Petroleum Storage System
US EPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compounds (specific organic compounds which are volatile)

Appendix A -Figures



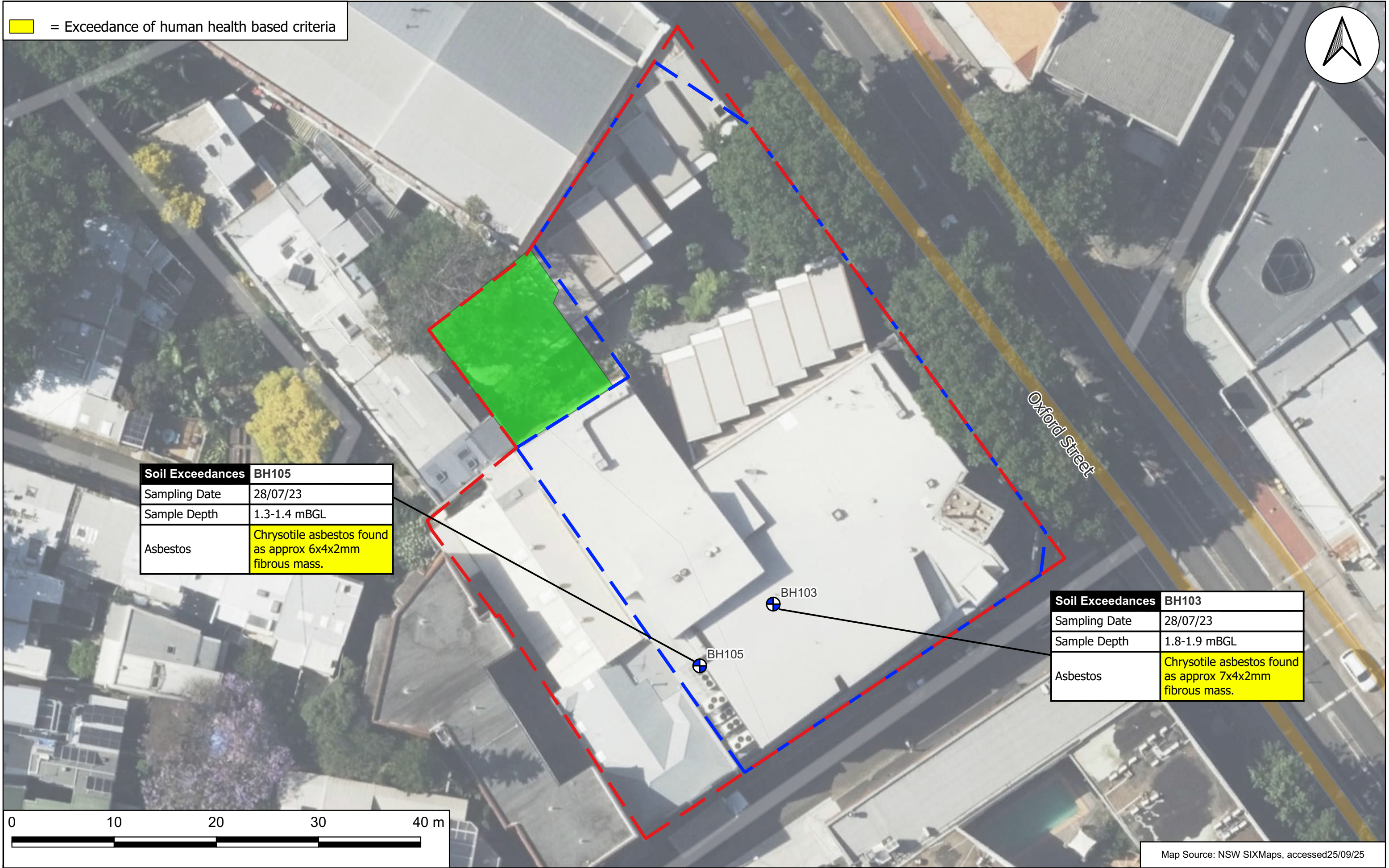
LEGEND Note: All locations are approximate  Site Location	 Practical Solutions for Built Environments Suite 6.01, 55 Miller Street, PYRMONT 2009 Ph (02) 9516 0722 Fax (02) 9518 5088	Drawn:	M.C.	17 Oxford Street Pty Ltd Detailed Site Investigation 13-15 Oxford Street, 17 Oxford Street & 2 Verona Street, Paddington NSW Site Locality Plan	Figure: 1
		Approved:			Project: E25559.E02.002 Rev0
		Date:	17/11/2025		



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:	M.C.	17 Oxford Street Pty Ltd Detailed Site Investigation 13-15 Oxford Street, 17 Oxford Street & 2 Verona Street, Paddington NSW Soil Sampling Plan	Figure: 2
 Site Boundary	 Borehole location		Approved:			
 Proposed Basement Boundary	 Borehole/monitoring well location		Date:	18/11/2025		
 Proposed deep soil landscape area	 Previous borehole location (EI DSI, 2023)		Project: E25559.E02.002_Rev0			
 Previous borehole/monitoring well location (EI DSI, 2023)						



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:	M.C.	17 Oxford Street Pty Ltd Detailed Site Investigation 13-15 Oxford Street, 17 Oxford Street & 2 Verona Street, Paddington NSW Groundwater Sampling Plan	Figure:	3
 Site Boundary	 Borehole/monitoring well location		Approved:				
 Proposed Basement Boundary	 Previous monitoring well location (EI DSI, 2023)		Date:	18/11/2025		Project: E25559.E02.002_Rev0	
 Proposed deep soil/landscape area	SWL based on data measured during GME on 16/09/25						



Appendix B -Tables

Table T2 - Summary of Groundwater Analytical Results

Sample ID	Sampling Date	Metals								PAHs			Total VOC	BTEX					TRHs				PFAS			Total Phenols	
		As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	Total PAHs	Benzo(a)pyrene	Naphthalene		Benzene	Toluene	Ethylbenzene	m,p-xylene	o-xylene	F1	F2	F3	F4	PFOS + PFHxS	PFOS	PFOA		
EI DSI, 2023																											
GW-BH101M	2/8/2023☐	<1	<0.1	<1	<1	<1	<0.1	3	23	<1	<0.1	<0.1	<10	<0.5	<0.5	<0.5	<0.5	<1	<50	<60	<500	<500	N.A.	N.A.	N.A.	<50	
EI DSI, 2025																											
BH201M	16/9/2025	<1	<0.1	2	6	<1	<0.05	8	35	<1	<0.1	<0.1	N.A.	<0.5	3	<0.5	<1	<0.5	<50	83	<500	<500	N.A.	N.A.	N.A.	<0.05	
BH208M		<1	<0.1	<1	3	<1	<0.05	4	13	N.A.	<0.1	<0.1	86.0	<0.5	86	<0.5	<1	<0.5	130	68	<500	<500	0.04	0.03	0.04	<0.05	
BH101M-2		<1	<0.1	1	6	<1	<0.1	3	65	<1	<0.1	<0.1	N.A.	<0.5	<0.5	<0.5	<1	<0.5	<50	<60	<500	<500	N.A.	N.A.	N.A.	<0.05	
Statistical Analysis																											
Minimum Concentration		<1	<0.1	<1	<1	<1	<0.1	3	13	<1	<0.1	<0.1	<10	<0.5	<0.5	<0.5	<1	<0.5	<50	<60	<500	<500	0.04	0.03	0.04	<0.05	
Maximum Concentration		<1	<0.1	2	6	<1	<0.1	8	65	<1	<0.1	<0.1	86	<0.5	86	<0.5	<1	<0.5	130	83	<500	<500	0.04	0.03	0.04	<0.05	
GILs																											
HSL A & B - Low to high density residential Soil texture classification – Sand		2m to <4m												800	NL	NL	NL	NL	1,000	1,000							
		4m to <8m												800	NL	NL	NL	NL	1,000	1,000							
		8m+												900	NL	NL	NL	NL	1,000	1,000							
ANZG (2018) Marine Water ¹		24 (AsIII) 13 (AsV) ⁶	0.7 ²	4.4(Cr VI) 27 (Cr III)	1.3	4.4	0.1 ²	70	8			70		700 ³	180 ⁴	80 ⁴	275 ⁴	350 ⁴	50 ⁵	60 ⁵	500 ⁵	500 ⁵		0.13 ^{3,7}	220 ^{3,7}		

Notes:

	Highlighted indicates criteria exceeded
	Highlighted indicates criteria exceeded ANZG (2018) marine water criteria

All values are µg/L unless stated otherwise

HSL D NEPC 1999 Amendment 2013 'HSL D' Health Based Screening Levels for vapour intrusion applicable for commercial/industrial settings.

NL Not Limiting

F1 To obtain F1 subtract the sum of BTEX concentrations from the C6-C10 fraction.

F2 To obtain F2 subtract naphthalene from the >C10-C16 fraction.

F3 (>C16-C34)

F4 (>C34-C40)

1 ANZG (2018) Groundwater Investigation Levels for fresh and marine water quality, based on ANZECC & ARMCANZ (2000)

2 Chemical for which possible bioaccumulation and secondary poisoning effects should be considered, refer to ANZG (2018) for further guidance.

3 Figure may not protect key species from chronic toxicity, refer to ANZECC & ARMCANZ (2000) for further guidance

4 Low reliability toxicity data, refer to ANZECC & ARMCANZ (2000)

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

6 Based on NHMRC (2011 - update June 2025 v4.0) Drinking Water Guidelines. 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 *

7 Value derived from the National Environmental Management Plan for PFAS - 95% species protection for slightly to moderately disturbed systems.

Table B1 – Summary of Soil Investigation Results

E25559.E02 - Paddington

Sample ID	Sampling Date	Priority Metals								PAHs				BTEX				TRHs				Pesticides		Total PCBs	Asbestos	
		As	Cd	Cr ⁶	Cu	Pb	Hg	Ni	Zn	Carcinogenic PAHs (as B(a)P TEQ)	Benzo(a)pyrene	Total PAHs	Naphthalene	Benzene	Toluene	Ethylbenzene	Total Xylenes	F1 (C6 - C10)	F2 (C10 - C16)	F3 (C16 - C34)	F4 (C34 - C40)	OCPs	OPPs		Present / Absent	
EI DSI, 2023																										
BH101M_0.3-0.4	28/07/2023	1	<0.3	2	5.6	54	0.08	0.7	78	0.4	0.2	2.1	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	
BH101M_1.3-1.4		<1	<0.3	1	0.5	3	<0.05	<0.5	15	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	NA	NA	NA	NA	
BH102_0.3-0.4		1	<0.3	2.4	8	110	0.2	0.9	89	0.5	0.3	2.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	
BH103_0.3-0.4		1	<0.3	2.2	8.3	51	0.08	1.4	51	0.3	0.2	1.6	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	
BH103_1.8-1.9		1	<0.3	2.2	5.9	75	0.11	0.9	69	1.2	0.8	7.1	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Chrysotile asbestos found as approx 7x4x2mm fibrous mass.	
BH104_0.8-0.9		<1	<0.3	1.9	4.3	42	0.08	0.9	46	<0.3	0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	
BH104_1.3-1.4		1	<0.3	2.5	4.8	59	0.1	1.1	95	0.5	0.3	3.2	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	NA	NA	NA	NA	
BH104_2.8-2.9		1	<0.3	5.1	11	75	0.08	10	150	0.3	0.2	2	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	
BH105_1.3-1.4		1	<0.3	2.2	6.8	56	0.06	1.1	80	<0.3	0.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Chrysotile asbestos found as approx 6x4x2mm fibrous mass	
BH105_3.3-3.4		<1	<0.3	1.6	3.2	32	<0.05	0.8	65	0.5	0.3	3.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	NA	NA	NA	NA	
BH106_0.3-0.4		1	<0.3	2	4.6	64	0.83	1.1	100	0.3	0.2	1.9	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	
BH107_0.3-0.4		1	<0.3	1.7	3.5	84	0.29	0.9	100	0.5	0.3	3	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	
BH107_0.8-0.9		1	<0.3	1.4	2.4	75	0.32	0.9	95	0.5	0.3	3.5	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	NA	NA	NA	NA	
BH108_0.3-0.4		<1	<0.3	1.5	5.8	99	0.27	0.7	95	0.8	0.5	5.1	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	
Soil Sampling Results																										
BH202_0.2-0.3	8/9/2025	1	<0.3	<0.5	100	1	<0.05	3.6	8.7	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent	
BH203-0.2-0.3		1	<0.3	4	3.7	18	0.06	0.6	9.7	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent	
BH204-0.15-0.2		1	<0.3	0.8	670	2	<0.05	3.8	44	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent	
BH204-0.5-0.6		1	<0.3	6.7	1.2	8	0.06	<0.5	6.9	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	
BH205-0.2-0.3		1	<0.3	1.3	97	1	<0.05	3.6	11	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent	
BH205-0.4-0.5		1	<0.3	7.9	0.7	9	<0.05	<0.5	8.7	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	
BH206-0.15-0.2		1	<0.3	5.3	22	6	<0.05	1.2	7	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent	
BH207-0.2-0.3		1	<0.3	0.7	180	2	<0.05	3.2	39	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent	
BH208M-0.7-0.8		1	<0.3	15	<0.5	10	<0.05	1	6.9	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	
BH209-0.2-0.3		1	<0.3	0.7	120	4	<0.05	3	11	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent	
BH209-0.8-0.9	9/9/2025	<1	<0.3	2.4	0.5	9	0.08	<0.5	5.9	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	
BH201M-0.8-1.0		<1	<0.3	1.2	1.9	10	0.08	0.6	15	0.5	0.3	3.3	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	
Statistical Analysis																										
Minimum concentration		<1	<0.3	<0.5	<0.5	1	<0.05	<0.5	5.9	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Chrysotile Asbestos	
Maximum concentration		1	<0.3	15	670	110	0.83	10	150	1.2	0.8	7.1	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Chrysotile Asbestos	
NEPM (2013) Criteria																										
HIL A - Residential with garden / accessible soil		100	20	100 Cr(VI)	7,000	300	200	400	8,000		3	300									240		1			
HIL B - Residential with minimal soil access		500	150	500 Cr(VI)	30,000	1,200	120	1,200	60,000	4		400									600		1			
HSL A & B - Low to high density residential Soil texture classification – SAND		Source depths (0 m to <1 m. BGL)											3	0.5	160	55	40	45	110					0.01 / 0.001		
		Source depths (1 m to <2 m. BGL)											NL	0.5	220	NL	60	70	240							
		Source depths (2 m to <4 m. BGL)											NL	0.5	310	NL	95	110	440							
		Source depths (4 m + BGL)											NL	0.5	510	NL	170	200	NL							
EILs / ESLs - Urban residential and public open space ^{1 2}		100		550	120	1,100		170	520		0.7		170	50	85	70	105	180	120	300	2,800					
Management Limits Comercial / Industrial ¹																		700	1,000	3,500	10,000					

Notes:		Highlighted values exceed HIL / HSL
		Highlighted values exceed EIL / ESL
		Concentration exceeds highlighted criteria

Results are recorded in mg/kg

HIL D	NEPC 1999 Amendment 2013 'HIL D' - Health based commercial / industrial settings.
HSL D	NEPC 1999 Amendment 2013 'HSL D' Health Based Screening Levels applicable for vapour intrusion values applicable for commercial / industrial settings.
NA	Not Analysed
NL	Not Limiting' If the derived soil vapour limit exceeds the soil concentration at which the pore water phase cannot dissolve any more of the individual chemical
1	Coarse grained soil assessment criteria values were applied.
2	Ecological criteria calculated based on physical properties reported in Ei Geotechnical Investigation, 2022 and the eSPADE portal (DPIE, 2020)
F1	To obtain F1 subtract the sum of BTEX concentrations from the C6-C10 fraction.
F2	To obtain F2 subtract naphthalene from the >C10-C16 fraction.
F3	(>C16-C34)
F4	(>C34-C40)

Appendix C -Proposed Development Plans



TonkinZulaikhaGreer

Verona, Paddington

13 - 17 Oxford Street, and 2 Verona Street

SSDA Architectural Drawings

DATE	REV	DESCRIPTION
17/11/2025	-	For SSDA

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Landscape Architect Wyer & Co	Geotech EI Australia
Structure Northrop	BCA + Access Jensen Hughes
Building Services O&S Consulting	Traffic JMT Consulting
Basix + ESD Credwell	Waste Elephants Foot
Acoustic E-Lab	Fire E-Lab

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Project Verona, Paddington	
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Job No. 24026	
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Drawing Title COVER PAGE	
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Drawing No. A 000	Rev No. -
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Drawn MG, AM, IR, CY, WR	Date 17/11/2025
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Checked TG	
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Nominated Architects Peter Tonkin NSW Registration 4147 Tim Greer NSW Registration 5603	
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DRAWING LIST			
		Scale @ A3	REV
A 000 GENERAL INFORMATION			
A 000	COVER PAGE		-
A 001	DRAWING LIST AND LEGEND		-
A 002	SITE PLAN		-
A 003	SITE ANALYSIS		-
A 050 DEMOLITION AND EXCAVATION PLANS			
A 050	EXCAVATION AND DEMOLITION PLAN - BASEMENT 3	1:200	-
A 051	EXCAVATION AND DEMOLITION PLAN - BASEMENT 1	1:200	-
A 052	EXCAVATION AND DEMOLITION PLAN - GROUND FLOOR	1:200	-
A 053	DEMOLITION PLAN - LEVEL 1	1:200	-
A 060 DEMOLITION ELEVATION AND SECTION			
A 060	DEMOLITION ELEVATION AND SECTION - OXFORD STREET	1:200	-
A 061	DEMOLITION ELEVATION AND SECTION - VERONA STREET	1:200	-
A 100 GENERAL ARRANGEMENT PLANS			
A 100	BASEMENT 3 PLAN	1:200	-
A 101	BASEMENT 2 PLAN	1:200	-
A 102	BASEMENT 1 PLAN	1:200	-
A 103	GROUND FLOOR PLAN	1:200	-
A 104	TERRACES GROUND FLOOR PLAN	1:200	-
A 105	LEVEL 1 FLOOR PLAN	1:200	-
A 106	LEVEL 2 FLOOR PLAN	1:200	-
A 107	LEVEL 3 FLOOR PLAN	1:200	-
A 108	LEVEL 4 FLOOR PLAN	1:200	-
A 109	LEVEL 5 FLOOR PLAN	1:200	-
A 110	LEVEL 6 FLOOR PLAN	1:200	-
A 111	LEVEL 7 ROOFTOP FLOOR PLAN	1:200	-
A 200 ELEVATIONS AND SECTIONS			
A 200	NORTH ELEVATION - OXFORD STREET	1:200	-
A 201	SOUTH ELEVATION - MARSHALL STREET	1:200	-
A 202	EAST ELEVATION - VERONA STREET	1:200	-
A 203	WEST ELEVATION	1:200	-
A 204	NORTH ELEVATION AND SECTION - TERRACES	1:200	-
A 205	SOUTH ELEVATION AND SECTION - COURTYARD	1:200	-
A 206	WEST ELEVATION AND SECTION - COURTYARD	1:200	-

		Scale @ A3	REV
A 400 SHADOW DIAGRAMS AND EYE OF THE SUN			
A 400	SOLAR ACCESS IMPACTED PROPERTIES DIAGRAM	1:500	-
A 401	SHADOW DIAGRAMS 21st JUNE - 0900 AND 1000	1:1000	-
A 402	SHADOW DIAGRAMS 21st JUNE - 1030 AND 1100	1:1000	-
A 403	SHADOW DIAGRAMS 21st JUNE - 1130 AND 1200	1:1000	-
A 404	SHADOW DIAGRAMS 21st JUNE - 1230 AND 1300	1:1000	-
A 405	SHADOW DIAGRAMS 21st JUNE - 1330 AND 1400	1:1000	-
A 406	SHADOW DIAGRAMS 21st JUNE - 1500	1:1000	-
A 407	EYE OF THE SUN DIAGRAMS - 1		-
A 408	EYE OF THE SUN DIAGRAMS - 2		-
A 409	EYE OF THE SUN DIAGRAMS - 3		-
A 410	EYE OF THE SUN DIAGRAMS - 4		-
A 411	EYE OF THE SUN DIAGRAMS - 5		-
A 500 AREA CALCULATIONS			
A 500	GFA DIAGRAMS	1:1000	-
A 550 COMPLIANCE DIAGRAMS			
A 550	ADAPTABLE APARTMENT PLANS - 2 BED	1:100	-
A 551	ADAPTABLE APARTMENT PLANS - 3 BED	1:100	-
A 552	HEIGHT PLANE DIAGRAMS		-
A 553	OPEN SPACE DIAGRAMS	1:1000	-
A 554	SOLAR ACCESS DIAGRAMS - 1	1:500	-
A 555	SOLAR ACCESS DIAGRAMS - 2	1:500	-
A 556	CROSS VENTILATION DIAGRAMS - 1	1:500	-
A 557	CROSS VENTILATION DIAGRAMS - 2	1:500	-
A 558	ADG COMPLIANCE TABLE 1		-
A 559	ADG COMPLIANCE TABLE 2		-
A 600 MATERIALS			
A 600	MATERIALS AND FINISHES SCHEDULE		-
A 700 PERSPECTIVE IMAGES			
A 700	PERSPECTIVE 01		-
A 701	PERSPECTIVE 02		-

LEGEND	
Legend Code	Legend Description
BATT	Battens, Timber
BGL	Balustrade, Glass
BR1	Brickwork1
BR2	Brickwork2
BRA	Brass
C/L	Centre-Line
CCF	Coloured Concrete Finish
CM	Cladding, Metal
CO	Concrete
COMMS	Communications Cupboard
COS	Confirm on Site
ELEC	Electrical Cupboard
FC	Fibre-Cement
FCL	Finished Ceiling Level
FFL	Finished Floor Level
FN	Fence
GLL	Glass Louvres

Legend Code	Legend Description
MECH	Mechanical
ML	Metal Louvres
MW	Metal Window
PCO	Pavers, Concrete
PST	Pavers, Stone
PV	Photovoltaics, Solar
RL	Reduced Level
RSC	Roof Sheet, Copper
RSM	Roof Sheet, Metal
SSL	Structural Slab Level
TL1	Pool Tiles
TL2	Wall Tiles
TOH	Top of Hob
TOW	Top of Wall
U/S	Underside

DATE	REV	DESCRIPTION
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Landscape Architect Wyer & Co	Geotech EI Australia
Structure Northop	BCA + Access Jensen Hughes
Building Services O&S Consulting	Traffic JMT Consulting
Basix + ESD Credwell	Waste Elephants Foot
Acoustic E-Lab	Fire E-Lab

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Project Verona, Paddington	
Phase SSDA	
Job No. 24026	

Drawing Title DRAWING LIST AND LEGEND	
Drawing No. A 001	Rev No. -
Drawn MG, AM, IR, CY, WR	Date 17/11/2025
Checked TG	
Nominated Architects Peter Tonkin NSW Registration 4147 Tim Greer NSW Registration 5603	



DATE	REV	DESCRIPTION
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Phase SSDA	
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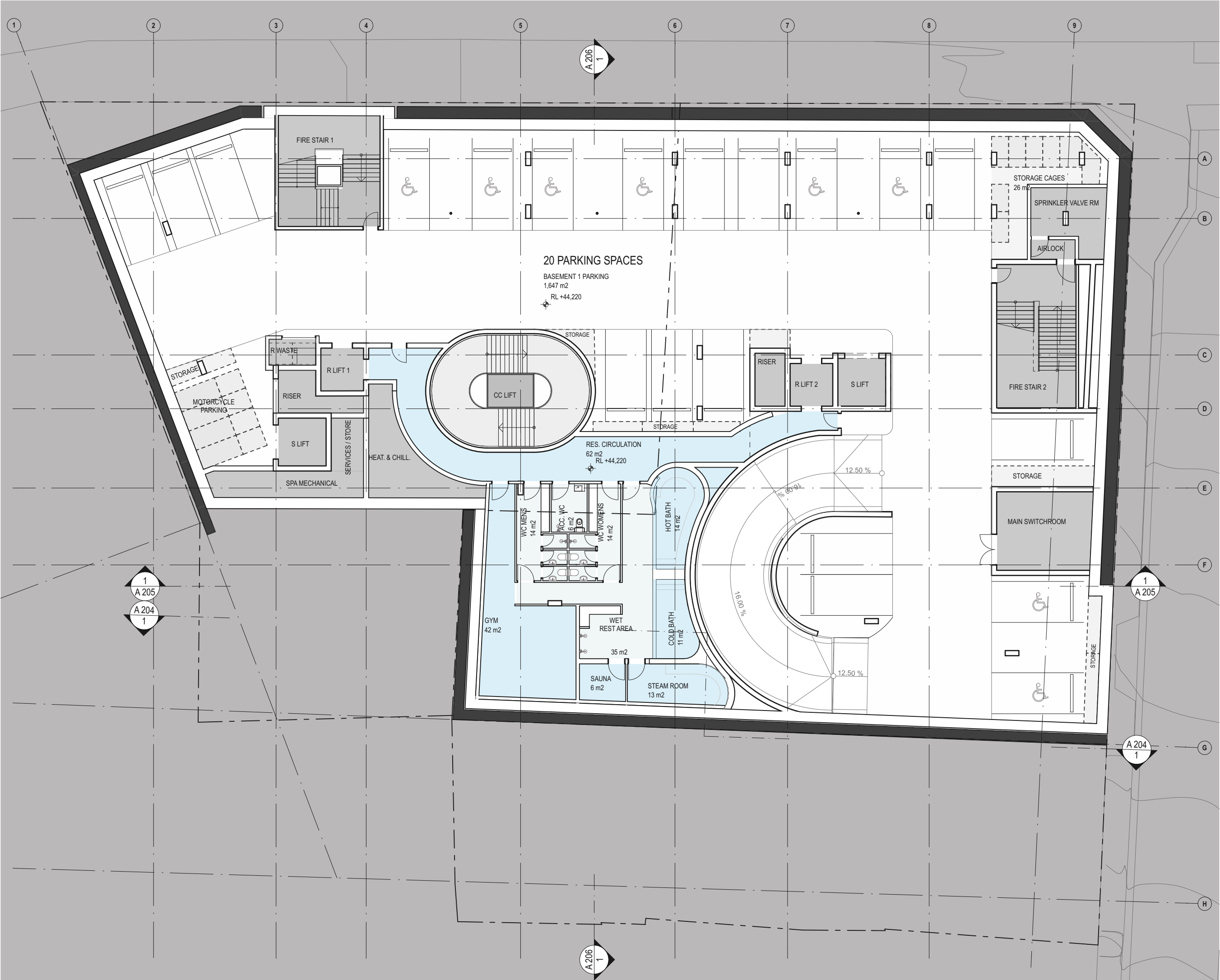
Job No. 24026	
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Drawing Title SITE PLAN	
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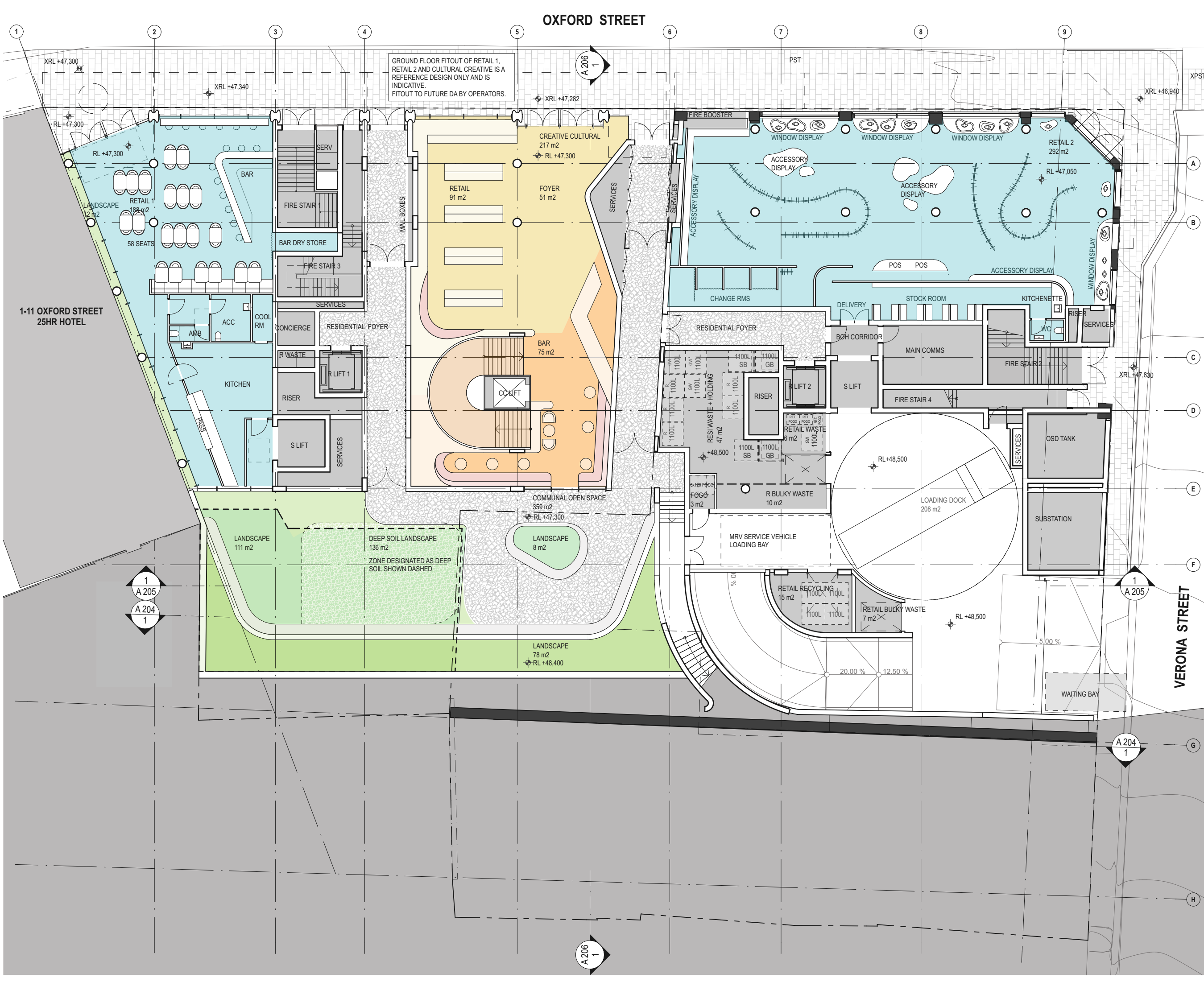
Drawing No. A 002	Rev No. -
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Drawn MG, AM, IR, CY, WR	Date 17/11/2025
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17/11/2025	-	For SSDA
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Landscape Architect Wyer & Co	Geotech EI Australia	
Structure Northop	BCA + Access Jensen Hughes	
Building Services O&S Consulting	Traffic JMT Consulting	
Basix + ESD Credwell	Waste Elephants Foot	
Acoustic E-Lab	Fire E-Lab	
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Suite 5A, 2 New Mcleay St Edgecliff, NSW 2027 Australia	T 02 9331 4000 E -	
Project Verona, Paddington		
Phase SSDA		
Job No. 24026		
Drawing Title BASEMENT 1 PLAN		
Drawing No. A 102	Rev No. -	
Drawn MG, AM, IR, CY, WR	Date 17/11/2025	
Checked TG		
Scale 0 2 4 8 m @A3	1:200@A3	
		
Nominated Architects Peter Tonkin NSW Registration 4147 Tim Greer NSW Registration 5603		



DATE	REV	DESCRIPTION
17/11/2025	-	For SSDA

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Structure Northop	BCA + Access Jensen Hughes
Building Services O&S Consulting	Traffic JMT Consulting
Basix + ESD Credwell	Waste Elephants Foot
Acoustic E-Lab	Fire E-Lab

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Phase
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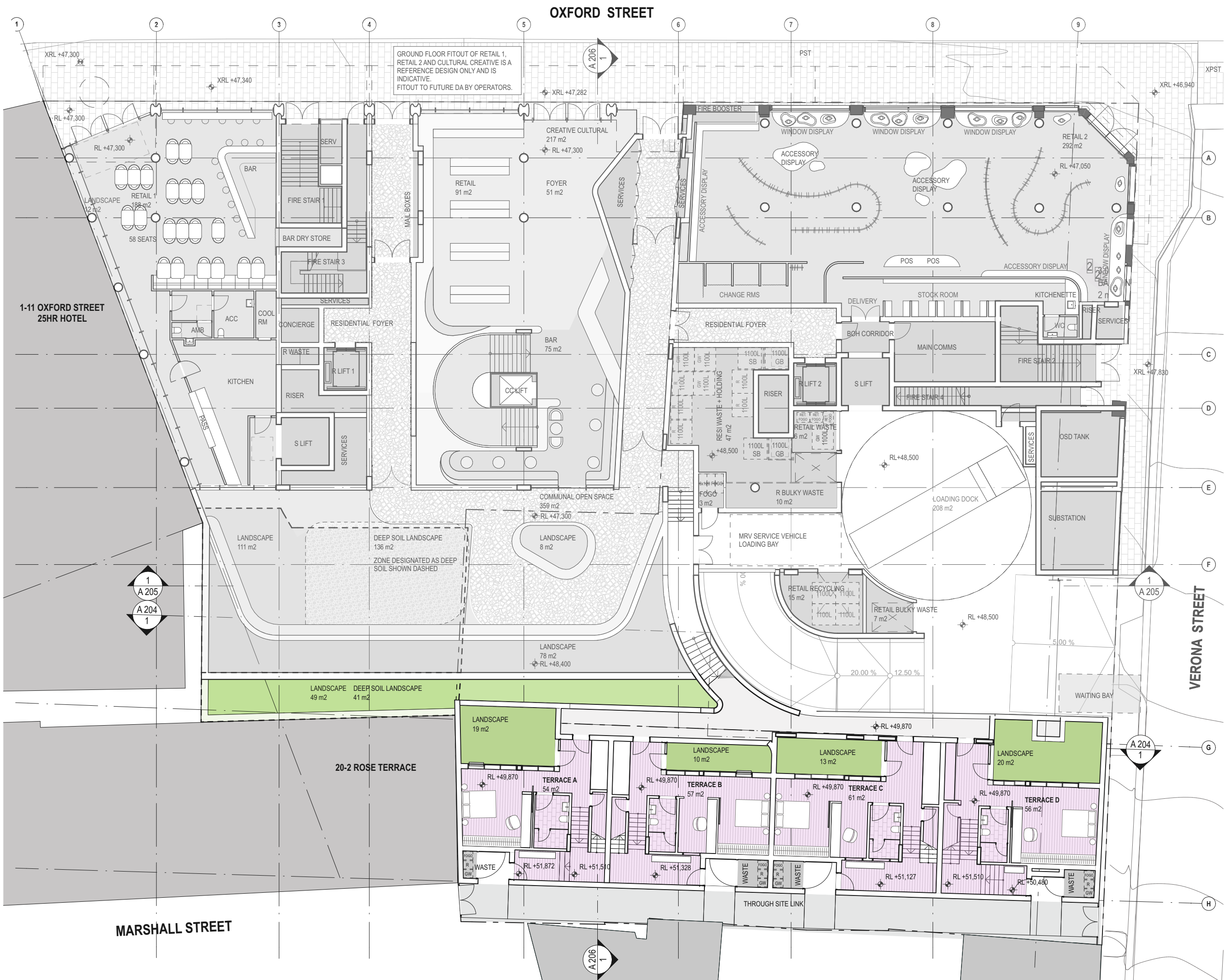
Job No.
24026

Drawing Title
GROUND FLOOR PLAN

Drawing No. A 103	Rev No. -
Drawn MG, AM, IR, CY, WR	Date 17/11/2025
Checked TG	

Scale
0 2 4 8 m @A3
1:200@A3

Nominated Architects
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Tim Greer NSW Registration 5603



DATE	REV	DESCRIPTION
17/11/2025	-	For SSDA

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Landscape Architect Wyer & Co	Geotech EI Australia
Structure Northop	BCA + Access Jensen Hughes
Building Services O&S Consulting	Traffic JMT Consulting
Basix + ESD Credwell	Waste Elephants Foot
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Job No.
24026

Drawing Title
TERRACES GROUND FLOOR PLAN

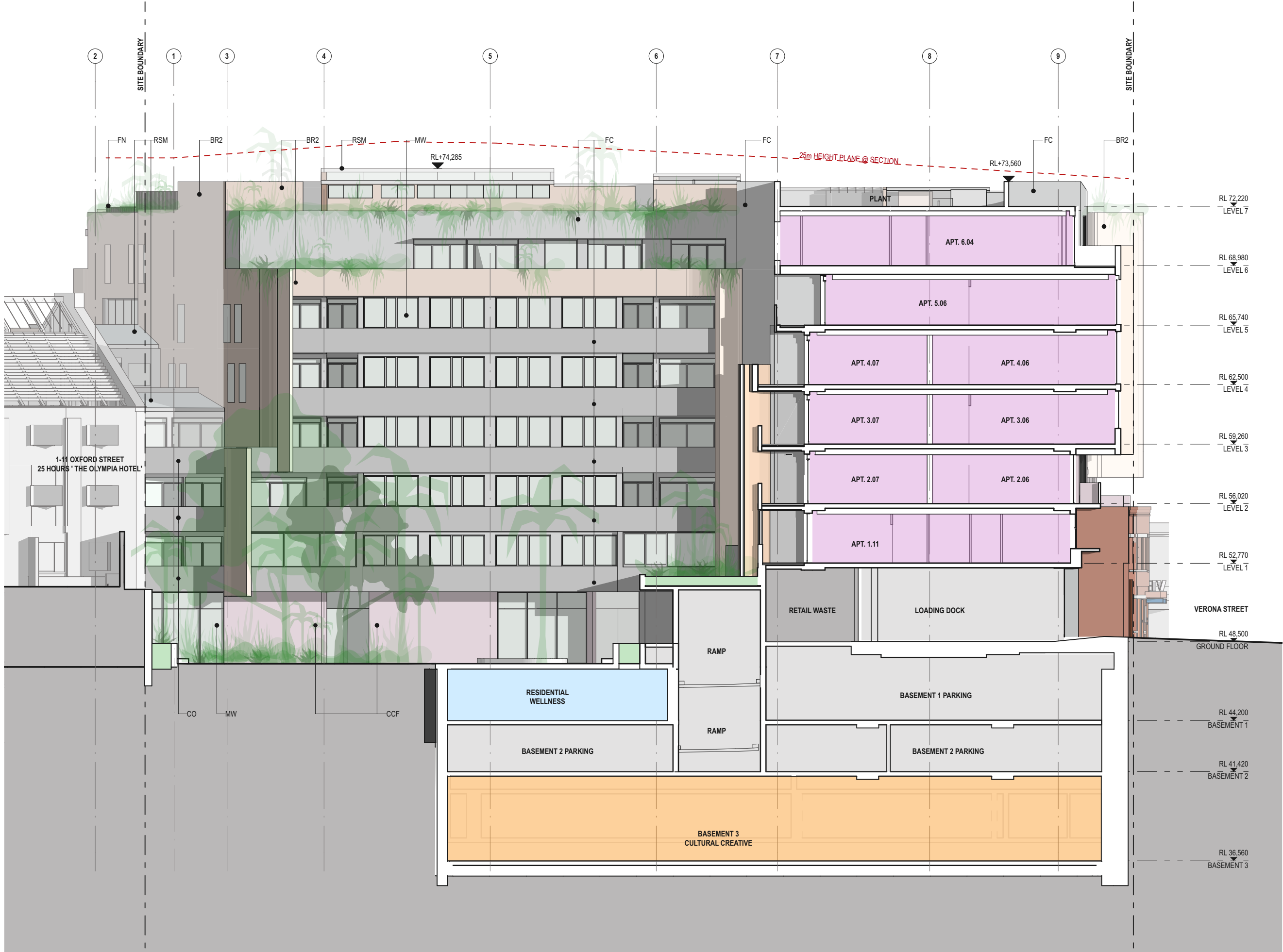
Drawing No.
A 104

Drawn
MG, AM, IR, CY, WR

Checked
TG



Nominated Architects
Peter Tonkin NSW Registration 4147
Tim Greer NSW Registration 5603



DATE	REV	DESCRIPTION
17/11/2025	-	For SSDA

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Landscape Architect Wyer & Co	Geotech EI Australia
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Building Services O&S Consulting	Traffic JMT Consulting
Basix + ESD Credwell	Waste Elephants Foot
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Job No.
24026

Drawing Title
**SOUTH ELEVATION AND SECTION -
COURTYARD**

Drawing No.
A 205

Drawn
MG, AM, IR, CY, WR

Checked
TG

Scale
0 2 4 8 m @A3
1:200@A3

Nominated Architects
Peter Tonkin NSW Registration 4147
Tim Greer NSW Registration 5603



DATE	REV	DESCRIPTION
17/11/2025	-	For SSDA

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Landscape Architect Wyer & Co	Geotech EI Australia
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Suite 5A, 2 New Mcleay St Edgecliff, NSW 2027 Australia	T 02 9331 4000 E -

Project Verona, Paddington	
Phase SSDA	
Job No. 24026	

Drawing Title PERSPECTIVE 01	
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Drawing No. A 700	Rev No. -
Drawn MG, AM, IR, CY, WR	Date 17/11/2025
Checked TG	

Nominated Architects
Peter Tonkin NSW Registration 4147
Tim Greer NSW Registration 5603



DATE	REV	DESCRIPTION
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Landscape Architect Wyer & Co	Geotech EI Australia
Structure Northop	BCA + Access Jensen Hughes
Building Services O&S Consulting	Traffic JMT Consulting
Basix + ESD Credwell	Waste Elephants Foot
Acoustic E-Lab	Fire E-Lab

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Project Verona, Paddington	
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Phase SSDA	
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Job No. 24026	
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Drawing Title PERSPECTIVE 02	
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Drawing No. A 701	Rev No. -
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Drawn MG, AM, IR, CY, WR	Date 17/11/2025
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Checked TG	
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Nominated Architects
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Tim Greer NSW Registration 5603

Appendix D -Site Photographs



Photograph 1: Front view of 2 Verona Street (8/9/25).



Photograph 2: Front view of 13-15 Oxford Street (8/9/25)



Photograph 3: View from 13-15 Oxford Street, facing north-west towards Oxford Street (8/9/25)



Photograph 4: View within basement 1 carpark of 13-15 Oxford Street, facing south-east (8/9/25).



Photograph 5: View of basement 2 carpark 13-15 Oxford Street, facing west (8/9/25)



Photograph 6: Representative soil material within BH202 (8/9/25) .

Appendix E -Borehole Logs

BOREHOLE LOG BH ID: BH202										
Location13-15 Oxford Strreet & 2 Verona Street, Paddington NSW					Started08 September 2025					
ClientWT Malouf Pty Ltd					Completed08 September 2025					
Job No.E25559.E02					Logged ByMC		Date08 September 2025			
Sheets1 of 1					Review By		Date			
Drilling Contractor-					Surface RL≈44.00 m (AHD)		Latitude-			
Plant-					Inclination90°		Longitude-			
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
HA	GWNE	BH202_0.2-0.3 PID = 0.10 PPM		0.00		44.00	CONCRETE: 150mm thick	W		CONCRETE
		BH202_0.5-0.6 PID = 0.20 PPM		0.15		43.85	GRAVEL: coarse grained, subangular to angular, dark grey, no odour			RESIDUAL SOIL
				0.30		43.70	SAND: medium to coarse grained, orange brown mottled red, with sandstone fragments			
						43.40	Terminated at 0.60m. Refusal on sandstone bedrock.			
				1						
				2						
				3						
				4						
				5						

BOREHOLE LOG BH ID: BH203										
Location13-15 Oxford Strreet & 2 Verona Street, Paddington NSW					Started08 September 2025					
ClientWT Malouf Pty Ltd					Completed08 September 2025					
Job No.E25559.E02					Logged ByMC		Date08 September 2025			
Sheets1 of 1					Review By		Date			
Drilling Contractor-					Surface RL≈43.50 m (AHD)		Latitude-			
Plant-					Inclination90°		Longitude-			
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	GWNE	BH203_0.2-0.3 PID = 0.20 PPM BH203_0.3-0.4 PID = 0.70 PPM		0.00		43.50	CONCRETE: 150mm thick	W		CONCRETE
				0.15		43.35	GRAVEL: coarse grained, subangular to angular, dark grey, no odour			
				0.30		43.20	SAND: medium to coarse grained, orange brown mottled red, with sandstone fragments			RESIDUAL SOIL
				43.10		43.10	SAND: medium to coarse grained, orange brown mottled red, with sandstone fragments Terminated at 0.40m. Refusal on sandstone bedrock.			
				1						
				2						
				3						
				4						
				5						

BOREHOLE LOG BH ID: BH204										
Location13-15 Oxford Strreet & 2 Verona Street, Paddington NSW					Started08 September 2025					
ClientWT Malouf Pty Ltd					Completed08 September 2025					
Job No.E25559.E02					Logged ByMC		Date08 September 2025			
Sheets1 of 1					Review By		Date			
Drilling Contractor-					Surface RL≈43.50 m (AHD)		Latitude-			
Plant-					Inclination90°		Longitude-			
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	GWNE	BH204_0.15-0.2 PID = 0.40 PPM		0.00		43.50	CONCRETE: 150mm thick	W		CONCRETE
		0.15		43.35	GRAVEL: coarse grained, subangular to angular, dark grey, no odour	RESIDUAL SOIL				
		0.25		43.25	SAND: medium to coarse grained, orange brown mottled red, with sandstone fragments					
		BH204_0.5-0.6 PID = 0.10 PPM				42.90	Terminated at 0.60m. Refusal on sandstone bedrock.			
				1						
				2						
				3						
				4						
				5						

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

BOREHOLE LOG BH ID: BH205										
Location13-15 Oxford Strreet & 2 Verona Street, Paddington NSW ClientWT Malouf Pty Ltd Job No.E25559.E02 Sheets1 of 1					Started08 September 2025 Completed08 September 2025 Logged ByMCDate08 September 2025 Review ByDate					
Drilling Contractor- Plant-					Surface RL≈43.90 m (AHD) Inclination90° Latitude- Longitude-					
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	GWNE	BH205_0.2-0.3 PID = 0.60 PPM		0.00		43.90	CONCRETE: 150mm thick	W		CONCRETE
		BH205_0.4-0.5 PID = 0.50 PPM		0.15		43.75	GRAVEL: coarse grained, subangular to angular, dark grey, no odour			RESIDUAL SOIL
				0.30		43.60	SAND: medium to coarse grained, orange brown mottled red, with sandstone fragments			
						43.35	Terminated at 0.55m. Refusal on sandstone bedrock.			
				1						
				2						
				3						
				4						
				5						

BOREHOLE LOG BH ID: BH206										
Location13-15 Oxford Strreet & 2 Verona Street, Paddington NSW					Started08 September 2025					
ClientWT Malouf Pty Ltd					Completed08 September 2025					
Job No.E25559.E02					Logged ByMC		Date08 September 2025			
Sheets1 of 1					Review By		Date			
Drilling Contractor-					Surface RL≈44.00 m (AHD)		Latitude-			
Plant-					Inclination90°		Longitude-			
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	GWNE	BH206_0.15-0.2 PID = 0.90 PPM		0.00		44.00	CONCRETE: 150mm thick	W		CONCRETE
		BH206_0.3-0.4 PID = 1.20 PPM		0.15		43.85	GRAVEL: coarse grained, subangular to angular, dark grey, no odour			RESIDUAL SOIL
				0.20		43.80	SAND: medium to coarse grained, orange brown mottled red, with sandstone fragments			
						43.60	Terminated at 0.40m. Refusal on sandstone bedrock.			
				1						
				2						
				3						
				4						
				5						

BOREHOLE LOG BH ID: BH207										
Location13-15 Oxford Strreet & 2 Verona Street, Paddington NSW ClientWT Malouf Pty Ltd Job No.E25559.E02 Sheets1 of 1					Started08 September 2025 Completed08 September 2025 Logged ByMC Date08 September 2025 Review By Date					
Drilling Contractor- Plant-					Surface RL≈43.50 m (AHD) Inclination90° Latitude- Longitude-					
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	GWNE	BH207_0.2-0.3 PID = 0.30 PPM		0.00		43.50	CONCRETE: 200mm thick	W		CONCRETE
				0.20		43.30	GRAVEL: coarse grained, subangular to angular, dark grey, no odour			
							42.90	Terminated at 0.60m. Refusal on gravels.		
				1						
				2						
				3						
				4						
				5						

BOREHOLE LOG BH ID: BH209										
Location13-15 Oxford Strreet & 2 Verona Street, Paddington NSW					Started08 September 2025					
ClientWT Malouf Pty Ltd					Completed08 September 2025					
Job No.E25559.E02					Logged ByMC		Date08 September 2025			
Sheets1 of 1					Review By		Date			
Drilling Contractor-					Surface RL≈43.90 m (AHD)		Latitude-			
Plant-					Inclination90°		Longitude-			
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	GWNE	BH209_0.2-0.3 PID = 0.30 PPM		0.00		43.90	CONCRETE: 150mm thick	W		CONCRETE
		0.15		43.75	GRAVEL: coarse grained, subangular to angular, dark grey, no odour	RESIDUAL SOIL				
		0.30		43.60	SAND: medium to coarse grained, orange brown mottled red, with sandstone fragments					
		BH209_0.8-0.9 PID = 0.10 PPM				43.00	Terminated at 0.90m. Refusal on sandstone bedrock.			
				1						
				2						
				3						
				4						
				5						



BOREHOLE LOG

BH ID: BH101M

Location	17 Oxford Street			Started	28 July 2023	
Client	Verona Co Pty Ltd.			Completed	28 July 2023	
Job No.	E25559			Logged By	AL	Date 28 July 2023
Sheets	1 of 1			Review By		Date
Drilling Contractor	Geosense			Surface RL	≈50.22 m (AHD)	
Plant	GEO205 drill			Inclination	90°	
				Latitude	-	
				Longitude	-	

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	GWNE	BH101M_0.3-0.4 PID = 1.3 PPM	0.27	0.00	0.27	50.22	Concrete Slab:			CONCRETE
		BH101M_0.8-0.9 PID = 1.1 PPM		0.27		49.95	FILL: SAND: Fine Grained plasticity, Brown to yellow with builders plastic and concrete, dry, no odour			FILL
		BH101M_1.3-1.4 PID = 0.4 PPM	1.20	1.20		49.02	SAND: Fine Grained plasticity, Yellow, dry, no odour			RESIDUAL SOIL
WB				5.70		44.52	Bedrock: weathered sandstone			BEDROCK
				9.00		41.22	Terminated at 9.00m. Target Depth Reached.			
				10.00						

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



MONITORING WELL LOG

BH ID: BH101M

Location	17 Oxford Street	Started	28 July 2023		
Client	Verona Co Pty Ltd.	Completed	28 July 2023		
Job No.	E25559	Logged By	AL	Date	28 July 2023
Sheets	1 of 1	Review By		Date	
Drilling Contractor	Geosense	Surface RL	≈50.22 m (AHD)	Latitude	-
Plant	GEO205 drill	Inclination	90°	Longitude	-

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
GWNE	BH101M_0.3-0.4 PID = 1.3 PPM	0.00		50.22	Concrete Slab:		Steel Cover at Surface	Well Stickup = -0.05m (RL 50.17m)
	BH101M_0.8-0.9 PID = 1.1 PPM	0.27		49.95	FILL: SAND: Fine Grained plasticity, Brown to yellow with builders plastic and concrete, dry, no odour			
	BH101M_1.3-1.4 PID = 0.4 PPM	1.20		49.02	SAND: Fine Grained plasticity, Yellow, dry, no odour			
		2					Grout 0.00m - 5.00m	
		3						0.05m - 6.0m PVC casing (50mm Ø)
		4						
		5					Bentonite 5.00m - 5.50m	
		5.70		44.52	Bedrock: weathered sandstone			
		6						
		7					Sand 5.50m - 9.00m	6.0m - 9.0m PVC screen (50mm Ø)
		9		41.22	Terminated at 9.00m. Target Depth Reached.			
		10						

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



BOREHOLE LOG

BH ID: BH102

Location	17 Oxford Street	Started	28 July 2023		
Client	Verona Co Pty Ltd.	Completed	28 July 2023		
Job No.	E25559	Logged By	AL	Date	28 July 2023
Sheets	1 of 1	Review By		Date	
Drilling Contractor	Geosense	Surface RL	≈50.22 m (AHD)	Latitude	-
Plant	GEO205 drill	Inclination	90°	Longitude	-

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	GWNE	BH102_0.3-0.4 PID = 1.7 PPM		0.00		50.22	Concrete Slab:			CONCRETE
				0.27		49.95	FILL: SAND: Fine Grained plasticity, Brown to yellow with builders plastic and concrete, dry, no odour			FILL
		BH102_0.8-0.9 PID = 1.2 PPM		0.50		49.72	SAND: Fine Grained plasticity, Yellow, dry, no odour			RESIDUAL SOIL
				1						
						48.72	Terminated at 1.50m. Target Depth Reached.			
				2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

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



BOREHOLE LOG

BH ID: BH103

Location	17 Oxford Street			Started	28 July 2023	
Client	Verona Co Pty Ltd.			Completed	28 July 2023	
Job No.	E25559			Logged By	AL	Date 28 July 2023
Sheets	1 of 1			Review By		Date
Drilling Contractor	Geosense			Surface RL	≈50.22 m (AHD)	
Plant	GEO205 drill			Inclination	90°	
				Latitude	-	
				Longitude	-	

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	GWNE	BH103_0.3-0.4 PID = 2.1 PPM		0.00		50.22	Concrete Slab:			CONCRETE
				0.27		49.95	FILL: SAND: Fine Grained plasticity, Brown to yellow with builders plastic and concrete, dry, no odour			FILL
		BH103_0.8-0.9 PID = 2 PPM		1						
		BH103_1.3-1.4 PID = 2.3 PPM		2						
		BH103_1.8-1.9 PID = 1.9 PPM		3						
		BH103_2.3-2.4 PID = 1.8 PPM		3.60		46.62	SAND: Fine Grained plasticity, Yellow, dry, no odour			RESIDUAL SOIL
		BH103_3.3-3.4 PID = 0.7 PPM		4		46.22	Terminated at 4.00m. Target Depth Reached.			
		BH103_3.8-3.9 PID = 1.1 PPM		5						
				6						
				7						
				8						
				9						
				10						

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



BOREHOLE LOG

BH ID: BH104

Location	17 Oxford Street	Started	28 July 2023	
Client	Verona Co Pty Ltd.	Completed	28 July 2023	
Job No.	E25559	Logged By	AL	Date 28 July 2023
Sheets	1 of 1	Review By		Date
Drilling Contractor	Geosense	Surface RL	≈50.22 m (AHD)	Latitude -
Plant	GEO205 drill	Inclination	90°	Longitude -

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	GWNE	BH104_0.3-0.4 PID = 3.8 PPM	0.27	0.00	0.27	50.22	Concrete Slab:			CONCRETE
		BH104_0.8-0.9 PID = 3.6 PPM		0.27	0.87	49.95	FILL: SAND: Fine Grained plasticity, Brown to yellow with builders plastic and concrete, dry, no odour			FILL
		BH104_1.3-1.4 PID = 3.7 PPM		1.00	1.30					
		BH104_1.8-1.9 PID = 3.3 PPM		2.00	1.80					
		BH104_2.3-2.4 PID = 2.1 PPM		3.00	2.30					
		BH104_2.8-2.9 PID = 1.4 PPM		3.00	2.80	47.22	SAND: Fine Grained plasticity, Yellow, dry, no odour			RESIDUAL SOIL
		BH104_3.3-3.4 PID = 1.2 PPM		3.50	3.30	46.72	Terminated at 3.50m. Target Depth Reached.			
				4.00						
				5.00						
				6.00						
				7.00						
				8.00						
				9.00						
				10.00						

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



BOREHOLE LOG

BH ID: BH105

Location	17 Oxford Street	Started	28 July 2023
Client	Verona Co Pty Ltd.	Completed	28 July 2023
Job No.	E25559	Logged By	AL
Sheets	1 of 1	Review By	
		Date	28 July 2023

Drilling Contractor	Geosense	Surface RL	≈50.22 m (AHD)	Latitude	-
Plant	GEO205 drill	Inclination	90°	Longitude	-

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	GWNE	BH105_0.3-0.4 PID = 4.1 PPM	0.27	0.00	0.27	50.22	Concrete Slab:			CONCRETE
		BH105_0.8-0.9 PID = 3.7 PPM		0.27	0.87	49.95	FILL: SAND: Fine Grained plasticity, Brown to yellow with builders plastic and concrete, dry, no odour			FILL
		BH105_1.3-1.4 PID = 4.2 PPM		1.00	1.30					
		BH105_1.8-1.9 PID = 3.2 PPM		2.00	1.80					
		BH105_2.3-2.4 PID = 3.1 PPM		3.00	2.30					
		BH105_2.8-2.9 PID = 1.1 PPM		3.00	2.80	47.22	SAND: Fine Grained plasticity, Yellow, dry, no odour			RESIDUAL SOIL
		BH105_3.3-3.4 PID = 0.6 PPM		3.00	3.40	46.72	Terminated at 3.50m. Target Depth Reached.			
				4.00						
				5.00						
				6.00						
				7.00						
				8.00						
				9.00						
				10.00						

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



BOREHOLE LOG

BH ID: BH106

Location	17 Oxford Street	Started	28 July 2023
Client	Verona Co Pty Ltd.	Completed	28 July 2023
Job No.	E25559	Logged By	AL
Sheets	1 of 1	Date	28 July 2023
Drilling Contractor	Geosense	Review By	Date

Surface RL	≈50.22 m (AHD)	Latitude	-
Inclination	90°	Longitude	-

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
HA	GWNE	BH106_0.3-0.4 PID = 3.3 PPM		0.00		50.22	Concrete Slab:			CONCRETE
				0.26		49.96	FILL: SAND: Fine Grained plasticity, Brown to yellow with builders plastic and concrete, dry, no odour			FILL
						49.82	Terminated at 0.40m. Unable to advance due to hole collapse.			
				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 LOG

BH ID: BH107

Location	17 Oxford Street	Started	28 July 2023
Client	Verona Co Pty Ltd.	Completed	28 July 2023
Job No.	E25559	Logged By	AL
Sheets	1 of 1	Date	28 July 2023
Drilling Contractor	Geosense	Review By	Date

Surface RL	≈50.22 m (AHD)	Latitude	-
Inclination	90°	Longitude	-

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
HA	GWNE	BH107_0.3-0.4 PID = 3.3 PPM		0.00		50.22	Concrete Slab:			CONCRETE
				0.26		49.96	FILL: SAND: Fine Grained plasticity, Brown to yellow with builders plastic and concrete, dry, no odour			FILL
		BH107_0.8-0.9 PID = 2.1 PPM		0.40		49.82	SAND: Fine Grained plasticity, Yellow, dry, no odour			RESIDUAL SOIL
				1		49.22	Terminated at 1.00m. Target Depth Reached.			
				2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

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



BOREHOLE LOG

BH ID: BH108

Location	17 Oxford Street	Started	28 July 2023
Client	Verona Co Pty Ltd.	Completed	28 July 2023
Job No.	E25559	Logged By	AL
Sheets	1 of 1	Date	28 July 2023
Drilling Contractor	Geosense	Review By	Date

Plant	GEO205 drill	Surface RL	-	Latitude	-
		Inclination	90°	Longitude	-

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
HA	GWNE	BH108_0.3-0.4 PID = 4.1 PPM		0.00			Concrete Slab:			CONCRETE
				0.27			FILL: SAND: Fine Grained plasticity, Brown to yellow with builders plastic and concrete, dry, no odour Terminated at 0.40m. Unable to advance due to hole collapse.			FILL
				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 LOG

BH ID: BH201M

Location	13-15, Oxford Street and 2 Verona Street Paddington NSW			Started	09 September 2025	
Client	Aspire Property Consulting			Completed	10 September 2025	
Job No.	E25559.G04			Logged By	S2	Date 09 September 2025
Sheets	1 of 3			Review By	SK	Date
Drilling Contractor	STS Geotechnics		Surface RL	≈50.10 m (AHD)	Northing	6250678.9 (MGA 2020 Zone 56)
Plant	Christie		Inclination	90°	Easting	332768.0 (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
DT				0.00		50.10	CONCRETE: 200mm thick	-	-		CONCRETE
		BH201M_0.40-0.50		0.20		49.90	SAND: fine to medium grained, pale brown				MARINE SOIL
		BH201M_0.80-1.00		1					VL - L		
				2				D			
		BH201M_2.60-3.00		3					D - VD		
		BH201M_3.40-3.60		4							
		BH201M_3.50-3.70		5							
				6							
		BH201M_5.20-5.30		5.00		45.10	From 5.00m, red brown with clay nodules.	M			
				6							
				7							
				8							
				9							
				9.50		40.60	Sandy CLAY: low plasticity, pale grey	M > PL			RESIDUAL SOIL
				10							

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



BOREHOLE LOG

BH ID: BH201M

Location	13-15, Oxford Street and 2 Verona Street Paddington NSW			Started	09 September 2025	
Client	Aspire Property Consulting			Completed	10 September 2025	
Job No.	E25559.G04			Logged By	S2	Date 09 September 2025
Sheets	2 of 3			Review By	SK	Date
Drilling Contractor	STS Geotechnics		Surface RL	≈50.10 m (AHD)	Northing	6250678.9 (MGA 2020 Zone 56)
Plant	Christie		Inclination	90°	Easting	332768.0 (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
ADP				10.10		40.00	Sandy CLAY: low plasticity, pale grey Log continued on next page.	M > PL	-		RESIDUAL SOIL
				11							
				12							
				13							
				14							
				15							
				16							
				17							
				18							
				19							
				20							

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



BOREHOLE CORE LOG

BH ID: BH201M

Location	13-15, Oxford Street and 2 Verona Street Paddington NSW			Started	09 September 2025	
Client	Aspire Property Consulting			Completed	10 September 2025	
Job No.	E25559.G04			Logged By	S2	Date 09 September 2025
Sheets	3 of 3			Review By	SK	Date
Drilling Contractor	STS Geotechnics			Surface RL	≈50.10 m (AHD)	
Plant	Christie			Inclination	90°	
				Northing	6250678.9 (MGA 2020 Zone 56)	
				Easting	332768.0 (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
									VL 0-1 L 0-3 M 1 H 3 VH 10 EH		30 100 300 1000 3000
NMLC	30%			10			<i>Log continued from previous page.</i>	---			
				10.23		39.87	NO CORE: 130mm thick	---		10.23-10.25: CS	
		91	81				SANDSTONE: fine to medium grained, with dark grey laminate, thinly bedded.			10.28-10.33: CS	
				11				FR		10.38-10.42: CS	
										10.52-10.56: CS	
				11						11.03-11.06: XWS	
		76	46							11.62-11.85: XWZ	
				12						12.06: JT 80° RO Fe SN	
										12.68-12.73: XWS	
				12.73		37.37	NO CORE: 370mm thick	---			
				13						13.20-13.79: XWZ	
		46	0			37.00	SANDSTONE: fine to medium grained, with dark grey laminate, thinly bedded.	FR			
				13.10							
						36.31	NO CORE: 810mm thick	---			
		46	0							14.60-15.00: XWZ	
		100	0			35.50	SANDSTONE: fine to medium grained, with extremely weathered bands and dark grey laminate, thinly bedded.	FR			
				14.60							
						35.10	NO CORE: 200mm thick	---			
		80	25			34.90	SANDSTONE: fine to medium grained, with extremely weathered bands and dark grey and brown laminate, thinly bedded.	FR		15.40: JT 30° PR RO Fe SN	
				15.00						15.62: JT 50-60° PR RO Fe SN	
										15.77-16.00: XWZ	
				15.20							
		48	10			34.10	NO CORE: 520mm thick	---			
				16.00							
						33.58	SANDSTONE: fine to medium grained, grey with dark grey laminate, thinly bedded.	FR		16.60-16.65: CS	
				16.52						16.77-16.80: XWS	
		100	100							16.95: JT 90° PR RO CN	
				17							
						32.30	Terminated at 17.80m. Target Depth Reached.			17.78: BP 5° PR SM In-filled	
				18							
				19							
				20							

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



MONITORING WELL LOG

BH ID: BH201M

Location	13-15, Oxford Street and 2 Verona Street Paddington NSW			Started	09 September 2025	
Client	Aspire Property Consulting			Completed	10 September 2025	
Job No.	E25559.G04			Logged By	S2	Date 09 September 2025
Sheets	1 of 2			Review By	SK	Date
Drilling Contractor	STS Geotechnics			Surface RL	≈50.10 m (AHD)	
Plant	Christie			Inclination	90°	
				Northing	6250678.9 (MGA 2020 Zone 56)	
				Easting	332768.0 (MGA 2020 Zone 56)	

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
		0.00		50.10	CONCRETE: 200mm thick	-		Well Stickup =0.0m (RL 50.10m)
	BH201M_0.40-0.50	0.20		49.90	SAND: fine to medium grained, pale brown		Grout 0.00m - 1.00m	
	BH201M_0.80-1.00	1				D		
		2						
	BH201M_2.60-3.00	3						
	BH201M_3.40-3.60	4				M		
	BH201M_3.50-3.70	5		45.10	From 5.00m, red brown with clay nodules.		Sand 1.00m - 8.50m	
	BH201M_5.20-5.30	6						0.0m - 11.10m PVC casing (50mm Ø)
		7						
		8				W		
		9					Bentonite 8.50m - 9.50m	
		9.50		40.60	Sandy CLAY: low plasticity, pale grey	M > PL		
		10						

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



MONITORING WELL LOG

BH ID: BH201M

Location	13-15, Oxford Street and 2 Verona Street Paddington NSW			Started	09 September 2025	
Client	Aspire Property Consulting			Completed	10 September 2025	
Job No.	E25559.G04			Logged By	S2	Date 09 September 2025
Sheets	2 of 2			Review By	SK	Date
Drilling Contractor	STS Geotechnics			Surface RL	≈50.10 m (AHD)	
Plant	Christie			Inclination	90°	
				Northing	6250678.9 (MGA 2020 Zone 56)	
				Easting	332768.0 (MGA 2020 Zone 56)	

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
		10.10		40.00	Sandy CLAY: low plasticity, pale grey	M		
		10.23		39.87	NO CORE: 130mm thick	PL		
					SANDSTONE: fine to medium grained, with dark grey laminate, thinly bedded.			
		11						
		12						
		12.73		37.37	NO CORE: 370mm thick			
		13						
		13.10		37.00	SANDSTONE: fine to medium grained, with dark grey laminate, thinly bedded.			
		13.79		36.31	NO CORE: 810mm thick			
		14						
		14.60		35.60	SANDSTONE: fine to medium grained, with extremely weathered bands and dark grey laminate, thinly bedded.			
		15.00		35.10	NO CORE: 200mm thick			
		15.20		34.90	SANDSTONE: fine to medium grained, with extremely weathered bands and dark grey and brown laminate, thinly bedded.			
		16						
		16.00		34.10	NO CORE: 520mm thick			
		16.52		33.68	SANDSTONE: fine to medium grained, grey with dark grey laminate, thinly bedded.			
		17						
					Terminated at 17.80m. Target Depth Reached.			
		18						
		19						
		20						

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



BOREHOLE LOG

BH ID: BH208M

Location	13-15, Oxford Street and 2 Verona Street Paddington NSW			Started	08 September 2025	
Client	Aspire Property Consulting			Completed	08 September 2025	
Job No.	E25559.G04			Logged By	S2	Date 08 September 2025
Sheets	1 of 3			Review By	SK	Date
Drilling Contractor	Tightsite Geotechnical & Environmental Drilling			Surface RL	≈43.50 m (AHD)	
Plant	Hand Portable Rig			Inclination	90°	
				Northing	6251631.2 (MGA 2020 Zone 56)	
				Easting	333765.5 (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	DCP BLOWS	MATERIAL ORIGIN & OBSERVATIONS
DT				0.00		43.50	CONCRETE: 200mm thick	-	-		CONCRETE
				0.20		43.30	Sandy CLAY: low plasticity, pale brown and red brown, with fine to coarse grained sandstone gravels.	M	St		RESIDUAL SOIL
HA		BH208M_0.60-0.70		1				W	VSt		
				2.00		41.50	Log continued on next page.				
				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: BH208M

Location	13-15, Oxford Street and 2 Verona Street Paddington NSW			Started	08 September 2025	
Client	Aspire Property Consulting			Completed	08 September 2025	
Job No.	E25559.G04			Logged By	S2	Date 08 September 2025
Sheets	2 of 3			Review By	SK	Date
Drilling Contractor	Tightsite Geotechnical & Environmental Drilling			Surface RL	≈43.50 m (AHD)	
Plant	Hand Portable Rig			Inclination	90°	
				Northing	6251631.2 (MGA 2020 Zone 56)	
				Easting	333765.5 (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			SANDSTONE: fine to medium grained, red brown and grey, ironstained, with extremely weathered bands, thinly bedded.			2.30-3.00: XWZ	
		100	31	3.00		40.50	SANDSTONE: fine to medium grained, red brown and grey, ironstained, with dark brown and grey laminate, thinly bedded.	DW		3.22-3.24: CS	
				4.00		39.50	SANDSTONE: fine to medium grained, grey and red brown, ironstained, with dark grey laminate and trace of carbonaceous lenses, thinly bedded.	SW		3.80-3.96: CZ	
		100	90	5.60		37.90	SANDSTONE: fine to medium grained, grey with dark grey laminate, thinly bedded.			6.48: BP 5° PR RO Clay VN	
		100	100	7.60		35.90	From 7.60m, interbedded siltstone bands.	FR		6.88-6.91: XWS	
				8.00		35.50	SANDSTONE: fine to medium grained, grey with dark grey laminate, thinly bedded.			7.61-7.63: CS	
		100	100	8.30		35.20	From 8.30m, thinly to medium bedded.				
				9							
				10							

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



BOREHOLE CORE LOG

BH ID: BH208M

Location	13-15, Oxford Street and 2 Verona Street Paddington NSW	Started	08 September 2025		
Client	Aspire Property Consulting	Completed	08 September 2025		
Job No.	E25559.G04	Logged By	S2	Date	08 September 2025
Sheets	3 of 3	Review By	SK	Date	

Drilling Contractor	Tightsite Geotechnical & Environmental Drilling	Surface RL	≈43.50 m (AHD)	Northing	6251631.2 (MGA 2020 Zone 56)
Plant	Hand Portable Rig	Inclination	90°	Easting	333765.5 (MGA 2020 Zone 56)

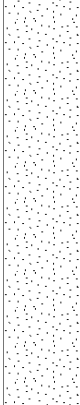
METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m(AHD))	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
NMLC	95%	100	100						VL 0-1 L 0-3 M 1 H 3 VH 10 EH		30 100 300 1000 3000
				11			From 8.30m, thinly to medium bedded.	FR			
				12		32.12	Terminated at 11.38m. 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: BH208M

Location	13-15, Oxford Street and 2 Verona Street Paddington NSW	Started	08 September 2025
Client	Aspire Property Consulting	Completed	08 September 2025
Job No.	E25559.G04	Logged By	S2
Sheets	1 of 2	Date	08 September 2025
Drilling Contractor	Tightsite Geotechnical & Environmental Drilling	Surface RL	≈43.50 m (AHD)
Plant	Hand Portable Rig	Inclination	90°
		Northing	6251631.2 (MGA 2020 Zone 56)
		Easting	333765.5 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
▽	BH208M_0.60-0.70	0.00		43.50	CONCRETE: 200mm thick	-		Well Stickup =0.0m (RL 43.50m)
		0.20		43.30	Sandy CLAY: low plasticity, pale brown and red brown, with fine to coarse grained sandstone gravels.	M		
95%		1		41.50	SANDSTONE: fine to medium grained, red brown and grey, ironstained, with extremely weathered bands, thinly bedded.	W		0.0m - 5.10m PVC casing (50mm Ø)
		2.00		41.50	SANDSTONE: fine to medium grained, red brown and grey, ironstained, with extremely weathered bands, thinly bedded.			
		3.00		40.50	SANDSTONE: fine to medium grained, red brown and grey, ironstained, with dark brown and grey laminate, thinly bedded.			
		4.00		39.50	SANDSTONE: fine to medium grained, grey and red brown, ironstained, with dark grey laminate and trace of carbonaceous lenses, thinly bedded.			
		5.60		37.90	SANDSTONE: fine to medium grained, grey with dark grey laminate, thinly bedded.			
		6						
		7.60		35.90	From 7.60m, interbedded siltstone bands.			5.10m - 8.10m PVC screen (50mm Ø)
		8.00		35.50	SANDSTONE: fine to medium grained, grey with dark grey laminate, thinly bedded.			
		8.30		35.20	From 8.30m, thinly to medium bedded.			
		9						
		10						

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



MONITORING WELL LOG

BH ID: BH208M

Location	13-15, Oxford Street and 2 Verona Street Paddington NSW			Started	08 September 2025	
Client	Aspire Property Consulting			Completed	08 September 2025	
Job No.	E25559.G04			Logged By	S2	Date 08 September 2025
Sheets	2 of 2			Review By	SK	Date
Drilling Contractor	Tightsite Geotechnical & Environmental Drilling			Surface RL	≈43.50 m (AHD)	
Plant	Hand Portable Rig			Inclination	90°	
				Northing	6251631.2 (MGA 2020 Zone 56)	
				Easting	333765.5 (MGA 2020 Zone 56)	

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
95%		11		32.12	From 8.30m, thinly to medium bedded.		Sand 8.60m - 11.38m	
		12			Terminated at 11.38m. 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.

Appendix F -Groundwater Monitoring Event Field Notes 16 September 2025

WATER SAMPLING FIELD SHEET



Site Address: 17 Oxford Street, 2 Verona Street		Job Number: E21159						
Client:		Date: 16/9/25						
Field Staff: MC		Sampling Location ID: BH101M						
Well Location: 17 Oxford Street		Round No: 2						
MEDIUM ☒ Groundwater ☐ Surface Water ☐ Stormwater ☐ Other:								
SAMPLING POINT INFO								
Well Installation Date: -		Stick up / down (m): 0.07 (+ above ground - below ground)						
Initial Well Depth (mBTOC): -		Screen Interval (mBTOC): -						
Previous Sampling Date: -		Previous SWL (mBTOC): -						
PID READINGS								
PID Headspace (ppm): 0.1		PID Background (ppm): 0.0						
PID Breathing Space (ppm): 0.1								
PRE PURGE								
Total Well Depth (mBTOC): 8.75		Well Head Condition: Good						
SWL (mBTOC): 4.72		Water Column (m): -						
PHASE SEPARATED HYDROCARBONS (PSH)								
Depth to PSH (mBTOC): -		PSH Visually Confirmed (Bailer): No PSH						
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 (mBTOC): 7.75		Fill Timer: 10						
Pump Pressure Regulator (psi): -		Discharge Timer: 5						
Weather Conditions: Cloudy		Cycle: -						
Pump on time: 11:56		Pump off time: 12:18						
WATER QUALITY PARAMETERS								
Probe Make and Model: Hanna 9894 Multiparameter		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.)
12:20	1	4.88	17.81	303	141.2	0.4	5.21	pale brown to clear, low turbidity, no sheen, no odour
12:03	1	5.01	17.41	309	140.1	0.4	5.03	
12:06	1	5.26	17.31	306	138.7	0.3	5.01	
12:09	1	5.41	17.19	303	137.1	0.3	4.99	
Stabilisation range: 3 consecutive readings			±0.2°C	±3%	±20mV	±10%	±0.2	
OTHER COMMENTS/OBSERVATIONS:								
SIGNATURE:								

WATER SAMPLING FIELD SHEET



Site Address: B-15, 17 Oxford Street, 2 Victoria Paddington	Job Number: 625779
Client: MC	Date: 16/9/25
Field Staff:	Sampling Location ID: BH209M
Well Location: B-15 Oxford	Round No: 1
☒ MEDIUM Groundwater ☐ Surface Water ☐ Stormwater ☐ Other:	

SAMPLING POINT INFO	
Well Installation Date: 8/9/25	Stick up / down (m): 0.1 (+ above ground - below ground)
Initial Well Depth (mBTOC): -	Screen Interval (mBTOC): -
Previous Sampling Date: -	Previous SWL (mBTOC): -

PID READINGS	
PID Headspace (ppm): 0.7	PID Background (ppm): 0.1
PID Breathing Space (ppm): 0.3	

PRE PURGE	
Total Well Depth (mBTOC): 7.70	Well Head Condition: Good
SWL (mBTOC): 0.84	Water Column (m): -

PHASE SEPARATED HYDROCARBONS (PSH)	
Depth to PSH (mBTOC):	PSH Visually Confirmed (Bailer): No PSH
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 (mBTOC): 6.70	Fill Timer: 10
Pump Pressure Regulator (psi):	Discharge Timer: 5
Weather Conditions: Cloudy	Cycle:
Pump on time: 12.21	Pump off time: 12.48

WATER QUALITY PARAMETERS	
Probe Make and Model: Hanna 98194 multiparameter	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.)
12.24	1	1.56	16.32	403	190.1	0.13	4.07	Pale brown, grey, high turbidity, no sheen, no odour
12.27	1	1.93	16.35	400	232.1	0.5	4.7	
12.30	1	2.29	16.34	411	243.1	0.5	4.65	
12.33	1	2.50	16.33	414	243.9	0.04	4.69	
Stabilisation range: 3 consecutive readings			±0.2°C	±3%	±20mV	±10%	±0.2	

OTHER COMMENTS/OBSERVATIONS:

SIGNATURE:

WATER SAMPLING FIELD SHEET



Site Address: 13-15, 17 Oxford Street, 2 Vernon Street Poddington		Job Number: E25559						
Client:		Date: 16/9/21						
Field Staff: MC		Sampling Location ID: BH201M						
Well Location: 2 Vernon		Round No: 1						
MEDIUM ☒ Groundwater ☐ Surface Water ☐ Stormwater ☐ Other:								
SAMPLING POINT INFO								
Well Installation Date: 9/9/21		Stick up / down (m): 0.08 (+ above ground - below ground)						
Initial Well Depth (mBTOC): -		Screen Interval (mBTOC):						
Previous Sampling Date: -		Previous SWL (mBTOC):						
PID READINGS								
PID Headspace (ppm): 2.4		PID Background (ppm): 0.2						
PID Breathing Space (ppm): 0.8								
PRE PURGE								
Total Well Depth (mBTOC): 14.5		Well Head Condition: Good						
SWL (mBTOC): 9.14		Water Column (m): -						
PHASE SEPARATED HYDROCARBONS (PSH)								
Depth to PSH (mBTOC):		PSH Visually Confirmed (Bailer): No PSH						
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 (mBTOC): 13.5		Fill Timer: 10						
Pump Pressure Regulator (psi):		Discharge Timer: 5						
Weather Conditions: Cloudy		Cycle: -						
Pump on time: 10:37		Pump off time: 11:05						
WATER QUALITY PARAMETERS								
Probe Make and Model: HANNA HI994 multiparameter		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.)
10:40	1	8.59	17.51	416	-267.9	0.01	5.81	brown, high turbidity, no odor / sheen.
10:44	1	9.78	17.19	384	-167.5	0.02	4.91	
10:47	1	10.00	17.79	401	-189.6	0.01	4.99	
10:50	1		17.71	412	-215.8	0.01	4.98	
Stabilisation range: 3 consecutive readings			±0.2°C	±3%	±20mV	±10%	±0.2	
OTHER COMMENTS/OBSERVATIONS:								
QAQC → 80 - 20250916 QT - 20250916								
SIGNATURE:								



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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 ☐

Instrument Conditions: Good

Calibration gas species: Isobutylene.

Calibration gas concentration: 100 ppm Batch

Gas bottle number: 3405120 130A Perf no W0388602-3

This PID has been calibrated to Isobutylene gas with the span concentration displayed as 101.3 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: 100 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: 16/9/25

Time: 9.10am.

Appendix G –Land Insight Report

Due Diligence Insight Report

2 Verona Street
Paddington, NSW

22 Jul 2024

Report n°:
LI-4214 DDR

Understanding your report

Thank you for ordering your report from Land Insight. If you have any feedback, questions or queries, please get in touch with us at orders@landinsight.co.

Your Report has been produced by Land Insight and contains information related to current and historical land use information, environmental risks and hazards.

The information presented in this report includes Land Insights' comprehensive research into current and historical land use derived from Land Insight's proprietary National Land Use Atlas (NLUA), environmental risk information and data available from public databases, third party providers, local and state authorities. The report also includes detailed property and soil setting information, hydrogeology, identification of potential pollution and contamination along with ground and natural hazards. The records identified are presented within a 200 to 2000m radius (buffer zone) from the boundaries of the Property searched, depending on the screened constraint. The report is separated and grouped into easy to navigate sections as per Summary below:

	Section 1	PROPERTY SETTING	Sensitive Receptors, Planning Controls, Zoning, Heritage, Soil and Land Information, Geology and Topography
	Section 2	HYDROGEOLOGY AND GEOTECHNICAL	Groundwater Bores and Other Borehole investigations, Groundwater Dependent Ecosystems (GDE), Aquifer and Wetland, Other Hydrogeology information.
	Section 3	ENVIRONMENTAL REGISTERS, LICENCES AND INCIDENTS	Contaminated Land Public Register, Licences, Audits and Orders, Sites Regulated by Other Jurisdictional Body (Former Gaswork sites / PFAS sites, UXO Areas), Historical Landfills, Derelict Mines and National Pollutant Inventory (NPI).
	Section 4	POTENTIALLY CONTAMINATED AREAS	Potentially Contaminating activities (Industries, businesses and activities that may cause contamination), Historical Potentially Contaminating activities and Historical Land Use.
	Section 5	NATURAL HAZARDS	Erosion hazard, Flood hazards, Bushfire prone land and Bushfire history.

This report includes data listed on page 4 (table of contents). All sources of data and definitions are provided in the Product Guide (Attached). For a full list of references, metadata, publications or additional information not provided in this report, please contact orders@landinsight.co.

This report does not include information derived from a physical inspection. It is important to note that a site inspection can present information relevant to other risks and hazards that may not be identified by this Report.

Due to the ongoing nature of database development and frequency of updates provided by various state government regulators and data sources, the data displayed within this report is only current from date of production. While every effort is made to ensure the details in your Report are correct, Land Insight cannot guarantee the accuracy or completeness of the information and/or data provided.

This Report, and your use of it, is regulated by Land Insight's Terms and Conditions. For more information, see Land Insight's Product Guide.

Report Summary

Dataset name		Onsite	On Buffer	Buffer Distance
Section 1 - Property Setting				
1.1	Sensitive Receptors		✓	200m
1.2a	Planning Controls (<i>Zoning</i>)	✓	✓	500m
1.2b	Planning Overlays (<i>Environmental Planning Instruments</i>)	✓	✓	500m
	Planning Overlays (<i>Other Planning Information</i>)			500m
1.3	Heritage (<i>State and Local Heritage</i>)	✓	✓	200m
	Heritage (<i>Australian and World Heritage Database Register</i>)	✓	✓	200m
1.4a	Soil and Land Use Information (<i>Soil Landscape</i>)	✓	✓	500m
	Soil and Land Use Information (<i>Soil Salinity</i>)			500m
	Soil and Land Use Information (<i>Radon</i>)	✓	✓	500m
1.4b	Acid Sulfate Soil (<i>State and Local Acid Sulfate Soil Registers</i>)	✓	✓	500m
	Acid Sulfate Soil (<i>National Acid Sulfate Soil Registers</i>)	✓	✓	500m
1.5	Geology and Topography (<i>Geology</i>)	✓	✓	500m
	Geology and Topography (<i>Naturally Occurring Asbestos Potential NOA</i>)			500m
Section 2 - Hydrogeology and Geotechnical				
2.1	GDE & Hydrogeology Constraints (<i>Aquifer Type</i>)	✓	✓	2000m
	GDE & Hydrogeology Constraints (<i>Groundwater Protection Areas</i>)			2000m
	GDE & Hydrogeology Constraints (<i>Wetlands</i>)		✓	2000m
	GDE & Hydrogeology Constraints (<i>GDE Surface</i>)			2000m
	GDE & Hydrogeology Constraints (<i>GDE Subsurface</i>)		✓	2000m
	GDE & Hydrogeology Constraints (<i>Groundwater Licences</i>)			2000m
	GDE & Hydrogeology Constraints (<i>Groundwater Bores</i>)		✓	2000m
2.2	Groundwater and Other Bores (<i>Groundwater Restricted Use Zones</i>)		✓	2000m
	Groundwater and Other Bores (<i>Groundwater Salinity</i>)	✓	✓	2000m
	Groundwater and Other Bores (<i>Other Known Boreholes Investigations</i>)		✓	2000m
Section 3 - Environmental Registers, Licences and Incidents				
3.1	Contaminated Land Public Register (<i>Contaminated Sites</i>)		✓	1000m
3.2	Licences, Approvals & Assessments (<i>Licences</i>)		✓	1000m
	Licences, Approvals & Assessments (<i>Audits</i>)			1000m
	Licences, Approvals & Assessments (<i>Clean up Notices, Penalty Notices and Orders</i>)		✓	1000m
3.3a	Sites Regulated by other Jurisdictional Body (<i>Contaminated Legacy Areas</i>)			2000m
	Sites Regulated by other Jurisdictional Body (<i>Defence, Military Sites and UXO Areas</i>)		✓	2000m
	Sites Regulated by other Jurisdictional Body (<i>Former Gasworks Sites</i>)		✓	2000m
	Sites Regulated by other Jurisdictional Body (<i>PFAS Sites</i>)		✓	2000m
3.3b	Other Potential Hazard Sources (<i>Mines and Quarries</i>)			500m
	Other Potential Hazard Sources (<i>Landfills</i>)			500m
	Other Potential Hazard Sources (<i>National Pollutant Inventory NPI</i>)			500m
Section 4 - Potentially Contaminated Areas				
4.1	Potentially Contaminating Activities (<i>Liquid Fuel Facilities</i>)		✓	200m
4.2	Historical Business Directories	✓	✓	200m
Section 5 - Natural Hazards				
5.1	Fire Hazard (<i>Bushfire Prone Areas</i>)			500m
	Fire Hazard (<i>Bushfire History</i>)			500m
5.2	Flood Hazard (<i>Flood Planning Area</i>)		✓	500m
	Flood Hazard (<i>Other Flood Studies</i>)		✓	500m
	Flood Hazard (<i>Flood History</i>)			500m
5.3	Erosion Hazard	✓	✓	500m

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ATTACHMENTS

Attachment A - Report Maps

Attachment B - Historical Imagery

Land Insight Product Guide and Terms and Conditions



Section 1 Property Setting

1.1 SENSITIVE RECEPTORS

Map 1.1 (200m Buffer)

Sensitive receptor	Type	Distance (m)	Direction
Rose Terrace Park	Parks	7.4	North-west
Greek Orthodox Church of St Sophia	Places of Worship and Religious Organisations	72.5	South-west
Napier Street Open Space	Parks	84.4	South-east
UNSW Art & Design	Education	136.3	South-east
Barcom Avenue Park	Parks	157.4	North-east
Sacred Heart Catholic Church	Places of Worship and Religious Organisations	163.9	North-west
The University of Notre Dame Australia	Education	165.2	North-west
Comber Street Reserve	Parks	170.0	North-east
St Vincent's Private Hospital Sydney	Hospital and Health Care	174.5	North
St Vincent's Hospital	Hospital and Health Care	189.3	North

1.2a PLANNING CONTROLS

Map 1.2a (500m Buffer)

Zoning

Zoning	Type	Details	Distance (m)	Direction
R1	General Residential	Sydney Local Environmental Plan 2012	0.0	Onsite
RE1	Public Recreation	Sydney Local Environmental Plan 2012	0.1	North-west
E1	Local Centre	Sydney Local Environmental Plan 2012	0.1	North-east
SP2	Infrastructure	Sydney Local Environmental Plan 2012	36.9	North-east

Zoning	Type	Details	Distance (m)	Direction
MU1	Mixed Use	Woollahra Local Environmental Plan 2014	48.4	North-east
MU1	Mixed Use	Sydney Local Environmental Plan 2012	65.1	North-west
R2	Low Density Residential	Woollahra Local Environmental Plan 2014	81.4	North-east
SP1	Special Activities	Sydney Local Environmental Plan 2012	144.3	South-east
RE1	Public Recreation	Woollahra Local Environmental Plan 2014	170.0	North-east
R3	Medium Density Residential	Woollahra Local Environmental Plan 2014	229.2	North-east
RE2	Private Recreation	Woollahra Local Environmental Plan 2014	474.4	East

1.2b PLANNING OVERLAYS

Map 1.2b (500m Buffer)

Environmental Planning Instruments

Name	Type	Details	Distance (m)	Direction
Included	Land Application	Sydney Local Environmental Plan 2012	0.0	Onsite
Land Application	SEPP Land Application	State Environmental Planning Policy (Transport and Infrastructure) 2021	0.0	Onsite
Oxford Street Cultural and Creative Precinct	Locality and Site Identification Map	Sydney Local Environmental Plan 2012	0.0	Onsite
Buffer Area	Coal Seam Gas Exclusions	State Environmental Planning Policy (Resources and Energy) 2021	0.0	Onsite
8-8.9	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	0.0	Onsite
Category E	Public Transport Accessibility Level	Sydney Local Environmental Plan 2012	0.0	Onsite
Land Application	SEPP Land Application	State Environmental Planning Policy (Exempt and Complying Development Codes) 2008	0.0	Onsite
Land Application	SEPP Land Application	State Environmental Planning Policy (Housing) 2021	0.0	Onsite
1.5-1.99	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	0.0	Onsite
Land Application	SEPP Land Application	State Environmental Planning Policy (Resources and Energy) 2021	0.0	Onsite
2.5-2.99	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	0.0	Onsite
Land Application	SEPP Land Application	State Environmental Planning Policy (Biodiversity and Conservation) 2021	0.0	Onsite
Land Application	SEPP Land Application	State Environmental Planning Policy (Resilience and Hazards) 2021	0.0	Onsite
Land Application	SEPP Land Application	State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development	0.0	Onsite
Item - General	Heritage	Sydney Local Environmental Plan 2012	0.0	Onsite
Residual Lands	Locality and Site Identification Map	Sydney Local Environmental Plan 2012	0.0	Onsite
Land Application	SEPP Land Application	State Environmental Planning Policy (Sustainable Buildings) 2022	0.0	Onsite
Greater Sydney	Greater Sydney	State Environmental Planning Policy (Transport and Infrastructure) 2021	0.0	Onsite

Name	Type	Details	Distance (m)	Direction
Sydney Harbour Catchment	Sydney Harbour Catchment	State Environmental Planning Policy (Biodiversity and Conservation) 2021	0.0	Onsite
Class 5	Acid Sulfate Soils	Sydney Local Environmental Plan 2012	0.0	Onsite
Conservation Area - General	Heritage	Sydney Local Environmental Plan 2012	0.0	Onsite
Land Application	SEPP Land Application	State Environmental Planning Policy (Primary Production) 2021	0.0	Onsite
Excluded	Allowable Clearing	State Environmental Planning Policy (Biodiversity and Conservation) 2021	0.0	Onsite
20	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	0.0	Onsite
12-12.9	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	0.0	Onsite
15-16.9	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	0.0	Onsite
Category B	Land Use and Transport Integration	Sydney Local Environmental Plan 2012	0.0	Onsite
Subject Land	SEPP Land Application	State Environmental Planning Policy (Biodiversity and Conservation) 2021	0.0	Onsite
1-1.09	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	0.0	Onsite
Land Application	SEPP Land Application	State Environmental Planning Policy (Industry and Employment) 2021	0.0	Onsite
40%	Minimum Water Use Standard (%)	State Environmental Planning Policy (Sustainable Buildings) 2022	0.0	Onsite
3.5	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	0.0	Onsite
Land Within a Residential Zone	Coal Seam Gas Exclusions	State Environmental Planning Policy (Resources and Energy) 2021	0.0	Onsite
Land Application	SEPP Land Application	State Environmental Planning Policy (Planning Systems) 2021	0.0	Onsite
1.2-1.29	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	9.5	South-west
3-3.49	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	10.3	South-east
3.25	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	10.3	South-east
9-9.9	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	12.0	South
Included	Land Application	Woollahra Local Environmental Plan 2014	47.2	North-east
Conservation Area - General	Heritage	Woollahra Local Environmental Plan 2014	47.2	North-east
Class 5	Acid Sulfate Soils	Woollahra Local Environmental Plan 2014	47.4	North-east
1-1.09	Maximum Floor Space Ratio (n:1)	Woollahra Local Environmental Plan 2014	60.4	North-east
9-9.9	Maximum Building Height (m)	Woollahra Local Environmental Plan 2014	60.4	North-east
2-2.49	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	71.9	South-east
4	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	84.1	North-west
23	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	84.1	North-west
200-249	Minimum Lot Size (sq m)	Woollahra Local Environmental Plan 2014	87.2	North-east
Classified Road (R2)	Infrastructure	Woollahra Local Environmental Plan 2014	124.1	North
21-22.9	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	128.8	North-west

Name	Type	Details	Distance (m)	Direction
Category A	Land Use and Transport Integration	Sydney Local Environmental Plan 2012	129.5	North-west
Category F	Public Transport Accessibility Level	Sydney Local Environmental Plan 2012	145.1	South-east
Item - General	Heritage	Woollahra Local Environmental Plan 2014	174.5	South-east
17-18.9	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	183.9	North-east
18	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	196.9	North-west
3.5-3.99	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	197.3	North-west
2.75	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	204.8	North-west
3.75	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	218.5	North-west
22	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	218.9	North-west
0.6-0.64	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	222.6	South-west
6-6.4	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	222.6	South-west
10-10.9	Maximum Building Height (m)	Woollahra Local Environmental Plan 2014	228.1	North-east
700-749	Minimum Lot Size (sq m)	Woollahra Local Environmental Plan 2014	228.1	North-east
4-4.49	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	233.8	West
25-29.9	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	237.1	West
24	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	259.3	North-west
3.8	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	259.3	North-west
0.75-0.79	Maximum Floor Space Ratio (n:1)	Woollahra Local Environmental Plan 2014	290.1	East
55-59.9	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	290.6	West
0-3.6	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	291.6	West
40-44.9	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	296.1	West
4.5-4.99	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	296.4	North-west
30-34.9	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	328.5	West
23-24.9	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	338.5	South-west
0.8-0.84	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	342.7	West
4.5	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	347.5	North-west
60 - 80	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	367.7	North-west
7-7.99	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	391.6	North-east
5-5.99	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	426.9	North
6-6.99	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	433.8	North-west

Name	Type	Details	Distance (m)	Direction
5	Maximum Floor Space Ratio (n:1)	Sydney Local Environmental Plan 2012	451.0	North-west
25	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	452.1	North-west
15-16.9	Maximum Building Height (m)	Woollahra Local Environmental Plan 2014	469.6	East
1.5-1.99	Maximum Floor Space Ratio (n:1)	Woollahra Local Environmental Plan 2014	469.6	East
12-12.9	Maximum Building Height (m)	Woollahra Local Environmental Plan 2014	469.8	East
27	Maximum Building Height (m)	Sydney Local Environmental Plan 2012	472.3	North-west
CA	Maximum Floor Space Ratio (n:1)	Woollahra Local Environmental Plan 2014	473.8	East

Other Planning Information

Name	Type	Details	Distance (m)	Direction
Not identified	-	-	-	-

1.3 HERITAGE

Map 1.3 (200m Buffer)

State and Local Heritage Registers

Site ID	Site Name	Type	Details	Distance (m)	Direction
00568	Busby's Bore	State Heritage Register	Built	0.0	Onsite
I1	Busby's Bore	Heritage Register	Item - General	0.0	Onsite
C50	Paddington Urban	Heritage Register	Conservation Area - General	0.0	Onsite
I1103	Terrace group	Heritage Register	Item - General	0.0	Onsite
I1102	Terrace group	Heritage Register	Item - General	7.1	South-west
I1106	Terrace group	Heritage Register	Item - General	23.3	West
I1107	Terrace group	Heritage Register	Item - General	32.5	West
I1105	Terrace group	Heritage Register	Item - General	34.8	North-west
I1108	St Sophia Greek Orthodox Cathedral group	Heritage Register	Item - General	39.2	South-west
01968	The Greek Orthodox Cathedral of Saint Sophia (Agia Sophia)	State Heritage Register	Built	40.6	South-west
C15	Woollahra	Heritage Register	Conservation Area - General	48.4	North-east
I1081	Terrace group	Heritage Register	Item - General	64.7	South
I1104	Terrace group	Heritage Register	Item - General	76.4	South
I1062	University of NSW College of Fine Arts	Heritage Register	Item - General	76.4	South
I1065	Terrace group	Heritage Register	Item - General	83.5	South-west
C17	Oxford Street	Heritage Register	Conservation Area - General	86.0	North-west
I416	Beauchamp Hotel	Heritage Register	Item - General	86.0	North-west

Site ID	Site Name	Type	Details	Distance (m)	Direction
I470	Terrace group	Heritage Register	Item - General	87.5	North-west
02068	Sydney Mardi Gras Parade Route	State Heritage Register	Landscape	95.4	North-west
I1064	Terrace group	Heritage Register	Item - General	100.3	South
I469	Terrace group	Heritage Register	Item - General	105.8	North-west
C49	Victoria Barracks	Heritage Register	Conservation Area - General	111.7	South-east
I471	Terrace group	Heritage Register	Item - General	118.8	North-west
I468	Terrace group	Heritage Register	Item - General	119.7	North-west
I2292	Weatherboard cottage	Heritage Register	Item - General	123.6	West
I467	Terrace group	Heritage Register	Item - General	137.4	North-west
C11	Barcom Avenue	Heritage Register	Conservation Area - General	143.7	North-east
I1086	Victoria Barracks group	Heritage Register	Item - General	144.5	South-east
I466	Terrace group	Heritage Register	Item - General	144.6	North-west
I409	Sacred Heart Church group	Heritage Register	Item - General	146.5	North-west
I290	Former Wesleyan School	Heritage Register	Item - General	148.5	West
I292	House	Heritage Register	Item - General	157.9	South-west
C12	Darlinghurst Ridge	Heritage Register	Conservation Area - General	161.2	North
I291	Terrace group	Heritage Register	Item - General	162.2	South-west
I293	Terrace group	Heritage Register	Item - General	169.0	South-west
I693	London Tavern Hotel and interiors	Heritage Register	Item - General	174.4	South-east
I1044	Terrace house 'Onslow House'	Heritage Register	Item - General	191.3	South
I295	Terrace group	Heritage Register	Item - General	191.9	South-west
C59	Bourke Street North	Heritage Register	Conservation Area - General	193.2	West
I294	Terrace group	Heritage Register	Item - General	194.1	South-west
I1045	Corner shop & residence	Heritage Register	Item - General	195.0	South

Australian Heritage Database Register

Site ID	Site Name	Type	Details	Distance (m)	Direction
106369	Sydney Cultural Crescent Rock Art	National Heritage List	Class = Indigenous Status = Assessment initiated by AHC	0.0	Onsite
105281	Victoria Barracks Perimeter Wall and Gates	Commonwealth Heritage List	Class = Historic Status = Listed place	143.2	South-east

Site ID	Site Name	Type	Details	Distance (m)	Direction
105277	Victoria Barracks Precinct	Commonwealth Heritage List	Class = Historic Status = Listed place	144.2	South-east
105305	Buildings VB90, 91, 91A & 92	Commonwealth Heritage List	Class = Historic Status = Listed place	174.4	South-east

Commonwealth Heritage List, National Heritage List and World Heritage Area.

1.4a SOIL AND LAND USE INFORMATION

Map 1.4a (500m Buffer)

Soil Landscape

Code	Name	Soil Group	Description	Distance (m)	Direction
REbt	Blacktown	Residual	Landscape—gently undulating rises on Wianamatta Group shales. Local relief to 30 m, slopes usually >5%. Broad rounded crests and ridges with gently inclined slopes. Cleared Eucalypt woodland and tall open-forest (dry sclerophyll forest). Soils—shallow to moderately deep (>100 cm) hardsetting mottled texture contrast soils, red and brown podzolic soils (Dr3.21, Dr3.31, Db2.11, Db2.21) on crests grading to yellow podzolic soils (Dy2.11, Dy3.11) on lower slopes and in drainage lines. Limitations—localised seasonal waterlogging, localised water erosion hazard, moderately reactive highly plastic subsoil, localised surface movement potential.	0.0	Onsite
ERgy	Gymea	Erosional	Landscape—undulating to rolling rises and low hills on Hawkesbury Sandstone. Local relief 20–80 m, slopes 10–25%. Rock outcrop <25%. Broad convex crests, moderately inclined side slopes with wide benches, localised rock outcrop on low broken scarps. Extensively cleared open forest (dry sclerophyll forest) and eucalypt woodland. Soils—shallow to moderately deep (30–100 cm) yellow earths (Gn2.24) and earthy sands (Uc5.11, Uc5.2) on crests and insides of benches; shallow (<20 cm) siliceous sands (Uc1.21) on leading edges of benches; localised gleyed podzolic soils (Dg4.21) and yellow podzolic soils (Dy4.11, Dy5.11, Dy5.41) on shale lenses; shallow to moderately deep (<100 cm) siliceous sands (Uc1.2) and leached sands (Uc2.21) along drainage lines. Limitations—steep slopes, water erosion hazard, rock outcrop, localised rockfall hazard, localised noncohesive soils, shallow highly permeable soil, very low soil fertility.	78.2	East
AEtg	Tuggerah	Aeolian	Landscape—gently undulating to rolling coastal dunefields. Local relief to 20 m; slope gradients 5–45%. North-south local oriented dunes with convex narrow crests, moderately inclined slopes and broad gently inclined concave swales. Extensively cleared openforest, Eucalypt/Angophora woodland, and scrub. Soils—deep (>200 cm) Podzols (Uc2.31, Uc2.32, Uc2.34) on older dunes with mature open-forest or woodland; deep (>200 cm) Siliceous Sands (Uc1.21, Uc1.22) on younger dunes and disturbed areas; Humus Podzols (Uc4.21, Uc4.24) in swampy swales. Limitations—extreme wind erosion hazard, noncohesive, highly permeable soils with very low fertility. Localised flooding and permanently high watertables, mine subsidence district.	307.3	South-west

Salinity

Salinity Hazard	Type	Details	Distance (m)	Direction
Not identified	-	-	-	-

Radon

Radon Level (Bq/m ³)	Distance (m)	Direction
7	0.0	Onsite

Typical radon levels in Australia are low and the values shown are the average values for each census district. For specific location, factors such as the local geology and house type could lead to different values. (ARPANSA).

1.4b ACID SULFATE SOIL

Map 1.4b (500m Buffer)

State and Local Acid Sulfate Soil Registers

Name	Classification	Description	Distance (m)	Direction
Acid Sulfate Soils	Class 5	Class 5: Acid sulfate soils are not typically found in Class 5 areas. Areas classified as Class 5 are located within 500 metres on adjacent class 1,2,3 or 4 land. Development consent requirement: Works within 500 metres of adjacent Class 1, 2a, 2b, 3 or 4 land that is below 5 metres Australian Height Datum and by which the watertable is likely to be lowered below 1 metre Australian Height Datum on adjacent Class 1, 2a, 2b, 3 or 4 land.	0.0	Onsite

To ensure that development does not disturb, expose or drain acid sulfate soils and cause environmental damage, development consent may be required for the carrying out of works within areas and land shown on the Acid Sulfate Soils Map.

National Acid Sulfate Soil Register

Name	Classification	Description	Distance (m)	Direction
Atlas of Australian Acid Sulfate Soils	Low Probability of occurrence	Acid sulfate soil generally within upper 1m in wet / riparian areas.	0.0	Onsite

Source: ASRIS Atlas of Australian Sulfate Soils (CSIRO). Acid Sulfate Soils (ASS) are all those soils in which sulfuric acid may be produced, is being produced, or has been produced in amounts that have a lasting effect on main soil characteristics.

1.5 GEOLOGY AND TOPOGRAPHY

Map 1.5 (500m Buffer)

Geology

Map Sheet	Code	Formation	Age	Group	Dominant Lithology	Description	Distance (m)	Direction
Sydney 1:100,000 Geological Sheet	Twia	Ashfield Shale	Middle Triassic (base) to Middle Triassic (top)	Wianamatta Group	Shale	Black to light grey shale and laminite.	0.0	Onsite
Sydney 1:100,000 Geological Sheet	Tuth	Hawkesbury Sandstone	Anisian (base) to Anisian (top)	Ungrouped Triassic units	Sandstone	Medium- to coarse-grained quartz sandstone displaying small- to large-scale, high-angle cross-bedding; minor shale and laminite lenses.	86.8	South-east
Newcastle to Wollongong Coastal Quaternary Mapping	QH_bd	Coastal deposits - dune facies	Holocene (base) to Now (top)	Coastal deposits	Sand	Marine-deposited and aeolian-reworked coastal sand dunes.	462.9	South

Naturally Occurring Asbestos Potential (NOA)

Category	On the Property?	Within Buffer?
Not identified	-	-

Topography

Topography (Onsite)	50 mAHD
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Section 2 Hydrogeology and Geotechnical



2.1 GDE & HYDROGEOLOGY CONSTRAINTS

Map 2.1 (2000m Buffer)

Aquifer Type

Type	Distance (m)	Direction
Porous, extensive highly productive aquifers	0.0	Onsite

Groundwater Protection Areas

Name	Water Plan Area	Distance (m)	Direction
Not identified	-	-	-

Wetlands

Name	Description	Distance (m)	Direction
Port Jackson	Estuarine water body	1377.2	North-east
Null	Dam	1843.7	South-east

Groundwater Dependent Ecosystems (GDE) - Aquatic (Surface)

Potential	Distance (m)	Direction
Not identified	-	-

Aquatic - Ecosystems that rely on the Surface expression of groundwater.

Groundwater Dependent Ecosystems (GDE) - Terrestrial (Subsurface)

Potential	Distance (m)	Direction
Low potential GDE - from national assessment	1836.4	South-east

Terrestrial - Ecosystems that rely on the Subsurface expression of groundwater.

Groundwater Licences (Western Australia)

Map ID	WRI number	Allocation (KL)	Address	All Parties	Distance (m)	Direction
Not identified	-	-	-	-	-	-

Groundwater Bores

Map ID	Groundwater Bore ID	Authorised Purpose	Completion Date	Drilled Depth (m)	Final Depth (m)	SWL (m)	Salinity (mg/l)	Yield (L/s)	Distance (m)	Direction
135	GW112180	Monitoring	01/03/1999	30.0	30.0	Null	Null	Null	190.5	South-west
134	GW112179	Monitoring	01/03/1999	30.0	30.0	Null	Null	Null	213.3	North-west
117	Null	Null	Null	Null	Null	Null	Null	Null	213.3	North-west
122	GW109239	Monitoring	19/08/2008	7.5	7.4	4.6	Fresh	Null	233.5	West
111	GW109240	Monitoring	20/08/2008	7.5	7.5	5.7	Fresh	Null	234.0	West
123	GW109238	Monitoring	19/08/2008	7.5	7.5	4.6	Fresh	Null	269.1	West
136	GW112181	Monitoring	01/03/1999	30.0	30.0	Null	Null	Null	295.5	South-west
137	GW112182	Monitoring	01/03/1999	30.0	30.0	Null	Null	Null	355.5	South
116	Null	Null	Null	Null	Null	Null	Null	Null	366.5	North-west
133	GW112178	Monitoring	01/03/1999	30.0	30.0	Null	Null	Null	366.5	North-west
129	GW200690	Household	20/12/2007	Null	6.0	Null	Null	Null	418.1	West
82	GW112177	Monitoring	01/03/1999	30.0	30.0	Null	Null	Null	543.9	North-west
81	GW112176	Monitoring	01/03/1999	30.0	30.0	Null	Null	Null	552.0	North-west
20	GW105473	Monitoring	12/06/2003	2.4	2.4	Null	Null	Null	565.8	East
80	GW112175	Monitoring	01/03/1999	30.0	30.0	Null	Null	Null	609.8	North
125	GW102476	Monitoring	01/01/1999	Null	4.0	Null	Null	Null	688.9	South-west
139	GW112184	Monitoring	01/03/1999	30.0	30.0	Null	Null	Null	746.6	North
119	Null	Null	Null	Null	Null	Null	Null	Null	746.6	North
34	GW114495	Monitoring	20/12/2010	6.2	6.2	Null	Null	Null	848.4	North
35	GW114496	Monitoring	20/12/2010	5.5	5.5	Null	Null	Null	862.1	North
36	GW114497	Monitoring	20/12/2010	10.0	5.5	Null	Null	Null	869.3	North
145	GW116398	Null	Null	6.0	6.0	Null	Null	3.0	879.5	North-east
146	GW116399	Null	Null	6.0	6.0	Null	Null	2.0	886.1	North-east

Map ID	Groundwater Bore ID	Authorised Purpose	Completion Date	Drilled Depth (m)	Final Depth (m)	SWL (m)	Salinity (mg/l)	Yield (L/s)	Distance (m)	Direction
147	GW116401	Null	Null	6.3	6.3	Null	Null	2.0	915.3	North-east
3	GW103063	Monitoring	21/08/2000	5.0	Null	Null	Null	Null	937.5	North-east
14	GW103058	Monitoring	23/09/1999	6.2	6.2	Null	Null	Null	937.5	North-east
28	GW103068	Monitoring	24/09/1999	5.0	5.0	Null	Null	Null	937.6	North-east
12	GW103065	Monitoring	23/09/1999	6.0	5.2	Null	Null	Null	937.7	North-east
17	GW103066	Monitoring	23/09/1999	6.0	4.7	Null	Null	Null	937.7	North-east
13	GW103067	Monitoring	24/09/1999	5.0	5.0	Null	Null	Null	938.0	North-east
4	GW103064	Monitoring	21/08/2000	5.0	Null	Null	Null	Null	938.2	North-east
2	GW103062	Monitoring	21/08/2000	6.2	Null	Null	Null	Null	938.2	North-east
10	GW103059	Monitoring	23/09/1999	6.0	5.5	Null	Null	Null	939.2	North-east
118	Null	Null	Null	Null	Null	Null	Null	Null	941.4	North
138	GW112183	Monitoring	01/03/1999	30.0	30.0	Null	Null	Null	941.4	North
24	GW106911	Recreation	11/11/2004	42.6	42.6	10.5	360.00 mg/L	1.3	946.8	North-east
110	GW100268	Monitoring	28/09/1993	18.0	18.0	8.2	Null	Null	948.9	South
87	GW024057	Irrigated agriculture	01/11/1966	13.1	13.1	Null	Null	1.3	956.4	South-east
94	GW105485	Recreation	25/09/2003	11.5	11.5	7.2	Null	0.5	983.6	South-east
95	GW105480	Recreation	23/07/2003	13.5	13.5	5.1	Null	1.0	1019.4	South-east
92	GW105076	Household	30/04/2003	10.0	10.0	6.0	Null	1.0	1027.1	South
144	GW115529	Null	Null	0.0	15.0	3.5	Null	1.3	1037.1	South-east
143	GW115468	Null	Null	0.0	5.0	3.5	Null	1.3	1037.1	South-east
127	GW104131	Recreation	03/08/2000	Null	20.0	7.0	Null	Null	1052.6	South
114	GW105920	Household	13/05/2005	Null	Null	6.0	Null	Null	1091.7	South
142	GW115467	Null	Null	0.0	15.0	3.5	Null	1.3	1101.2	South-east
88	GW024058	Irrigated agriculture	01/11/1966	10.4	10.3	Null	Null	Null	1101.3	South-east
23	GW107418	Household	21/10/2005	11.5	11.5	3.5	Good	1.0	1164.0	North-east
89	GW101640	Recreation	30/07/1993	17.9	17.9	7.0	Null	Null	1218.2	South
126	GW104133	Recreation	28/07/2000	Null	20.5	5.5	Fresh	Null	1230.3	South
96	GW105525	Household	18/11/2003	5.5	5.5	2.7	Null	1.0	1231.8	South
29	GW100467	Irrigated agriculture	15/03/1996	15.5	14.5	2.4	Null	5.0	1256.3	North-east
27	GW109375	Irrigated agriculture	29/09/2008	Null	13.5	Null	Null	Null	1266.0	East
104	GW106328	Household	12/06/2004	9.5	9.5	Null	Null	Null	1319.6	South

Map ID	Groundwater Bore ID	Authorised Purpose	Completion Date	Drilled Depth (m)	Final Depth (m)	SWL (m)	Salinity (mg/l)	Yield (L/s)	Distance (m)	Direction
11	GW026439	Irrigated agriculture	01/07/1966	7.9	7.9	1.0	Potable	3.3	1335.1	North-east
124	GW042158	Monitoring	Null	Null	21.1	Null	Null	Null	1472.4	South
86	GW017356	Recreation	01/01/1942	30.5	30.4	9.1	Good	18.9	1581.5	South
112	213007	Unknown	Null	Null	Null	Null	Null	Null	1587.8	South-east
121	GW042158.1.1	Null	Null	Null	Null	Null	Null	Null	1637.0	South
120	GW042158.1	Null	Null	Null	Null	Null	Null	Null	1637.0	South
22	GW107358	Household	26/08/2005	180.5	180.5	41.8	166.00 mg/L	0.1	1645.7	East
109	GW100546	Monitoring	09/03/1997	14.5	14.5	6.4	Good	9.5	1649.8	South
106	GW100293	Recreation	23/02/1994	20.0	18.0	6.9	Good	7.5	1668.8	South
99	GW106471	Household	22/11/2004	2.0	2.0	Null	Null	Null	1681.3	North-east
65	GW113879	Monitoring	25/07/2003	5.3	5.3	Null	Null	Null	1681.7	West
46	GW113860	Monitoring	16/09/2003	6.5	6.5	Null	Null	Null	1687.2	West
41	GW113855	Monitoring	22/07/2003	5.0	5.0	Null	Null	Null	1690.8	West
69	GW113883	Monitoring	20/08/2004	6.1	6.1	Null	Null	Null	1692.0	West
79	GW113893	Monitoring	11/10/2005	8.5	8.5	Null	Null	Null	1692.7	West
42	GW113856	Monitoring	23/07/2003	6.2	6.2	Null	Null	Null	1692.7	West
71	GW113885	Monitoring	20/08/2004	7.0	7.0	Null	Null	Null	1694.8	West
78	GW113892	Monitoring	09/10/2005	7.0	7.0	Null	Null	Null	1695.6	West
77	GW113891	Monitoring	09/10/2005	6.8	6.8	Null	Null	Null	1698.4	West
60	GW113874	Monitoring	19/09/2003	7.0	7.0	Null	Null	Null	1699.4	West
59	GW113873	Monitoring	26/07/2003	6.0	6.0	Null	Null	Null	1699.9	West
39	GW109500	Monitoring BORING BORE	01/03/2007	4.8	4.8	2.3	Null	Null	1701.1	West
70	GW113884	Monitoring	20/08/2004	6.8	6.8	Null	Null	Null	1701.2	West
61	GW113875	Monitoring	30/07/2003	7.5	7.5	Null	Null	Null	1701.2	West
76	GW113890	Monitoring	09/10/2005	6.0	6.0	Null	Null	Null	1703.0	West
68	GW113882	Monitoring	20/08/2004	6.1	6.1	Null	Null	Null	1706.8	West
67	GW113881	Monitoring	20/08/2004	6.1	6.1	Null	Null	Null	1711.0	West
43	GW113857	Monitoring	23/07/2003	6.0	6.0	Null	Null	Null	1711.3	West
75	GW113889	Monitoring	05/10/2004	6.7	6.7	Null	Null	Null	1712.4	West
44	GW113858	Monitoring	19/09/2003	6.3	6.3	Null	Null	Null	1713.6	West
72	GW113886	Monitoring	01/10/2004	5.8	5.8	Null	Null	Null	1719.6	West

Map ID	Groundwater Bore ID	Authorised Purpose	Completion Date	Drilled Depth (m)	Final Depth (m)	SWL (m)	Salinity (mg/l)	Yield (L/s)	Distance (m)	Direction
45	GW113859	Monitoring	15/09/2003	6.1	6.1	Null	Null	Null	1721.7	West
74	GW113888	Monitoring	05/10/2004	5.5	5.5	Null	Null	Null	1725.8	West
73	GW113887	Monitoring	05/10/2004	5.7	5.7	Null	Null	Null	1730.4	West
97	GW106985	Household	24/03/2005	159.0	159.0	14.0	Null	0.1	1732.1	South-east
16	GW017869	Manufacturing and industry	01/01/1955	18.0	17.9	4.7	Good	Null	1732.9	South
9	GW111433	Monitoring	24/01/2011	7.0	6.3	Null	Null	Null	1739.2	South-west
6	GW017340	Manufacturing and industry	01/06/1958	18.6	18.5	4.2	Good	Null	1750.2	South
19	GW106265	Household	15/07/2004	198.5	198.5	59.2	210.00 mg/L	0.1	1778.6	East
64	GW113878	Monitoring	07/11/2003	7.0	7.0	Null	Null	Null	1788.7	West
102	GW106913	Household	10/04/2005	9.5	9.5	Null	Null	Null	1789.3	South
115	GW108285	Unknown	23/07/2007	Null	Null	Null	Null	Null	1795.4	East
63	GW113877	Monitoring	28/07/2003	5.5	5.5	Null	Null	Null	1797.0	West
62	GW113876	Monitoring	25/07/2003	7.8	7.8	Null	Null	Null	1805.5	West
8	GW111434	Monitoring	24/01/2011	8.0	8.0	Null	Null	Null	1808.3	South-west
58	GW113872	Monitoring	16/09/2003	8.0	8.0	Null	Null	Null	1811.3	West
107	GW109251	Monitoring	21/08/2008	3.0	3.0	1.4	Fresh	Null	1813.4	South-east
90	GW103691	Household	03/05/2001	9.0	9.0	Null	Null	Null	1813.9	South
18	GW017870	Manufacturing and industry	01/03/1955	18.0	17.9	Null	Good	Null	1816.1	South
108	GW109252	Monitoring	21/08/2008	2.7	2.7	1.4	Fresh	Null	1821.4	South-east
57	GW113871	Monitoring	08/11/2003	6.0	6.0	Null	Null	Null	1822.2	West
56	GW113870	Monitoring	07/11/2003	4.8	4.8	Null	Null	Null	1822.9	West
55	GW113869	Monitoring	29/07/2003	6.0	6.0	Null	Null	Null	1823.2	West
54	GW113868	Monitoring	18/02/2014	3.7	3.7	Null	Null	Null	1823.9	West
1	GW037956	Manufacturing and industry	01/04/1972	21.1	Null	6.4	invalid code	Null	1824.0	South
53	GW113867	Monitoring	22/07/2003	3.5	3.5	Null	Null	Null	1824.8	West
51	GW113865	Monitoring	21/07/2003	6.5	6.5	Null	Null	Null	1825.3	West
52	GW113866	Monitoring	18/02/2003	3.0	3.0	Null	Null	Null	1825.6	West
50	GW113864	Monitoring	22/07/2003	4.5	4.5	Null	Null	Null	1826.1	West
49	GW113863	Monitoring	16/09/2003	4.6	4.6	Null	Null	Null	1827.1	West
48	GW113862	Monitoring	28/07/2003	3.8	3.8	Null	Null	Null	1827.1	West
93	GW105965	Household	17/03/2004	9.5	9.5	Null	Null	Null	1828.9	South

Map ID	Groundwater Bore ID	Authorised Purpose	Completion Date	Drilled Depth (m)	Final Depth (m)	SWL (m)	Salinity (mg/l)	Yield (L/s)	Distance (m)	Direction
66	GW113880	Monitoring	20/08/2004	5.0	5.0	Null	Null	Null	1839.9	West
47	GW113861	Monitoring	30/07/2003	6.5	6.5	Null	Null	Null	1840.2	West
15	GW104266	Monitoring	11/04/2002	35.6	22.8	9.0	Null	9.0	1844.2	South
85	GW017907	Water supply	Null	12.5	12.4	Null	Null	Null	1849.0	East
98	GW107326	Household	01/08/2005	9.0	9.0	Null	Null	Null	1860.0	South
26	GW108245	Recreation	21/09/2006	20.8	20.8	5.8	198 mg/L	1.5	1860.7	South
130	GW113470	Monitoring	11/02/2008	5.7	5.7	Null	Null	Null	1885.7	South-west
100	GW106730	Household	28/10/2004	15.0	15.0	12.0	Null	1.0	1886.1	South
128	GW109270	Household	26/08/2008	Null	11.0	2.0	Null	2.5	1886.6	South
7	GW048937	Recreation	01/06/1974	24.4	24.4	4.7	Null	Null	1890.3	South
101	GW106693	Household	21/11/2004	11.3	11.3	7.9	Good	1.0	1893.6	South
31	GW111015	Monitoring	18/02/2003	7.0	7.0	Null	Null	Null	1913.4	South-west
32	GW111014	Monitoring	18/12/2003	6.5	6.5	Null	Null	Null	1913.4	South-west
37	GW109501	Monitoring	01/03/2007	6.0	6.0	2.3	Null	Null	1913.4	West
38	GW109503	Monitoring	01/03/2007	5.2	5.2	2.2	Null	Null	1914.7	West
103	GW108228	Household	02/09/2006	17.0	17.0	Null	Null	Null	1919.0	South
40	GW109502	Monitoring	01/03/2007	6.4	6.4	2.2	Null	Null	1924.0	West
131	GW113471	Monitoring	11/02/2008	Null	4.5	Null	Null	Null	1929.5	South-west
91	GW038046	Recreation	01/11/1974	24.4	24.3	9.1	Good	22.7	1931.3	South
5	GW071907	Recreation	15/05/2008	180.0	180.0	11.6	345 mg/L	0.1	1936.6	South-west
25	GW107539	Household	13/09/2005	13.0	13.0	8.5	193.00 mg/L	0.8	1951.9	East
113	GW105919	Unknown	13/05/2005	Null	Null	Null	Null	Null	1953.2	South
132	GW113472	Monitoring	11/02/2008	6.2	6.2	Null	Null	Null	1953.9	South-west
140	GW113144	Monitoring	12/05/2011	0.0	9.8	Null	Null	Null	1961.5	South
33	GW111016	Monitoring	30/01/2004	4.5	4.4	Null	Null	Null	1961.6	South-west
105	GW101759	Household	12/11/1995	11.0	11.0	8.2	Good	1.0	1963.1	South
83	GW113383	Recreation (groundwater)	29/08/2013	8.0	8.0	1.9	646.00 mg/L	1.0	1969.7	North-east
84	GW112904	Monitoring	12/05/2011	9.0	9.0	8.1	Null	Null	1979.3	South
30	GW109648	Monitoring	03/05/2008	6.2	6.2	5.2	Null	0.5	1993.9	West
141	GW113145	Monitoring	13/05/2011	0.0	9.7	Null	Null	Null	1997.8	South
21	GW107323	Household	23/08/2005	162.5	162.5	38.2	220.00 mg/L	0.3	1998.4	North-east

Note: The use of the symbol "-" or "Null" indicates that no records were found.

Groundwater Bores Driller Lithology Details

Groundwater Bore ID	From Depth – To Depth (m)	Lithology	Distance (m)	Direction
GW112180	Null		190.5	South-west
GW112179	Null		213.3	North-west
Null	Null		213.3	North-west
GW109239	0m-0.1m Asphalt 0.1m-0.6m Fill brown,gravel,clay 0.6m-2.9m Clay brown orange,red,silt moist 2.9m-7.45m Shale red,grey, clay bands		233.5	West
GW109240	0.1m-0.2m Concrete 0.2m-0.5m Fill brown,gravel,clay,glass,brick,sandstone 0.5m-2.7m Clay,red, grey,white 2.7m-7.5m Shale red,weathered, clay bands,moist		234.0	West
GW109238	0m-0.1m Asphalt 0.1m-0.4m Fill,brick,sandstone 0.4m-2.5m Clay brown 2.5m-7.5m Shale, red/grey		269.1	West
GW112181	Null		295.5	South-west
GW112182	Null		355.5	South
GW112178	Null		366.5	North-west
GW200690	Null		418.1	West
GW112177	Null		543.9	North-west
GW112176	Null		552.0	North-west
GW105473	0m-2m Sand,grey/brown,medium grained 2m-2.4m Sandstone,bedrock		565.8	East
GW112175	Null		609.8	North
GW102476	Null		688.9	South-west
GW112184	Null		746.6	North
GW114495	0m-0.2m Concrete 0m-0.2m Concrete 0.2m-0.3m Roadbase 0.2m-0.3m Roadbase 0.3m-2.9m Sandstone,Grey Med To High Strength 0.3m-2.9m Sandstone,Grey Med To High Strength 2.9m-3.1m Sandstone Grey Low Strength 2.9m-3.1m Sandstone Grey Low Strength 3.1m-6.15m Sandstone Grey Med To High Strength 3.1m-6.15m Sandstone Grey Med To High Strength		848.4	North
GW114496	0m-0.2m Concrete 0m-0.2m Concrete 0.2m-0.3m Roadbase 0.2m-0.3m Roadbase 0.3m-5.5m Sandstone High Strength 0.3m-5.5m Sandstone High Strength		862.1	North
GW114497	0m-0.2m Concrete 0m-0.2m Concrete 0.2m-0.3m Roadbase 0.2m-0.3m Roadbase 0.3m-6.9m Sandstone,Brown Med. To High Strength 0.3m-6.9m Sandstone,Brown Med. To High Strength 6.9m-7.2m Siltstone 6.9m-7.2m Siltstone 7.2m-10m Sandstone Grey		869.3	North
GW116398	Null		879.5	North-east
GW116399	Null		886.1	North-east
GW116401	Null		915.3	North-east
GW103063	0m-3.5m Fill 3.5m-5m Sand		937.5	North-east

Groundwater Bore ID	From Depth – To Depth (m)	Lithology	Distance (m)	Direction
GW103058	0m-5m Fill 5m-6.2m Sand		937.5	North-east
GW103068	0m-3.9m Fill 3.9m-5m Sandstone		937.6	North-east
GW103065	0m-4m Fill 4m-6m Sand		937.7	North-east
GW103066	0m-4.7m Fill 4.7m-6m Sandstone		937.7	North-east
GW103067	0m-4m Fill 4m-4.8m Sand 4.8m-5m Sandstone		938.0	North-east
GW103064	0m-3.6m Fill 3.6m-5m Sand		938.2	North-east
GW103062	0m-4.1m Fill 4.1m-6.2m Sand		938.2	North-east
GW103059	0m-5m Fill 5m-6m Sand		939.2	North-east
GW112183	Null		941.4	North
GW106911	0m-0.4m Black sand ,clay 0.4m-0.8m Dark grey shale 0.8m-2.4m Dark grey sand 2.4m-3.3m Dark grey sandy clay 3.3m-6.6m Grey sandstone 6.6m-8.1m Brown sandstone 8.1m-9.4m Grey sandstone 9.4m-9.6m Grey shale 9.6m-16.5m Grey sandstone 16.5m-17.1m Grey sandstone fractured 17.1m-27.4m Lt grey sandstone 27.4m-27.5m Grey clay 27.5m-33.5m Lt grey sandstone 33.5m-34.1m Dark grey shale 34.1m-42.6m Grey sandstone		946.8	North-east
GW100268	0m-0.2m Fill 0.2m-4.5m Yellow sand 4.5m-6m Light grey sand 6m-6.7m Dark brown peaty sand 6.7m-8m White sand 8m-12.2m Yellow sand- water bearing 12.2m-13m Brown silty sand-water bearing 13m-15.5m Yellow sand-high water bearing 15.5m-16.5m White sand (silty)-water bearing 16.5m-18m Decomposed sandstone, getting harder		948.9	South
GW024057	0m-1.52m Loam sandy 0m-1.52m Topsoil 1.52m-3.04m Sand dark brown 3.04m-6.09m Sand yellow water supply 6.09m-11.27m Sand dark brown wet water supply 11.27m-11.88m Sand light brown wet water supply 11.88m-13.1m Clay veined water supply 11.88m-13.1m Sand light brown wet water supply		956.4	South-east
GW105485	0m-0.5m Bitumen/road base fill 0.5m-1.2m Brown sand fill 1.2m-3.6m Brick hill/road base 3.6m-9.5m Yellow sand 9.5m-11.5m Red/white decomposed sandstone		983.6	South-east
GW105480	0m-0.5m Bitumen,fill 0.5m-1.2m Brown sand 1.2m-4.6m Yellow sand 4.6m-5.9m Yellow sand with orange silt 5.9m-8.6m Yellow sand/decom. sandstone 8.6m-10.3m Yellow sand/orange silt 10.3m-13.5m Red,white,decomposed sandstone		1019.4	South-east
GW105076	0m-10m Sand		1027.1	South
GW115529	Null		1037.1	South-east
GW115468	Null		1037.1	South-east

Groundwater Bore ID	From Depth – To Depth (m)	Lithology	Distance (m)	Direction
GW104131	Null		1052.6	South
GW105920	Null		1091.7	South
GW115467	Null		1101.2	South-east
GW024058	0m-1.52m Sand gravel 1.52m-4.57m Sand dry 4.57m-6.09m Sand grey dry 6.09m-7.62m Sand white dry 7.62m-10.36m Sandstone soft firm		1101.3	South-east
GW107418	0m-0.1m Bitumen 0.1m-1.5m Fill, round bands 1.5m-7m Sand, grey silty 7m-11.5m Sand, yellow silty		1164.0	North-east
GW101640	0m-4.3m Topsoil with fill 4.3m-6.5m Light grey sand 6.5m-7m Brown sand 7m-9.6m Yellow silty sand 9.6m-10.5m Light brown sand wb 10.5m-14.8m White sand wb 14.8m-16.6m Yellow silty sand 16.6m-17.9m Decomposed sandstone		1218.2	South
GW104133	Null		1230.3	South
GW105525	0m-2.745m Sandy clay, soil land fill 2.75m-5.49m Unconsolidated all sands		1231.8	South
GW100467	0m-0.2m Brown sandy soil 0.2m-1.3m Fill sand, bricks, bottles 1.3m-6.5m Brown sand 6.5m-12m Yellow sand 12m-13m Brown sand 13m-14.5m Very silty brown sand 14.5m-15.5m Grey clay		1256.3	North-east
GW109375	0m-1m Brown soil 1m-3.5m Brown sand 3.5m-3.8m Black peaty sand 3.8m-5m Sandy brown clay 5m-6m Black peaty sand 6m-13.5m Brown silty sand		1266.0	East
GW106328	0m-9.5m Sand		1319.6	South
GW026439	0m-1.79m Clay rubble 1.79m-2.13m Clay 2.13m-5.18m Sand white fossils: carbonised wood water supply 5.18m-7.92m Sand white clean water supply		1335.1	North-east
GW042158	Null		1472.4	South
GW017356	0m-30.48m Sand water supply		1581.5	South
213007	Null		1587.8	South-east
GW042158.1.1	Null		1637.0	South
GW042158.1	Null		1637.0	South
GW107358	0m-0.2m Fill 0.2m-0.5m Sand, light brown 0.5m-1.4m Clay, dark brown sandy 1.4m-2m Sand, golden 2m-3.5m Sandstone, brown weathered 3.5m-7.6m Sandstone, light grey 7.6m-8.1m Shale, grey 8.1m-22.5m Sandstone, light grey 22.5m-22.7m Shale, black, mineralised, water bearing 22.7m-24.1m Sandstone, light grey 24.1m-24.3m Shale, black, mineralised, water bearing 24.3m-60.6m Sandstone, light grey 60.6m-61m Siltstone, dark grey/grey sandstone & quartz, water bearing 61m-78.4m Sandstone, light grey 78.4m-129.8m Sandstone, light grey & some quartz bands 129.8m-180.5m Sandstone, light grey with siltstone bands		1645.7	East
GW100546	0m-14.5m Botany bay sands		1649.8	South

Groundwater Bore ID	From Depth – To Depth (m)	Lithology	Distance (m)	Direction
GW100293	0m-0.8m Fill 0.8m-12.8m Yellow sand 12.8m-15.2m White silty sand 15.2m-18m Yellow sand w.b. 18m-19m Yellow silty sand 19m-20m Decomposed sandstone		1668.8	South
GW106471	0m-0.5m Topsoil 0.5m-1m Sandstone, fill 1m-2m Clay, silty sand and sandstone fill		1681.3	North-east
GW113879	Null		1681.7	West
GW113860	Null		1687.2	West
GW113855	Null		1690.8	West
GW113883	Null		1692.0	West
GW113893	Null		1692.7	West
GW113856	Null		1692.7	West
GW113885	Null		1694.8	West
GW113892	Null		1695.6	West
GW113891	Null		1698.4	West
GW113874	Null		1699.4	West
GW113873	Null		1699.9	West
GW109500	Null		1701.1	West
GW113884	Null		1701.2	West
GW113875	Null		1701.2	West
GW113890	Null		1703.0	West
GW113882	Null		1706.8	West
GW113881	Null		1711.0	West
GW113857	Null		1711.3	West
GW113889	Null		1712.4	West
GW113858	Null		1713.6	West
GW113886	Null		1719.6	West
GW113859	Null		1721.7	West
GW113888	Null		1725.8	West
GW113887	Null		1730.4	West
GW106985	0m-0.3m Topsoil 0.3m-0.6m Sandstone, weathered 0.6m-7m Sandstone, with soft bands 7m-159m Sandstone, with shale bands		1732.1	South-east
GW017869	0m-1.82m Made ground 1.82m-3.65m Sand dry water supply 3.65m-10.97m Sand water supply 10.97m-11.58m Clay sandy peat 11.58m-12.19m Sand grey water supply 12.19m-12.8m Sand grey dirty water supply 12.8m-13.71m Sand grey peaty water supply 13.71m-14.93m Sand dirty water supply 14.93m-16.15m Sand water supply clay peat 16.15m-16.45m Sand water supply 16.45m-16.76m Clay water supply 16.76m-17.37m Sand grey clean water supply 17.37m-17.98m Peat		1732.9	South
GW111433	0m-2m Fill,silty,gravelly sand 2m-7m Sand, light brown, grey, brown		1739.2	South-west
GW017340	0m-15.24m Made ground sand 15.24m-18.59m Clay water supply sand peaty		1750.2	South
GW106265	0m-1.3m Fill 1.3m-3m Sand, yellow		1778.6	East

Groundwater Bore ID	From Depth – To Depth (m)	Lithology	Distance (m)	Direction
	3m-28.8m Sandstone, light grey, brown 28.8m-29.2m Siltstone, dark grey 29.2m-47m Sandstone, light grey 47m-47.3m Shale, grey 47.3m-47.6m Siltstone, light brown 47.6m-80.7m Sandstone, light grey 80.7m-80.9m Shale, grey 80.9m-81.5m Sandstone, grey 81.5m-84m Siltstone, grey 84m-90.3m Sandstone, grey 90.3m-90.9m Shale, grey 90.9m-101.5m Sandstone, light gey 101.5m-102m Siltstone 102m-131m Sandstone, light grey & quartz 131m-133m Sandstone, grey and quartz 133m-152.3m Sandstone, light grey and quartz 152.3m-152.7m Siltstone, black 152.7m-180.5m Sandstone, light grey som quartz 180.5m-180.7m Shale, dark grey 180.7m-191.5m Sandstone, grey 191.5m-193.5m Siltstone, dark grey 193.5m-194.5m Sandstone, light grey and quartz 194.5m-196.5m Siltstone, dark grey 196.5m-198.5m Sandstone, dark grey			
GW113878	Null		1788.7	West
GW106913	0m-9.5m Sand		1789.3	South
GW108285	Null		1795.4	East
GW113877	Null		1797.0	West
GW113876	Null		1805.5	West
GW111434	0m-0.5m Fill, silty sand,fine to medium grained 0.5m-2m Sand,fine to medium grained,brown,tace of silt 2m-8m Sand fine to medium grained,brown		1808.3	South-west
GW113872	Null		1811.3	West
GW109251	0m-0.4m Fill,gravely silty clay sandstone 0.4m-3m Sandstone weathered,wet at1.95m		1813.4	South-east
GW103691	0m-9m Sand		1813.9	South
GW017870	0m-5.18m Made ground 5.18m-6.7m Sand dry packed 6.7m-8.83m Sand white water supply 8.83m-10.05m Sand 10.05m-10.97m Sand hard cemented 10.97m-13.1m Sand dirty water supply 13.1m-14.63m Sand grey water supply 14.63m-14.93m Sand grey peaty 14.93m-16.76m Sand grey water supply 16.76m-17.98m Clay		1816.1	South
GW109252	0m-0.3m Fill,fine to med grained sand 0.3m-2.7m Sandstone weathered , wet @ 1.8m		1821.4	South-east
GW113871	Null		1822.2	West
GW113870	Null		1822.9	West
GW113869	Null		1823.2	West
GW113868	Null		1823.9	West
GW037956	0m-2.59m Made ground 2.59m-3.04m Sand grey 3.04m-5.02m Sand yellow clean 5.02m-6.4m Sand yellow clean wet 6.4m-7.84m Sand hard cemented very fine 7.84m-7.92m Sand hard cemented 7.92m-10.51m Sand yellow water supply 10.51m-11.73m Sand dirty water supply 11.73m-11.81m Sand hard cemented 11.81m-13.56m Sand grey dirty water supply 13.56m-15.24m Sand yellow clean		1824.0	South

Groundwater Bore ID	From Depth – To Depth (m)	Lithology	Distance (m)	Direction
	15.24m-15.84m Clay organic 15.84m-18.13m Sand grey water supply 18.13m-20.11m Sand white clean water supply 20.11m-21.1m Clay dark grey water supply			
GW113867	Null		1824.8	West
GW113865	Null		1825.3	West
GW113866	Null		1825.6	West
GW113864	Null		1826.1	West
GW113863	Null		1827.1	West
GW113862	Null		1827.1	West
GW105965	0m-9.5m Sand		1828.9	South
GW113880	Null		1839.9	West
GW113861	Null		1840.2	West
GW104266	0m-2.6m Black sandy clay/rock fill 2.6m-4.6m Dark grey sandy clay/gravel 4.6m-6.6m Lt. brown fine sand 6.6m-8.6m Light brown fine sand 8.6m-10.6m White fine sand 10.6m-12.6m White fine sand 12.6m-14.6m White sandy clay 14.6m-16.6m Brown sandy clay 20% 16.6m-18.6m Brown sandy clay 50% 18.6m-20.6m Brown sandy clay 70% 20.6m-22.6m Peat 22.6m-24.6m Dense peat 24.6m-26.6m Dense peat 26.6m-28.6m Light peat 28.6m-30.6m Grey clay 30.6m-32.6m Grey clay 32.6m-34.6m Sandy clay 34.6m-35.6m Weathered grey to hard sandstone		1844.2	South
GW017907	0m-12.49m Sand water supply		1849.0	East
GW107326	0m-9m Sand		1860.0	South
GW108245	0m-0.75m Sandstone rocks & fill 0.75m-2m Sand and rubbish 2m-5m Sand and heavy peat 5m-13m Sand 13m-19.9m Sand with peat layers 19.9m-20.8m Sandstone grey		1860.7	South
GW113470	Null		1885.7	South-west
GW106730	0m-15m Sand		1886.1	South
GW109270	Null		1886.6	South
GW048937	0m-2.74m Made ground 2.74m-12.19m Sand light brown water supply 12.19m-13.72m Sand dirty water supply 13.72m-16.76m Sand dirty clay bands interlayere water supply 16.76m-17.98m Sand water supply 17.98m-22.71m Sand white water supply 22.71m-24.38m Clay grey		1890.3	South
GW106693	0m-11.285m Sand		1893.6	South
GW111015	0m-0.3m Concrete 0.3m-1m Sand,gravelly,silty,sandstone and ash 1m-3.5m Sand, silty,m/dense 3.5m-4.4m Sand,gravelly,dense,saturated,yellow 4.4m-4.8m Silty sand 4.8m-5.4m Sand,gravelly,dense,saturated,yellow 5.4m-6.6m Sand,clayey, medium dense,pale,gre 6.6m-7m Clay,sandy,silty,stiff,moist		1913.4	South-west
GW111014	0m-0.2m Concrete 0.2m-3.7m Sand		1913.4	South-west

Groundwater Bore ID	From Depth – To Depth (m)	Lithology	Distance (m)	Direction
	3.7m-6.1m Silty sand 6.1m-6.5m Clay,gravelly,sandy,moist,ironstone,gravel			
GW109501	Null		1913.4	West
GW109503	Null		1914.7	West
GW108228	0m-17m Sand		1919.0	South
GW109502	Null		1924.0	West
GW113471	Null		1929.5	South-west
GW038046	0m-0.3m Sand 0.3m-0.91m Rubble 0.91m-9.14m Sand 9.14m-12.19m Sand water supply 12.19m-13.71m Sand white water supply 13.71m-18.89m Sand water supply 18.89m-19.81m Sand clay bands 19.81m-24.38m Sand white water supply 24.38m-24.39m Clay sandy		1931.3	South
GW071907	0m-3m Sandy clay 3m-8.5m Clay 8.5m-24m Shale 24m-24.5m Sandstone grey 24.5m-24.7m Sandstone grey fractured 24.7m-44m Sandstone grey 44m-55m Sandstone quartz 55m-55.5m Sandstone grey fractured 55.5m-82m Sandstone grey 82m-85m Sandstone quartz 85m-128m Sandstone grey 128m-130m Sandstone quartz 130m-138m Sandstone grey 138m-154m Sandstone quartz 154m-180m Sandstone grey		1936.6	South-west
GW107539	0m-13m Sand		1951.9	East
GW105919	Null		1953.2	South
GW113472	Null		1953.9	South-west
GW113144	Null		1961.5	South
GW111016	0m-0.2m Concrete 180 mm 0.2m-1m Sand,gravelly clayey,fill,sandstone 1m-3.4m Sand,silty,medium,dense,moist 3.4m-3.5m Sand,dense,saturated,yellow,minor clay 3.5m-4.4m Sand,clayey,loose to med.dense 4.4m-4.5m Clay,gravelly silty,firm,very moist		1961.6	South-west
GW101759	0m-10.98m Unconsolidated sand		1963.1	South
GW113383	0m-0.3m Topsoil 0.3m-1.3m Sand Yellow 1.3m-4.5m Clay Grey Silty 4.5m-6.8m Sand Silty Grey 6.8m-8m Sandstone Orange Decomposed		1969.7	North-east
GW112904	Null		1979.3	South
GW109648	0m-2.9m Fill,brown/grey,loose gravel,concrete,sand 2.9m-4.9m Silty clay,lt grey,mott.brown high plasticity 4.9m-5.8m Silty sand,lt grey,med course grained 5.8m-6.2m Sandstone,red,brown,weathered,clay bands		1993.9	West
GW113145	Null		1997.8	South
GW107323	0m-0.8m Fill 0.8m-4.3m Sand, white 4.3m-5.7m Sandstone, weathered 5.7m-8.9m Sandstone, light grey 8.9m-13m Sandstone, light grey & grey shale 13m-24m Sandstone, light grey 24m-25m Shale, silty grey 25m-25.8m Sandstone, light grey 25.8m-27.2m Shale, silty grey 27.2m-55.4m Sandstone, grey		1998.4	North-east

Groundwater Bore ID	From Depth – To Depth (m)	Lithology	Distance (m)	Direction
	55.4m-55.8m Shale, grey 55.8m-56.5m Sandstone, grey 56.5m-57m Sandstone, grey coarse grained, water bearing 57m-71.7m Sandstone, grey 71.7m-72m Sandstone, grey, grey siltstone 72m-105.5m Sandstone, grey some small quartz bands 105.5m-105.7m Clay, light grey, soft 105.7m-106m Sandstone, light brown, water bearing 106m-114m Sandstone, grey light brown 114m-118.2m Siltstone, dark grey 118.2m-162.5m Sandstone, light grey			

Note: The use of the symbol "-" or "Null" indicates that no records were found.

2.2 GROUNDWATER AND OTHER BORES

Map 2.2 (2000m Buffer)

Groundwater Restricted Use Zones

Name / Number	Address	Site History	Description	Distance (m)	Direction
Zone 2	Null	Botany Groundwater Management Zones (BGMZ). A century of industrial activities in the Botany area in Sydney has resulted in the contamination of bore water (also known as groundwater) in the sandy ground surrounding Botany Bay. In 2006, the NSW Government prohibited the extraction of groundwater for domestic use in some parts of Botany, and required monitoring for the extraction of groundwater for industrial and irrigation purposes. The current Temporary Water Restrictions Order commenced in 2018 and replaces the 2006 Order. (NSW Government - Botany Sands groundwater source fact sheet for residents - February 2018).	Water Restrictions Order Area 2. Zones 2 to 4 – domestic groundwater use is banned, especially for drinking water, watering gardens, washing windows and cars, bathing, or to fill swimming pools.	607.0	South

Groundwater Salinity

Class	Salinity Value	Source	Distance (m)	Direction
No Data	No Data	Sinclair Knight Merz	0.0	Onsite

Other Known Borehole Investigations (Coal Seam Gas (CSG), Petroleum Wells and Other Boreholes)

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH1267-24	<Null>	Sydney Metro Database	Null	Null	0.0	506.8	South-west
MCPT7	Null	Noel Merrick Boreholes Sydney	Null	Null	0.0	530.6	South
CECT9	Borehole	Sydney Metro Database	Null	Null	101.7	552.3	West
CECT10	Borehole	Sydney Metro Database	Null	Null	60.1	554.5	West
GT0000751	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Soil Sample Analysis located at Darlinghurst Public School : existing Primary/Adminis	01/01/2002	0.0	555.8	North-east

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
			tration building : pre				
CPT8	Null	Noel Merrick Boreholes Sydney	Null	Null	0.0	580.2	South
R498_BH8	Borehole	Brisbane St Police Precinct	Department of Public Works	01/04/1976	12.9	585.2	North-west
CCC_BH1	Borehole	Proposed Child Care Centre, 271-279 Bourke St Darlinghurst	City of Sydney	16/02/2012	1.5	593.4	North
SW055_BH01	Borehole	Moore Park Road - Geotechnical Investigation	NetWorks Alliance	11/03/2013	4.8	599.2	South-east
BH01	Borehole	Sydney Metro Database	Null	Null	4.8	599.2	South-east
CCC_BH2	Borehole	Proposed Child Care Centre, 271-279 Bourke St Darlinghurst	City of Sydney	16/02/2012	1.5	601.7	North
CCC_BH7	Borehole	Proposed Child Care Centre, 271-279 Bourke St Darlinghurst	City of Sydney	16/02/2012	1.3	603.5	North
BH2	Borehole	Four cored boreholes drilled to between 11m and 15m. Basic typed logs.	Surry Hills Police Station	01/01/1976	15.2	604.1	North-west
CCC_BH6	Borehole	Proposed Child Care Centre, 271-279 Bourke St Darlinghurst	City of Sydney	16/02/2012	5.0	606.9	North
CCC_BH10	Borehole	Proposed Child Care Centre, 271-279 Bourke St Darlinghurst	City of Sydney	17/02/2012	2.1	611.5	North
R498_BH2	Borehole	Brisbane St Police Precinct	Department of Public Works	01/04/1976	15.2	615.5	North-west
CCC_BH8	Borehole	Proposed Child Care Centre, 271-279 Bourke St Darlinghurst	City of Sydney	17/02/2012	2.3	616.8	North
DAR_BH6	Borehole	Gl: 120 Darlinghurst Rd, Darlinghurst	Hammond Care	12/05/2016	10.3	621.9	North
DAR_BH4	Borehole	Gl: 120 Darlinghurst Rd, Darlinghurst	Hammond Care	11/05/2016	10.1	622.3	North
MBH19	Null	Noel Merrick Boreholes Sydney	Null	Null	0.0	624.1	South
DAR_BH5	Borehole	Gl: 120 Darlinghurst Rd, Darlinghurst	Hammond Care	16/05/2016	8.0	629.5	North
DAR_BH7	Borehole	Gl: 120 Darlinghurst Rd, Darlinghurst	Hammond Care	16/05/2016	2.9	631.7	North
MCPT9	Null	Noel Merrick Boreholes Sydney	Null	Null	0.0	634.8	South
DAR_BH3	Borehole	Gl: 120 Darlinghurst Rd, Darlinghurst	Hammond Care	10/05/2016	9.4	644.7	North
DAR_BH1	Borehole	Gl: 120 Darlinghurst Rd, Darlinghurst	Hammond Care	09/05/2016	9.7	645.0	North
DAR_BH2	Borehole	Gl: 120 Darlinghurst Rd, Darlinghurst	Hammond Care	13/05/2016	10.2	646.4	North
GT0002376	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Push Tubes, Soil Sample Analysis, Core sample analysis located at Report on Site Investigation for Proposed	01/01/1976	0.0	661.9	North-west
R063_ES109A	Borehole	Sydney Metro Database	Null	Null	6.9	673.5	North-west
ES109A	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	673.5	North-west
R063_ES109A	Null	SRT_External_Boreholes	Null	Null	6.9	673.5	North-west
L-063-ES109A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	7.6	673.5	North-west
BH3	Borehole	Four cored boreholes drilled to between 11m and 15m. Basic typed logs.	Surry Hills Police Station	01/01/1976	11.8	673.8	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
RPT	Intrusive Investigation	Four cored boreholes drilled to between 11m and 15m. Basic typed logs.	Surry Hills Police Station	01/01/1976	0.0	677.5	North-west
R498_BH3	Borehole	Brisbane St Police Precinct	Department of Public Works	01/04/1976	11.8	681.5	West
R498_BH4	Borehole	Brisbane St Police Precinct	Department of Public Works	01/04/1976	15.6	683.8	North-west
R498_BH5	Borehole	Brisbane St Police Precinct	Department of Public Works	01/04/1976	13.4	705.8	North-west
BH5	Borehole	Four cored boreholes drilled to between 11m and 15m. Basic typed logs.	Surry Hills Police Station	01/01/1976	13.4	711.2	North-west
MBH29	Null	Noel Merrick Boreholes Sydney	Null	Null	0.0	753.0	South
CCT181	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	45.3	756.6	North
CCT183	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	40.0	759.3	North-east
R498_BH7	Borehole	Brisbane St Police Precinct	Department of Public Works	01/04/1976	11.4	761.2	West
DCP3B	Intrusive Investigation	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.0	765.3	North-east
BH007-I2	Borehole	R392 CBD South East Light Rail	TfNSW	03/12/2013	33.0	770.5	South
R392_BH007-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	03/12/2013	33.0	770.5	South
CPT003-I2	Intrusive Investigation	R392 CBD South East Light Rail	TfNSW	05/12/2013	17.6	779.0	South
R392_CPT003-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	05/12/2013	17.6	779.0	South
AH017-I2	Borehole	R392 CBD South East Light Rail	TfNSW	03/12/2013	3.0	779.6	South
R392_AH017-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	03/12/2013	3.0	779.6	South
R392_BH003-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	11/12/2013	26.9	782.1	South
BH003-I2	Borehole	R392 CBD South East Light Rail	TfNSW	11/12/2013	26.9	782.1	South
CCT185	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	26.0	790.1	North-east
BH008-I2	Borehole	R392 CBD South East Light Rail	TfNSW	17/12/2013	40.0	792.5	South
R392_BH008-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	17/12/2013	40.0	792.5	South
CCT162	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	39.2	797.0	North
CCT188	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	39.9	797.3	North-east
AH018-I2	Borehole	R392 CBD South East Light Rail	TfNSW	03/12/2013	3.0	797.3	South
R392_AH018-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	03/12/2013	3.0	797.3	South
BH6	Borehole	Sydney Metro Database	Null	Null	12.2	797.5	North-west
R392_BH005-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	06/12/2013	22.7	802.2	South
BH005-I2	Borehole	R392 CBD South East Light Rail	TfNSW	06/12/2013	22.7	802.2	South
BH6	Borehole	Four cored boreholes drilled to between 11m and 15m. Basic typed logs.	Surry Hills Police Station	01/01/1976	12.2	803.6	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
CCT182	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	32.1	811.5	North-east
R392_BH004-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	10/12/2013	28.0	820.2	South
BH004-I2	Borehole	R392 CBD South East Light Rail	TfNSW	10/12/2013	28.0	820.2	South
R392_CPT004-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	10/12/2013	13.0	828.4	South
CPT004-I2	Intrusive Investigation	R392 CBD South East Light Rail	TfNSW	10/12/2013	13.0	828.4	South
R392_CPT002-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	06/12/2013	12.4	829.4	South
CPT002-I2	Intrusive Investigation	R392 CBD South East Light Rail	TfNSW	06/12/2013	12.4	829.4	South
CCT184	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	28.1	830.9	North-east
R392_BH006-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	04/12/2013	28.0	834.3	South
BH006-I2	Borehole	R392 CBD South East Light Rail	TfNSW	04/12/2013	28.0	834.3	South
BH002-I2	Borehole	R392 CBD South East Light Rail	TfNSW	12/12/2013	29.9	841.4	South
R392_BH002-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	12/12/2013	29.9	841.4	South
CCT156	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	46.8	849.2	North
CCT155	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	47.9	856.7	North
AH004-I2	Borehole	R392 CBD South East Light Rail	TfNSW	29/11/2013	1.1	868.8	South-west
R392_AH004-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	29/11/2013	1.1	868.8	South-west
CCT187	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	5.6	871.7	North-east
CPT001-I2	Intrusive Investigation	R392 CBD South East Light Rail	TfNSW	09/12/2013	2.9	872.0	South-west
R392_CPT001-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	09/12/2013	2.9	872.0	South-west
CCT186	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.6	877.4	North-east
EBS 0784 1/03/1967	Null	GHD Longmac Boreholes Sydney Desal	Null	Null	0.0	878.0	South-west
CCT151	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	49.6	886.0	North
DCP1	Intrusive Investigation	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.0	887.7	North-east
R392_CPT005-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	28/11/2013	10.0	891.9	South
CPT005-I2	Intrusive Investigation	R392 CBD South East Light Rail	TfNSW	28/11/2013	10.0	891.9	South
DCP2	Intrusive Investigation	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.0	893.2	North-east
DCP3C	Intrusive Investigation	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.0	897.8	North-east
DCP3	Intrusive Investigation	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.0	899.4	North-east

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
DCP3A	Intrusive Investigation	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.0	899.8	North-east
CCT108	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	45.0	902.5	North
CCT108A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	13.8	902.5	North
DCP4	Intrusive Investigation	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.0	906.0	North-east
DCP4A	Intrusive Investigation	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.0	906.7	North-east
CCT116	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	48.3	908.4	North
MBH20	Null	Noel Merrick Boreholes Sydney	Null	Null	0.0	910.3	South
DCP5A	Intrusive Investigation	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.0	911.3	North-east
DCP5	Intrusive Investigation	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.0	911.6	North-east
DCP7	Intrusive Investigation	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.0	913.3	North-east
MCPT12	Null	Noel Merrick Boreholes Sydney	Null	Null	0.0	914.6	South
DCP6	Intrusive Investigation	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.0	916.3	North-east
ES104	Borehole	Sydney Metro Database	Null	Null	30.5	917.8	North
RPT	Intrusive Investigation	5 Cored boreholes along route of railway in Kings Cross area. Report contains lab test results and long sections	Eastern Suburbs Railway Geotechnical Investigation Report for Kings Cross	01/01/1967	0.0	917.8	North-east
CCT136	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	6.5	919.5	North-west
ES104	Borehole	5 Cored boreholes along route of railway in Kings Cross area. Report contains lab test results and long sections	Eastern Suburbs Railway Geotechnical Investigation Report for Kings Cross	01/01/1967	30.3	921.3	North
CCT149	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	47.0	921.8	North
ES101	Borehole	Sydney Metro Database	Null	Null	17.3	928.4	North
ES103	Borehole	Sydney Metro Database	Null	Null	22.7	930.2	North
CCT153	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	2.1	931.9	North
ES101	Borehole	5 Cored boreholes along route of railway in Kings Cross area. Report contains lab test results and long sections	Eastern Suburbs Railway Geotechnical Investigation Report for Kings Cross	01/01/1967	17.1	932.6	North
CCT153C	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	1.5	933.3	North
CCT153A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	42.2	933.3	North

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
CCT153B	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.9	933.3	North
ES103	Borehole	5 Cored boreholes along route of railway in Kings Cross area. Report contains lab test results and long sections	Eastern Suburbs Railway Geotechnical Investigation Report for Kings Cross	01/01/1967	22.6	934.1	North
CCT150A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.6	934.9	North
CCT150B	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.4	935.5	North
CCT150C	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	49.0	936.2	North
CCT152	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.9	940.7	North
ES105	Borehole	Sydney Metro Database	Null	Null	12.4	943.5	North-east
ES105	Borehole	5 Cored boreholes along route of railway in Kings Cross area. Report contains lab test results and long sections	Eastern Suburbs Railway Geotechnical Investigation Report for Kings Cross	01/01/1967	12.3	946.6	North-east
ES102	Borehole	Sydney Metro Database	Null	Null	17.3	946.7	North
ES102	Borehole	5 Cored boreholes along route of railway in Kings Cross area. Report contains lab test results and long sections	Eastern Suburbs Railway Geotechnical Investigation Report for Kings Cross	01/01/1967	17.1	950.7	North
AH003-I2	Borehole	R392 CBD South East Light Rail	TfNSW	06/12/2013	3.0	958.5	South-west
R392_AH003-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	06/12/2013	3.0	958.5	South-west
CCT148	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	44.9	967.8	North
GT0001004	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Soil Sample Analysis located at Glenmore Road Public School : geotechnical investigation	01/01/2001	0.0	973.3	East
BH201	Borehole	Sydney Metro Database	Null	Null	6.7	973.8	North-east
A-068-CCT3	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	22.8	973.9	North-west
A-068-CCT3	Null	Cross City Tunnel	Null	Null	29.8	973.9	North-west
CCT3	Borehole	Sydney Metro Database	Null	Null	29.8	973.9	North-west
A-068-CCT3	Null	Cross City Tunnel	Null	Null	29.8	973.9	North-west
BHX1	Borehole	Sydney Metro Database	Null	Null	6.0	975.3	North-east
CCT143	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	43.2	976.7	North-west
G142	Borehole	Sydney Metro Database	Null	Null	1.5	977.8	North-east
CCT140	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.4	978.6	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R063_SE66	Borehole	Sydney Metro Database	Null	Null	4.6	978.8	West
R063_SE66	Null	SRT_External_Boreholes	Null	Null	4.6	978.8	West
L-063-SE66	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	16.2	978.8	West
G143	Borehole	Sydney Metro Database	Null	Null	2.1	983.2	North-east
BH204	Borehole	Sydney Metro Database	Null	Null	6.0	985.0	North-east
L-063-25	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	10.7	986.4	West
R063_25	Borehole	Sydney Metro Database	Null	Null	6.6	986.4	West
R063_25	Null	SRT_External_Boreholes	Null	Null	6.6	986.4	West
R392_AH005-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	20/11/2013	1.8	987.4	South
AH005-I2	Borehole	R392 CBD South East Light Rail	TfNSW	20/11/2013	1.8	987.4	South
L-063-SE65	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	11.0	991.0	West
R063_SE65	Null	SRT_External_Boreholes	Null	Null	8.6	991.0	West
R063_SE65	Borehole	Sydney Metro Database	Null	Null	8.6	991.0	West
CCT140B	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	12.5	994.7	North-west
G144	Borehole	Sydney Metro Database	Null	Null	2.6	994.9	North-east
CCT140C	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	40.0	995.7	North-west
SW055_BH02	Borehole	Moore Park Road - Geotechnical Investigation	NetWorks Alliance	16/04/2013	3.0	995.8	South-east
BH02	Borehole	Sydney Metro Database	Null	Null	3.0	995.8	South-east
CCT140A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.3	996.1	North-west
CCT142	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	40.0	997.1	North-west
BH202	Borehole	Sydney Metro Database	Null	Null	7.2	1000.8	North-east
GT0003282	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Core sample analysis, Soil Sample Analysis located at Woolloomooloo day nursery centre	01/01/1990	0.0	1002.2	North
PSM7	Borehole	Sydney Metro Database	Null	Null	36.7	1003.7	North-west
ES121	Borehole	Sydney Metro Database	Null	Null	16.2	1006.0	North
G145	Borehole	Sydney Metro Database	Null	Null	2.0	1007.2	North-east
G146	Borehole	Sydney Metro Database	Null	Null	1.9	1007.8	North-east
BH208	Borehole	Sydney Metro Database	Null	Null	22.9	1008.0	North-east
MCPT14B	Null	Noel Merrick Boreholes Sydney	Null	Null	0.0	1008.6	South

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
ES121	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Woolloomoollo	Investigations for Woolloomoollo rail viaduct	01/01/1968	16.1	1010.8	North
BH205	Borehole	Sydney Metro Database	Null	Null	18.9	1011.7	North-east
R063_16A	Borehole	Sydney Metro Database	Null	Null	6.6	1012.0	West
R063_16A	Null	SRT_External_Boreholes	Null	Null	6.6	1012.0	West
L-063-16A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	5.5	1012.0	West
G147	Borehole	Sydney Metro Database	Null	Null	1.9	1013.1	North-east
CCT144	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	43.1	1015.3	North
4784-BH13	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	06/05/1997	6.5	1015.7	West
BH13	Borehole	Sydney Metro Database	Null	Null	6.5	1015.7	West
BH206	Borehole	Sydney Metro Database	Null	Null	6.0	1016.2	North-east
BH14	Borehole	Sydney Metro Database	Null	Null	7.5	1016.6	West
4784-BH14	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	02/05/1997	7.5	1016.6	West
CCT141	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	8.3	1017.9	North-west
BH12	Borehole	Sydney Metro Database	Null	Null	9.4	1018.2	West
4784-BH12	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	24/04/1997	9.4	1018.2	West
CCT141A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.6	1018.3	North-west
R063_117A	Null	SRT_External_Boreholes	Null	Null	12.8	1018.4	West
L-063-117A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	8.2	1018.4	West
R063_117A	Borehole	Sydney Metro Database	Null	Null	12.8	1018.4	West
L-063-116A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	5.8	1018.5	West
R063_116A	Null	SRT_External_Boreholes	Null	Null	7.5	1018.5	West
R063_116A	Borehole	Sydney Metro Database	Null	Null	7.5	1018.5	West
CCT141B	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	47.0	1018.7	North-west
BH11	Borehole	Sydney Metro Database	Null	Null	11.1	1019.7	West
4784-BH11	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	23/04/1997	11.1	1019.7	West
BH203	Borehole	Sydney Metro Database	Null	Null	9.6	1020.3	North-east
R063_ES109	Null	SRT_External_Boreholes	Null	Null	18.7	1020.7	West
R063_ES109	Borehole	Sydney Metro Database	Null	Null	18.7	1020.7	West
L-063-ES109	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	18.4	1020.7	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
ES109	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1020.7	West
L-063-ES164	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	22.6	1022.6	West
R063_ES164	Borehole	Sydney Metro Database	Null	Null	21.6	1022.6	West
ES164	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1022.6	West
R063_ES164	Null	SRT_External_Boreholes	Null	Null	21.6	1022.6	West
ES215	Borehole	Sydney Metro Database	Null	Null	12.7	1023.7	North-east
G148	Borehole	Sydney Metro Database	Null	Null	1.0	1025.2	North-east
R063_B3A	Borehole	Sydney Metro Database	Null	Null	9.7	1026.8	West
R063_B3A	Null	SRT_External_Boreholes	Null	Null	9.7	1026.8	West
L-063-B3A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	1.0	1026.8	West
ES120	Borehole	Sydney Metro Database	Null	Null	14.7	1028.0	North
L-063-ES165	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	21.3	1028.2	West
R063_ES165	Null	SRT_External_Boreholes	Null	Null	21.3	1028.2	West
ES165	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1028.2	West
R063_ES165	Borehole	Sydney Metro Database	Null	Null	21.3	1028.2	West
R063_115A	Borehole	Sydney Metro Database	Null	Null	9.1	1028.8	West
L-063-115A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	12.8	1028.8	West
R063_115A	Null	SRT_External_Boreholes	Null	Null	9.1	1028.8	West
G149	Borehole	Sydney Metro Database	Null	Null	1.0	1029.0	North-east
ES109A	Borehole	Report includes dataset of 31 cored boreholes plans, sections and test data for cut & cover rail tunnels including vertical and inclined holes and angled holes cored from inside existing tunnels.	Martin Place to Town Hall Investigations	01/01/1969	6.9	1029.4	West
BH207	Borehole	Sydney Metro Database	Null	Null	18.8	1029.5	North-east
4784-BH10	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	29/04/1997	11.8	1031.8	West
BH10	Borehole	Sydney Metro Database	Null	Null	11.8	1031.8	West
RPT	Intrusive Investigation	Report includes dataset of 31 cored boreholes plans, sections and test data for cut & cover rail tunnels including vertical and inclined holes and angled holes cored from inside existing tunnels.	Martin Place to Town Hall Investigations	01/01/1969	0.0	1031.8	West
ES120	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wolloomooloo	Investigations for Wolloomooloo rail viaduct	01/01/1968	14.6	1033.1	North
ES109	Borehole	Report includes dataset of 31 cored boreholes plans, sections and test data for cut & cover rail tunnels including vertical and inclined holes and angled holes cored from inside existing tunnels.	Martin Place to Town Hall Investigations	01/01/1969	18.6	1033.4	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
ES164	Borehole	Report includes dataset of 31 cored boreholes plans, sections and test data for cut & cover rail tunnels including vertical and inclined holes and angled holes cored from inside existing tunnels.	Martin Place to Town Hall Investigations	01/01/1969	21.2	1036.1	West
L-063-ES110	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	20.0	1036.1	West
R063_ES110	Null	SRT_External_Boreholes	Null	Null	18.4	1036.1	West
R063_ES110	Borehole	Sydney Metro Database	Null	Null	18.4	1036.1	West
ES110	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1036.1	West
BH209	Borehole	Sydney Metro Database	Null	Null	6.0	1037.5	North-east
AH002-I2	Borehole	R392 CBD South East Light Rail	TfNSW	06/12/2013	3.0	1037.6	South-west
R392_AH002-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	06/12/2013	3.0	1037.6	South-west
R063_20A	Borehole	Sydney Metro Database	Null	Null	5.5	1039.1	West
R063_20A	Null	SRT_External_Boreholes	Null	Null	5.5	1039.1	West
L-063-20A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	6.6	1039.1	West
ES110	Borehole	Report includes dataset of 31 cored boreholes plans, sections and test data for cut & cover rail tunnels including vertical and inclined holes and angled holes cored from inside existing tunnels.	Martin Place to Town Hall Investigations	01/01/1969	18.3	1040.1	West
CCT164	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	25.0	1040.5	North
4784-BH9	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	24/04/1997	11.2	1041.3	West
BH9	Borehole	Sydney Metro Database	Null	Null	11.2	1041.3	West
BH210	Borehole	Sydney Metro Database	Null	Null	20.1	1042.5	North-east
BH2	Borehole	Sydney Metro Database	Null	Null	40.0	1043.1	North-west
BH2	Null	SRT_External_Boreholes	Null	Null	40.0	1043.1	North-west
1	Null	Griffin1962Boreholes_SydneyWater	Null	Null	0.0	1043.4	South
G150	Borehole	Sydney Metro Database	Null	Null	1.4	1043.7	North-east
BH1	Borehole	Sydney Metro Database	Null	Null	40.0	1045.1	North-west
BH1	Null	SRT_External_Boreholes	Null	Null	40.0	1045.1	North-west
A-068-CCT1	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	68.3	1048.4	North-west
A-068-CCT1	Borehole	Cross City Tunnel	Null	Null	30.3	1048.4	North-west
L-063-3A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	6.0	1048.8	West
R063_3A	Borehole	Sydney Metro Database	Null	Null	10.6	1048.8	West
R063_3A	Null	SRT_External_Boreholes	Null	Null	10.6	1048.8	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R063_19A	Null	SRT_External_Boreholes	Null	Null	6.7	1050.0	West
L-063-19A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	9.4	1050.0	West
R063_19A	Borehole	Sydney Metro Database	Null	Null	6.7	1050.0	West
R063_23	Borehole	Sydney Metro Database	Null	Null	9.4	1051.3	West
L-063-23	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	5.2	1051.3	West
R063_23	Null	SRT_External_Boreholes	Null	Null	9.4	1051.3	West
4784-BH7	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	05/05/1997	9.8	1052.2	West
BH7	Borehole	Sydney Metro Database	Null	Null	9.8	1052.2	West
ES169	Borehole	Sydney Metro Database	Null	Null	14.5	1052.7	North-east
BH211	Borehole	Sydney Metro Database	Null	Null	7.0	1052.9	North-east
ES119	Borehole	Sydney Metro Database	Null	Null	23.9	1055.0	North
BH8	Borehole	Sydney Metro Database	Null	Null	12.7	1057.5	West
4784-BH8	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	30/04/1997	12.7	1057.5	West
SRT_BH056	Borehole	Sydney Metro: Central Station Works	Sydney Metro	22/08/2016	40.1	1058.6	West
SRT_BH056	Borehole	Sydney Metro 2015	Sydney Metro	22/08/2016	40.1	1058.6	West
BH6	Borehole	Sydney Metro Database	Null	Null	11.6	1059.0	West
4784-BH6	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	29/04/1997	11.6	1059.0	West
BoreNo4A	Borehole	Sydney Metro Database	Null	Null	9.9	1060.5	West
ES119	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wolloomoolloo	Investigations for Wolloomoolloo rail viaduct	01/01/1968	23.7	1060.6	North
BH5	Borehole	Sydney Metro Database	Null	Null	11.9	1061.4	West
4784-BH5	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	07/05/1997	11.9	1061.4	West
MBH21	Null	Noel Merrick Boreholes Sydney	Null	Null	0.0	1063.5	South
BoreNo22	Borehole	Sydney Metro Database	Null	Null	10.0	1063.5	West
4784-BH4	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	06/05/1997	17.6	1064.9	West
BH4	Borehole	Sydney Metro Database	Null	Null	17.6	1064.9	West
L-063-12A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	6.6	1065.2	West
BoreNo12A	Borehole	Sydney Metro Database	Null	Null	5.8	1065.2	West
R063_12A	Null	SRT_External_Boreholes	Null	Null	5.8	1065.2	West
R063_ES108	Null	SRT_External_Boreholes	Null	Null	21.8	1065.2	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R063_ES108	Borehole	Sydney Metro Database	Null	Null	21.8	1065.2	West
L-063-ES108	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	6.9	1065.2	West
ES108	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1065.2	West
BoreNo110A	Borehole	Sydney Metro Database	Null	Null	9.1	1067.7	West
R063_ES163	Borehole	Sydney Metro Database	Null	Null	39.6	1067.8	West
R063_ES163	Null	SRT_External_Boreholes	Null	Null	39.6	1067.8	West
ES163	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1067.8	West
L-063-ES163	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	21.3	1067.8	West
R227_BH6	Null	SRT_External_Boreholes	Null	Null	12.8	1068.0	West
R227_BH6	Borehole	Sydney Metro Database	Null	Null	12.8	1068.0	West
R063_110A	Null	SRT_External_Boreholes	Null	Null	9.1	1068.5	West
L-063-110A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	7.5	1068.5	West
ES129	Borehole	Report includes dataset of 31 cored boreholes plans, sections and test data for cut & cover rail tunnels including vertical and inclined holes and angled holes cored from inside existing tunnels.	Martin Place to Town Hall Investigations	01/01/1969	20.5	1069.7	West
ES163	Borehole	Report includes dataset of 31 cored boreholes plans, sections and test data for cut & cover rail tunnels including vertical and inclined holes and angled holes cored from inside existing tunnels.	Martin Place to Town Hall Investigations	01/01/1969	39.4	1070.5	West
BH_K10	Borehole	Sydney Metro Database	Null	Null	4.5	1072.8	West
BH2103/25	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	35.1	1073.3	West
T239	Intrusive Investigation	CBD & South East Light Rail Geotech Observations, Route A, Service Trenches	TfNSW	30/01/2014	1.9	1073.4	West
ES206	Borehole	Sydney Metro Database	Null	Null	26.5	1074.6	North-east
BoreNo13A	Borehole	Sydney Metro Database	Null	Null	8.2	1076.0	West
R063_13A	Null	SRT_External_Boreholes	Null	Null	8.2	1076.0	West
L-063-13A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	6.7	1076.0	West
CCT165	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	23.0	1076.4	North
BH4	Null	SRT_External_Boreholes	Null	Null	20.1	1077.7	North-west
R384_BH4	Borehole	132 Elizabeth Street Redevelopment	CBUS Property	11/12/2013	20.1	1077.7	North-west
R384_BH4	Borehole	NWRL_R384_130 Elizabeth St Redevelopment Sydney	CBUS Property	08/12/2013	20.1	1077.7	North-west
ES108	Borehole	Report includes dataset of 31 cored boreholes plans, sections and test data for cut & cover rail tunnels including	Martin Place to Town Hall Investigations	01/01/1969	21.7	1077.8	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
		vertical and inclined holes and angled holes cored from inside existing tunnels.					
R227_BH5	Null	SRT_External_Boreholes	Null	Null	15.0	1078.0	West
R227_BH5	Borehole	Sydney Metro Database	Null	Null	15.0	1078.0	West
CECT8	Borehole	Sydney Metro Database	Null	Null	30.2	1078.0	North-west
4784-BH3	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	30/04/1997	19.6	1078.9	West
BH3	Borehole	Sydney Metro Database	Null	Null	19.6	1078.9	West
R384_BH2	Borehole	NWRL_R384_130 Elizabeth St Redevelopment Sydney	CBUS Property	13/12/2013	19.6	1079.3	North-west
R384_BH2	Borehole	131 Elizabeth Street Redevelopment	CBUS Property	11/12/2013	19.6	1079.3	North-west
BH2	Null	SRT_External_Boreholes	Null	Null	19.6	1079.3	North-west
ES130	Borehole	Sydney Metro Database	Null	Null	43.6	1082.3	North
CPT006-I2	Intrusive Investigation	R392 CBD South East Light Rail	TfNSW	27/11/2013	8.6	1082.5	South
R392_CPT006-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	27/11/2013	8.6	1082.5	South
ES160	Borehole	Sydney Metro Database	Null	Null	34.4	1083.7	North
4784-BH2	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	29/04/1997	18.5	1084.7	West
BH2	Borehole	Sydney Metro Database	Null	Null	18.5	1084.7	West
BH2103/22	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	35.1	1085.5	North-west
BH_K9	Borehole	Sydney Metro Database	Null	Null	24.0	1086.3	West
R063_2A	Null	SRT_External_Boreholes	Null	Null	5.2	1086.4	West
R063_2A	Borehole	Sydney Metro Database	Null	Null	5.2	1086.4	West
L-063-2A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	7.1	1086.4	West
ES130	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Woolloomoollo	Investigations for Woolloomoollo rail viaduct	01/01/1968	33.2	1088.2	North
ES118	Borehole	Sydney Metro Database	Null	Null	28.1	1089.2	North
ES160	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Woolloomoollo	Investigations for Woolloomoollo rail viaduct	01/01/1968	33.0	1090.1	North
R384_BH1	Borehole	NWRL_R384_130 Elizabeth St Redevelopment Sydney	CBUS Property	11/12/2013	20.1	1090.4	North-west
R384_BH1	Borehole	130 Elizabeth Street Redevelopment	CBUS Property	11/12/2013	20.1	1090.4	North-west
BH1	Null	SRT_External_Boreholes	Null	Null	20.1	1090.4	North-west
ES207	Borehole	Sydney Metro Database	Null	Null	23.8	1092.6	North-east
ES170	Borehole	Sydney Metro Database	Null	Null	24.4	1093.8	North-east

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
T262-A	Intrusive Investigation	CBD & South East Light Rail Geotech Observations, Route A, Service Trenches	TfNSW	30/01/2014	1.6	1094.0	West
T262-B	Intrusive Investigation	CBD & South East Light Rail Geotech Observations, Route A, Service Trenches	TfNSW	30/01/2014	0.8	1094.0	West
ES118	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wollomoollo	Investigations for Wollomoollo rail viaduct	01/01/1968	27.9	1095.2	North
GT0002293	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Test Pits, Pocket penetrometer located at Paddington public school site investigation for proposed fire stairs	01/01/1985	0.0	1095.6	South-east
BH_K8	Borehole	Sydney Metro Database	Null	Null	2.7	1099.6	West
4784-BH1	Borehole	NWLR_R306_Central to Goulburn St	Sydney Trains	13/05/1997	8.6	1099.7	West
BH1	Borehole	Sydney Metro Database	Null	Null	8.6	1099.7	West
R063_B1A	Borehole	Sydney Metro Database	Null	Null	12.5	1103.0	West
L-063-B1A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	9.7	1103.0	West
R063_B1A	Null	SRT_External_Boreholes	Null	Null	12.5	1103.0	West
PSM2	Borehole	Sydney Metro Database	Null	Null	5.0	1105.7	North-west
ES122	Borehole	Sydney Metro Database	Null	Null	42.6	1107.1	North
PB_BH11	Null	SRT_External_Boreholes	Null	Null	21.1	1107.8	North-west
PB_BH11	Borehole	Sydney Metro Database	Null	Null	21.1	1107.8	North-west
R227_BH4	Borehole	Sydney Metro Database	Null	Null	15.6	1110.2	West
R227_BH4	Null	SRT_External_Boreholes	Null	Null	15.6	1110.2	West
ES208	Borehole	Sydney Metro Database	Null	Null	31.3	1113.0	North-east
BH_K7	Borehole	Sydney Metro Database	Null	Null	6.0	1113.1	West
ES122	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wollomoollo	Investigations for Wollomoollo rail viaduct	01/01/1968	32.4	1113.7	North
R227_BH3	Borehole	Sydney Metro Database	Null	Null	13.9	1116.3	West
R227_BH3	Null	SRT_External_Boreholes	Null	Null	13.9	1116.3	West
GT0000072	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Plate Load Test (PLT), Point load tests (PLTs) located at Australian Museum, Sydney	01/01/1996	0.0	1116.9	North-west
CCT168	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	16.0	1121.4	North
BH2103/63	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	45.6	1122.3	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
SRT_BH075	Borehole	Sydney Metro: Central Station Works	Sydney Metro	03/07/2016	10.0	1123.4	West
ES167	Borehole	Sydney Metro Database	Null	Null	24.5	1124.9	North
ES168	Borehole	Sydney Metro Database	Null	Null	18.9	1126.2	North
BH_K6	Borehole	Sydney Metro Database	Null	Null	5.4	1126.8	West
ES162	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1127.9	West
L-063-ES162	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	21.6	1127.9	West
R063_ES162	Null	SRT_External_Boreholes	Null	Null	21.4	1127.9	West
R063_ES162	Borehole	Sydney Metro Database	Null	Null	21.4	1127.9	West
ES166	Borehole	Sydney Metro Database	Null	Null	5.9	1128.3	North
ES159	Borehole	Sydney Metro Database	Null	Null	28.2	1128.3	North
SRT_BH063	Borehole	Sydney Metro: Central Station Works	Sydney Metro	11/08/2016	15.1	1128.9	West
ES117	Borehole	Sydney Metro Database	Null	Null	22.2	1129.4	North
CCT138	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	50.3	1130.2	North-west
ES168	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wolloomoollo	Investigations for Wolloomoolloo rail viaduct	01/01/1968	24.3	1131.2	North
ES166	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wolloomoollo	Investigations for Wolloomoolloo rail viaduct	01/01/1968	24.0	1133.0	North
ES159	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wolloomoollo	Investigations for Wolloomoolloo rail viaduct	01/01/1968	26.3	1133.1	North
ES171	Borehole	Sydney Metro Database	Null	Null	31.5	1133.4	North-east
SRT_BH066	Borehole	Sydney Metro: Central Station Works	Sydney Metro	27/06/2016	10.3	1133.9	West
ES117	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wolloomoollo	Investigations for Wolloomoolloo rail viaduct	01/01/1968	22.1	1134.2	North
MCPT16	Null	Noel Merrick Boreholes Sydney	Null	Null	0.0	1134.3	South
BH_K5	Borehole	Sydney Metro Database	Null	Null	24.0	1140.6	West
CCT167	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	14.3	1142.5	North
SRT_BH065	Borehole	Sydney Metro: Central Station Works	Sydney Metro	14/11/2016	2.2	1144.9	West
R116_PSM2	Borehole	Meriton Apartments, 420 Pitt St Sydney	Meriton Apartments Pty Ltd	03/01/2004	8.0	1148.1	West
ES209	Borehole	Sydney Metro Database	Null	Null	34.6	1148.5	North-east
R116_PSM3	Borehole	Meriton Apartments, 420 Pitt St Sydney	Meriton Apartments Pty Ltd	31/03/2005	30.0	1150.0	West
SRT_NDD026	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	07/10/2016	0.7	1150.7	West
SRT_BH062A	Borehole	Sydney Metro: Central Station Works	Sydney Metro	07/11/2016	15.2	1150.9	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R063_B1B	Borehole	Sydney Metro Database	Null	Null	11.7	1151.8	West
L-063-B1B	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	2.5	1151.8	West
R063_B1B	Null	SRT_External_Boreholes	Null	Null	11.7	1151.8	West
SRT_BH062	Borehole	Sydney Metro: Central Station Works	Sydney Metro	27/10/2016	0.8	1152.3	West
PB_BH10	Null	SRT_External_Boreholes	Null	Null	18.1	1154.3	North-west
PB_BH10	Borehole	Sydney Metro Database	Null	Null	18.1	1154.3	North-west
BH_K4	Borehole	Sydney Metro Database	Null	Null	6.9	1155.0	West
SRT_NDD014	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	01/11/2016	0.8	1156.6	West
RPT	Intrusive Investigation	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wollomoolloo	Investigations for Wollomoolloo rail viaduct	01/01/1968	0.0	1157.0	North
R116_DP4	Borehole	420 - 426 Pitt St Sydney	Willing English & Devin	26/01/1970	9.5	1158.4	West
SRT_NDD025	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	14/11/2016	1.2	1159.2	West
SRT_BH076	Borehole	Sydney Metro: Central Station Works	Sydney Metro	22/11/2016	10.0	1160.1	West
SRT_BH076	Borehole	Sydney Metro 2015	Sydney Metro	22/11/2016	10.0	1160.1	West
BH5099(2)-DCP2	Intrusive Investigation	Sydney Metro Database	Null	Null	2.4	1160.3	West
SRT_NDD013	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	01/11/2016	1.7	1160.5	West
R227_BH2	Null	SRT_External_Boreholes	Null	Null	11.1	1161.1	West
R227_BH2	Borehole	Sydney Metro Database	Null	Null	11.1	1161.1	West
SRT_NDD024	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	07/10/2016	0.7	1161.3	West
BH444_1	Null	SRT_External_Boreholes	Null	Null	5.8	1163.0	West
BH444_1	Borehole	Sydney Metro Database	Null	Null	5.8	1163.0	West
AH001-I2	Borehole	R392 CBD South East Light Rail	TfNSW	06/12/2013	3.0	1163.8	West
R392_AH001-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	06/12/2013	3.0	1163.8	West
BH5099_4	Borehole	NWRL_R310_Central_Station Platform 16-17 Olympic Upgrades	Rail Services Australia	04/08/1998	0.7	1164.4	West
BH5099(2)-4	Borehole	Sydney Metro Database	Null	Null	0.7	1164.4	West
BH5099(2)-4	Null	NWRL_R310_Central_Station Platform 16-17 Olympic Upgrades	Rail Services Australia	04/08/1998	0.7	1164.4	West
R116_DP3	Borehole	420 - 426 Pitt St Sydney	Willing English & Devin	26/01/1970	9.2	1164.5	West
CCT201	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	25.5	1165.1	North
R227_BH1	Borehole	Sydney Metro Database	Null	Null	13.8	1166.2	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R227_BH1	Null	SRT_External_Boreholes	Null	Null	13.8	1166.2	West
ES116	Borehole	Sydney Metro Database	Null	Null	28.3	1166.9	North
SRT_NDD027	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	07/10/2016	0.7	1167.2	West
R116_PSM4	Borehole	Meriton Apartments, 420 Pitt St Sydney	Meriton Apartments Pty Ltd	31/03/2005	20.0	1167.4	West
SRT_BH054	Borehole	Sydney Metro: Central Station Works	Sydney Metro	24/10/2016	15.1	1167.6	West
BH_K3	Borehole	Sydney Metro Database	Null	Null	7.7	1168.6	West
CCT203A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	9.4	1168.6	North
CCT203	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	1.0	1168.7	North
BHD5	Borehole	CBD Metro	TfNSW	12/12/2000	29.1	1169.1	West
BHD4	Borehole	CBD Metro	TfNSW	14/12/2000	20.5	1169.1	West
PSM3	Borehole	CBD Metro	TfNSW	31/03/2005	30.0	1169.1	West
PSM4	Borehole	CBD Metro	TfNSW	30/03/2005	20.0	1169.1	West
PSM1	Borehole	CBD Metro	TfNSW	03/01/2004	8.0	1169.1	West
PSM2	Borehole	CBD Metro	TfNSW	03/01/2004	8.0	1169.1	West
SRT_BH039	Borehole	Sydney Metro: Central Station Works	Sydney Metro	04/07/2016	35.0	1169.3	West
SRT_BH039	Borehole	Sydney Metro 2015	Sydney Metro	04/07/2016	35.0	1169.3	West
SRT_BH057	Borehole	Sydney Metro: Central Station Works	Sydney Metro	24/10/2016	15.0	1170.1	West
Null	Null	R116_Meriton 420 Pitt St	Karimbla Construction Services Pty Ltd	Null	0.0	1170.9	West
NWRL_R116	Null	NWRL_R116_Meriton 420 Pitt St	Karimbla Construction Services Pty Ltd	03/01/2004	0.0	1170.9	West
SRT_NDD012	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	01/11/2016	1.8	1171.9	West
ES116	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wollomoollo	Investigations for Wollomoolloo rail viaduct	01/01/1968	28.1	1172.5	North
SRT_NDD011	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	02/11/2016	1.9	1173.4	West
SRT_NDD022	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	12/11/2016	1.6	1173.8	West
SRT_NDD005	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	19/10/2016	2.0	1174.2	West
SRT_NDD005	Intrusive Investigation	Sydney Metro 2015	Sydney Metro	19/10/2016	2.0	1174.2	West
SRT_BH058	Borehole	Sydney Metro: Central Station Works	Sydney Metro	18/10/2016	15.3	1174.3	West
BH2103/39	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	35.3	1174.6	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH5099(2)-2	Null	NWRL_R310_Central_Station Platform 16-17 Olympic Upgrades	Rail Services Australia	05/08/1998	10.3	1174.7	West
BH5099(2)-2	Borehole	Sydney Metro Database	Null	Null	10.3	1174.7	West
BH5099_2	Borehole	NWRL_R310_Central_Station Platform 16-17 Olympic Upgrades	Rail Services Australia	05/08/1998	10.3	1174.7	West
SRT_BH049	Borehole	Sydney Metro: Central Station Works	Sydney Metro	04/07/2016	20.3	1175.7	West
SRT_NDD020	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	14/09/2016	0.1	1175.8	West
A-068-CCT12	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	29.8	1176.1	North-west
A-068-CCT12	Borehole	Cross City Tunnel	Null	Null	69.0	1176.1	North-west
CCT169	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	13.0	1178.2	North
SRT_NDD004	Intrusive Investigation	Sydney Metro 2015	Sydney Metro	17/10/2016	1.7	1178.4	West
SRT_NDD004	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	17/10/2016	1.7	1178.4	West
SRT_BH055	Borehole	Sydney Metro: Central Station Works	Sydney Metro	18/10/2016	15.2	1179.9	West
SRT_NDD003	Intrusive Investigation	Sydney Metro 2015	Sydney Metro	03/07/2016	1.6	1180.2	West
SRT_NDD003	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	03/07/2016	1.6	1180.2	West
R116_PSM1	Borehole	Meriton Apartments, 420 Pitt St Sydney	Meriton Apartments Pty Ltd	03/01/2004	8.0	1180.4	West
SRT_NDD010	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	02/11/2016	0.6	1180.8	West
R116_D5	Borehole	Sydney CBD and Inner Suburbs 132kV Cable Route	Energy Australia	14/12/2000	29.1	1180.9	West
ES210	Borehole	Sydney Metro Database	Null	Null	31.6	1180.9	North-east
BH_K2	Borehole	Sydney Metro Database	Null	Null	23.8	1182.1	West
ES107	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1182.8	West
L-063-ES107	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	18.7	1182.8	West
R063_ES107	Null	SRT_External_Boreholes	Null	Null	20.5	1182.8	West
R063_ES107	Borehole	Sydney Metro Database	Null	Null	20.5	1182.8	West
SRT_BH043	Borehole	Sydney Metro: Central Station Works	Sydney Metro	03/09/2016	4.0	1183.3	West
SRT_BH043	Borehole	Sydney Metro 2015	Sydney Metro	04/09/2016	4.0	1183.3	West
SRT_BH007A	Borehole	Sydney Metro 2015	Sydney Metro	12/07/2016	35.1	1184.8	West
SRT_BH007A	Borehole	Sydney Metro: Central Station Works	Sydney Metro	12/07/2016	35.1	1184.8	West
SRT BH007	Borehole	Sydney Metro 2015	Sydney Metro	Null	19.9	1185.5	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
SRT_NDD009	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	03/09/2016	0.9	1185.9	West
SRT_NDD019	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	14/09/2016	0.2	1186.4	West
BH280	Null	SRT_External_Boreholes	Null	Null	20.2	1186.8	West
BH280	Borehole	NWRL_R219_Sydney Metro Line 1_ CBD Metro - Preliminary Investigation	CBD Metro	16/01/2009	20.2	1186.8	West
BH280	Borehole	Sydney Metro Database	Null	Null	20.2	1186.8	West
SRT_BH051	Borehole	Sydney Metro: Central Station Works	Sydney Metro	19/09/2016	14.6	1189.6	West
GT0002776	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Standard Penetration Test (SPT), Soil Sample Analysis located at Proposed Multipurpose Hall	01/01/1981	0.0	1190.4	South
SRT_NDD018	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	13/09/2016	0.2	1191.6	West
BH_K1	Borehole	Sydney Metro Database	Null	Null	9.0	1191.7	West
R116_DP2	Borehole	420 - 426 Pitt St Sydney	Willing English & Devin	26/01/1970	9.5	1191.8	West
R116_DP1	Borehole	420 - 426 Pitt St Sydney	Willing English & Devin	26/01/1970	14.3	1193.0	West
SRT_NDD006	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	18/10/2016	1.5	1193.3	West
SRT_BH040	Borehole	Sydney Metro 2015	Sydney Metro	03/09/2016	7.2	1195.8	West
SRT_BH040	Borehole	Sydney Metro: Central Station Works	Sydney Metro	03/09/2016	7.2	1195.8	West
Null	Null	NWRL_R310_Central_Station Platform 16-17 Olympic Upgrades	Rail Services Australia	25/08/1998	0.0	1196.3	West
NWRL_R310	Null	NWRL_R310_Central_Station Platform 16-17 Olympic Upgrades	Rail Services Australia	25/08/1998	0.0	1196.3	West
BH5099(2)-3	Null	NWRL_R310_Central_Station Platform 16-17 Olympic Upgrades	Rail Services Australia	04/08/1998	0.8	1198.0	West
BH5099(2)-3	Borehole	Sydney Metro Database	Null	Null	0.8	1198.0	West
BH5099_3	Borehole	NWRL_R310_Central_Station Platform 16-17 Olympic Upgrades	Rail Services Australia	04/08/1998	0.8	1198.0	West
BH281	Null	SRT_External_Boreholes	Null	Null	20.1	1198.2	West
BH281	Borehole	NWRL_R219_Sydney Metro Line 1_ CBD Metro - Preliminary Investigation	CBD Metro	22/01/2009	20.1	1198.2	West
BH281	Borehole	Sydney Metro Database	Null	Null	20.1	1198.2	West
WRC24058	Null	DeptOfCommerceBoreholesSydney	Null	Null	0.0	1198.9	South-east
SRT_NDD008	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	02/11/2016	1.4	1199.0	West
SRT_NDD007	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	03/09/2016	2.0	1199.3	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
GT0000507	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling located at Central Station redevelopment : geotechnical investigation - Geotechnical Engineering	01/01/1994	0.0	1201.3	West
GT0000505	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Supplied material sample analysis located at Central Railway [Stone]: sulfate soundness test results - John Young	01/01/2009	0.0	1201.5	West
SRT_BH041A	Borehole	Sydney Metro 2015	Sydney Metro	17/11/2016	15.1	1201.6	West
SRT_BH041A	Borehole	Sydney Metro: Central Station Works	Sydney Metro	17/11/2016	15.1	1201.6	West
SRT_BH041	Borehole	Sydney Metro: Central Station Works	Sydney Metro	14/11/2016	0.3	1201.8	West
SRT_BH041	Borehole	Sydney Metro 2015	Sydney Metro	14/11/2016	0.3	1201.8	West
BH2103/113	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	34.0	1202.0	West
SRT_BH059	Borehole	Sydney Metro: Central Station Works	Sydney Metro	26/09/2016	14.9	1203.3	West
BH5099(2)-DCP1	Intrusive Investigation	Sydney Metro Database	Null	Null	1.7	1203.3	West
MBH22	Null	Noel Merrick Boreholes Sydney	Null	Null	0.0	1204.1	South
SRT_BH053	Borehole	Sydney Metro: Central Station Works	Sydney Metro	06/07/2016	20.2	1204.8	West
PB_BH09	Null	SRT_External_Boreholes	Null	Null	11.8	1207.0	North-west
PB_BH09	Borehole	Sydney Metro Database	Null	Null	11.8	1207.0	North-west
ES115	Borehole	Sydney Metro Database	Null	Null	26.5	1208.5	North
CECT7	Borehole	Sydney Metro Database	Null	Null	57.3	1208.7	North
ES211	Borehole	Sydney Metro Database	Null	Null	40.6	1210.2	North-east
ES115	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wolloomoollo	Investigations for Wolloomoolloo rail viaduct	01/01/1968	26.4	1213.8	North
CCT170	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	12.9	1216.1	North
BH5099(2)-1	Null	NWRL_R310_Central_Station Platform 16-17 Olympic Upgrades	Rail Services Australia	06/08/1998	9.9	1218.3	West
BH5099(2)-1	Borehole	Sydney Metro Database	Null	Null	9.9	1218.3	West
BH5099_1	Borehole	NWRL_R310_Central_Station Platform 16-17 Olympic Upgrades	Rail Services Australia	06/08/1998	9.9	1218.3	West
SRT_BH060	Borehole	Sydney Metro: Central Station Works	Sydney Metro	02/11/2016	15.2	1219.2	West
SRT_BH060	Borehole	Sydney Metro 2015	Sydney Metro	02/11/2016	15.2	1219.2	West
ES172	Borehole	Sydney Metro Database	Null	Null	38.1	1219.6	North-east

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
A-068-CCT11	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	69.0	1220.3	North-west
A-068-CCT11	Null	Cross City Tunnel	Null	Null	68.3	1220.3	North-west
A-068-CCT11	Borehole	Cross City Tunnel	Null	Null	68.3	1220.3	North-west
CCT172	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	12.0	1230.3	North
CCT171	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	12.0	1240.5	North
SRT_BH048	Borehole	Sydney Metro 2015	Sydney Metro	11/07/2016	20.1	1240.9	West
SRT_BH048	Borehole	Sydney Metro: Central Station Works	Sydney Metro	11/07/2016	20.1	1240.9	West
ES212	Borehole	Sydney Metro Database	Null	Null	39.9	1243.4	North-east
R116_D4	Borehole	Sydney CBD and Inner Suburbs 132kV Cable Route	Energy Australia	14/12/2000	20.5	1243.6	West
SRT_BH052	Borehole	Sydney Metro: Central Station Works	Sydney Metro	18/07/2016	15.3	1244.1	West
T442	Intrusive Investigation	CBD & South East Light Rail Geotech Observations, Route A, Service Trenches	TfNSW	30/01/2014	1.5	1245.9	West
BH943_2	Borehole	Sydney Metro Database	Null	Null	7.2	1247.3	West
ES114	Borehole	Sydney Metro Database	Null	Null	27.4	1248.1	North
BH943_1	Borehole	Sydney Metro Database	Null	Null	6.4	1248.8	West
ES114	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Woolloomoollo	Investigations for Woolloomoolloo rail viaduct	01/01/1968	27.3	1254.0	North
BH943_3	Borehole	Sydney Metro Database	Null	Null	7.8	1254.6	West
CCT174	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	11.4	1261.2	North
ES173	Borehole	Sydney Metro Database	Null	Null	34.7	1266.5	North-east
R462_BHLR1b	Borehole	Prince Alfred Siding	RailCorp	18/03/2011	0.1	1266.5	West
R462_BHLR1a	Borehole	Prince Alfred Siding	RailCorp	18/03/2011	1.9	1266.9	West
R462_BHLR1c	Borehole	Prince Alfred Siding	RailCorp	18/03/2011	0.3	1267.6	West
CPT007-I2	Intrusive Investigation	R392 CBD South East Light Rail	TfNSW	27/11/2013	8.8	1269.0	South
R392_CPT007-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	27/11/2013	8.8	1269.0	South
BH943_7	Borehole	Sydney Metro Database	Null	Null	7.2	1269.5	West
BH943_7	Null	SRT_External_Boreholes	Null	Null	7.2	1269.5	West
BH1267-1	Null	SRT_External_Boreholes	Null	Null	9.3	1270.8	West
BH1267-1	Borehole	Sydney Metro Database	Null	Null	7.9	1270.8	West
L-063-ES161	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	39.6	1272.0	West
R063_ES161	Borehole	Sydney Metro Database	Null	Null	16.9	1272.0	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R063_ES161	Null	SRT_External_Boreholes	Null	Null	16.9	1272.0	West
ES161	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1272.0	West
R126_BH1	Borehole	Proposed Detention Tanks, Central Station	RailCorp	13/12/2006	6.3	1272.8	West
ES161	Borehole	Report includes dataset of 31 cored boreholes plans, sections and test data for cut & cover rail tunnels including vertical and inclined holes and angled holes cored from inside existing tunnels.	Martin Place to Town Hall Investigations	01/01/1969	16.9	1275.4	West
GT0002492	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Soil Sample Analysis, Standard Penetration Test (SPT) located at Roof over manege, Redfern Police Centre	01/01/1994	0.0	1275.5	South-west
SRT_NDD002	Intrusive Investigation	Sydney Metro 2015	Sydney Metro	27/06/2016	2.0	1277.5	West
SRT_NDD002	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	27/06/2016	2.0	1277.5	West
SRT_BH047	Borehole	Sydney Metro: Central Station Works	Sydney Metro	08/08/2016	15.0	1277.8	West
SRT_BH050	Borehole	Sydney Metro: Central Station Works	Sydney Metro	19/07/2016	15.2	1283.0	West
SRT_NDD001	Intrusive Investigation	Sydney Metro 2015	Sydney Metro	24/06/2016	1.9	1283.8	West
SRT_NDD001	Intrusive Investigation	Sydney Metro: Central Station Works	Sydney Metro	24/06/2016	1.9	1283.8	West
BH943_6	Borehole	Sydney Metro Database	Null	Null	7.8	1284.5	West
BH943_4	Borehole	Sydney Metro Database	Null	Null	7.3	1284.9	West
R462_BHSR1	Borehole	Prince Alfred Siding - Substation geotech	RailCorp	18/03/2011	2.9	1285.1	West
ES113	Borehole	Sydney Metro Database	Null	Null	27.6	1286.1	North
CCT135	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	53.6	1286.2	North-west
L-063-ES106	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	21.8	1288.0	West
R063_ES106	Null	SRT_External_Boreholes	Null	Null	16.1	1288.0	West
R063_ES106	Borehole	Sydney Metro Database	Null	Null	16.1	1288.0	West
ES106	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1288.0	West
ES113	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Woolloomoollo	Investigations for Woolloomoollo rail viaduct	01/01/1968	27.4	1291.0	North
R126_BH2	Borehole	Proposed Detention Tanks, Central Station	RailCorp	13/12/2006	6.0	1291.2	West
BH2103/68	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	30.0	1292.5	West
BH272	Borehole	NWRL_R219_Sydney Metro Line 1_ CBD Metro - Preliminary Investigation	CBD Metro	14/01/2009	35.2	1293.1	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH272	Null	SRT_External_Boreholes	Null	Null	35.2	1293.1	West
BH272	Borehole	Sydney Metro Database	Null	Null	35.2	1293.1	West
G154	Borehole	Sydney Metro Database	Null	Null	12.2	1293.2	North-east
CCT176	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	11.3	1296.6	North
BH943_5	Borehole	Sydney Metro Database	Null	Null	7.7	1298.2	West
SRT_BH061	Borehole	Sydney Metro: Central Station Works	Sydney Metro	17/07/2016	7.5	1299.4	West
SRT_BH061A	Borehole	Sydney Metro: Central Station Works	Sydney Metro	23/07/2016	20.0	1299.8	West
R463_DP4	Borehole	Sydney Yard Distribution Substations Haymarket	Worley Parsons Ltd	31/08/2012	5.7	1305.2	West
CCT175	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	10.6	1305.9	North
R463_DP3	Borehole	Sydney Yard Distribution Substations Haymarket	Worley Parsons Ltd	31/08/2012	0.8	1306.0	West
SRT BH006	Borehole	Sydney Metro 2015	Sydney Metro	Null	33.0	1306.9	West
BH2103/21	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	34.9	1307.8	North-west
BH527_1	Null	SRT_External_Boreholes	Null	Null	8.0	1309.4	West
BH527_1	Borehole	Sydney Metro Database	Null	Null	8.0	1309.4	West
CCT137	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	42.0	1311.2	North-west
R507_TP03	Test Pit	Proposed Building Upgrade	NFF Pitt St Pty Ltd	26/02/2014	3.0	1311.6	North-west
G151	Borehole	Sydney Metro Database	Null	Null	23.5	1311.9	North-east
R463_DP2	Borehole	Sydney Yard Distribution Substations Haymarket	Worley Parsons Ltd	31/08/2012	5.5	1313.6	West
R462_BHSS1	Borehole	Prince Alfred Siding - Substation geotech	RailCorp	18/03/2011	5.3	1314.2	West
BH2103/41	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	45.1	1315.6	West
R507_TP02	Test Pit	Proposed Building Upgrade	NFF Pitt St Pty Ltd	26/02/2014	2.0	1315.8	North-west
ES142	Borehole	Sydney Metro Database	Null	Null	11.7	1317.1	North
R463_DP1	Borehole	Sydney Yard Distribution Substations Haymarket	Worley Parsons Ltd	31/08/2012	5.7	1317.4	West
L-063-E53	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	20.5	1317.5	North
R063_E53	Borehole	Sydney Metro Database	Null	Null	2.4	1317.5	North
ES142	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wolloomoollo	Investigations for Wolloomoolloo rail viaduct	01/01/1968	11.6	1322.2	North
ES112	Borehole	Sydney Metro Database	Null	Null	10.1	1322.9	North
BH9	Borehole	CBD Metro	TfNSW	09/05/2001	19.6	1325.0	West
BH8	Borehole	CBD Metro	TfNSW	06/12/1994	18.1	1325.0	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH5	Borehole	CBD Metro	TfNSW	08/12/1994	18.1	1325.0	West
BH10	Borehole	CBD Metro	TfNSW	07/12/1994	10.8	1325.0	West
BH1267-5	Borehole	Sydney Metro Database	Null	Null	9.0	1325.9	West
BH1267-5	Null	SRT_External_Boreholes	Null	Null	9.0	1325.9	West
R462_BHPA2	Borehole	Sydney to Burwood Compressor Houses	RailCorp	18/03/2011	6.8	1326.8	West
BH1267-2	<Null>	Sydney Metro Database	Null	Null	0.0	1327.8	West
ES112	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wollomoolloo	Investigations for Wollomoolloo rail viaduct	01/01/1968	10.3	1329.1	North
BH2103/64	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	36.0	1329.4	West
SRT_BH067	Borehole	Sydney Metro: Sydney Yard Access Bridge (SYAB)	Sydney Metro	24/06/2016	10.1	1330.2	West
SRT_BH067	Borehole	Sydney Metro: Central Station Works	Sydney Metro	23/06/2016	10.1	1330.2	West
SRT_BH067	Borehole	Sydney Metro 2015	Sydney Metro	23/06/2016	10.1	1330.2	West
R462_BHPA1	Borehole	Sydney to Burwood Compressor Houses	RailCorp	18/03/2011	0.8	1332.1	West
SRT_BH064	Borehole	Sydney Metro: Sydney Yard Access Bridge (SYAB)	Sydney Metro	10/06/2016	10.2	1332.3	West
SRT_BH064	Borehole	Sydney Metro 2015	Sydney Metro	24/06/2016	10.2	1332.7	West
SRT_BH064	Borehole	Sydney Metro: Central Station Works	Sydney Metro	24/06/2016	10.2	1332.7	West
R444_BH3	Borehole	NWRL_R444_112-116_BathurstSt	Mars Planning	15/06/2015	50.2	1333.3	North-west
BH3	Null	NWRL_R444_112-116_BathurstSt	Mars Planning	15/06/2015	50.2	1333.3	North-west
BH3	Borehole	Sydney Metro Database	Null	Null	50.2	1333.3	North-west
R462_BHPA3	Borehole	Sydney to Burwood Compressor Houses	RailCorp	18/03/2011	0.5	1335.6	West
R507_TP01	Test Pit	Proposed Building Upgrade	NFF Pitt St Pty Ltd	26/02/2014	2.0	1335.9	North-west
BH1	Borehole	Sydney Metro Database	Null	Null	24.3	1335.9	North-west
BH1	Null	NWRL_R444_112-116_BathurstSt	Mars Planning	11/02/2014	24.3	1335.9	North-west
R444_BH1	Borehole	NWRL_R444_112-116_BathurstSt	Mars Planning	11/02/2014	24.3	1335.9	North-west
R507_BH101	Borehole	Proposed Building Upgrade	NFF Pitt St Pty Ltd	26/02/2014	9.8	1336.5	North-west
CCT177	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	7.0	1337.8	North
R063_ES111	Borehole	Sydney Metro Database	Null	Null	7.6	1338.2	North
ES111	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1338.2	North
L-063-ES111	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	20.3	1338.2	North
Null	Null	NWRL_R444_112-116_BathurstSt	Mars Planning	01/06/2015	0.0	1340.1	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
NWRL_R444	Null	NWRL_R444_112-116_BathurstSt	Mars Planning	01/06/2015	0.0	1340.1	North-west
SRT_BH068	Borehole	Sydney Metro: Sydney Yard Access Bridge (SYAB)	Sydney Metro	29/06/2016	3.4	1340.8	West
SRT_BH068	Borehole	Sydney Metro: Central Station Works	Sydney Metro	29/06/2016	3.4	1341.0	West
SRT_BH068	Borehole	Sydney Metro 2015	Sydney Metro	29/06/2016	3.4	1341.0	West
L-063-E52	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	16.1	1341.6	North
R063_E52	Borehole	Sydney Metro Database	Null	Null	1.2	1341.6	North
R462_BHPA4A	Borehole	Sydney to Burwood Compressor Houses	RailCorp	18/03/2011	1.1	1341.8	West
R462_BHPA5	Borehole	Sydney to Burwood Compressor Houses	RailCorp	18/03/2011	4.7	1342.6	West
R462_BHPA4	Borehole	Sydney to Burwood Compressor Houses	RailCorp	18/03/2011	0.4	1342.7	West
BH01	Borehole	Sydney Yard Overhead Wiring Modernisation	Sydney Trains	01/08/2015	7.9	1343.6	West
Null	Null	NWRL_R417_110-118_Bathurst_St_Redevelopment_Porterhouse_Building	Minka Holdings Pty Ltd	01/04/2014	0.0	1344.2	North-west
NWRL_R417	Null	NWRL_R417_110-118_Bathurst_St_Redevelopment_Porterhouse_Building	Minka Holdings Pty Ltd	01/04/2014	0.0	1344.2	North-west
BH2103/112	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	45.0	1348.2	North-west
BH2	Null	NWRL_R444_112-116_BathurstSt	Mars Planning	14/01/2014	23.9	1351.1	North-west
R444_BH2	Borehole	NWRL_R444_112-116_BathurstSt	Mars Planning	14/01/2014	23.9	1351.1	North-west
BH2	Borehole	Sydney Metro Database	Null	Null	23.9	1351.1	North-west
BH1267-6	<Null>	Sydney Metro Database	Null	Null	0.0	1354.1	West
BH1267-4	<Null>	Sydney Metro Database	Null	Null	0.0	1354.5	West
CCT180	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	4.0	1355.0	North
SRT BH009	Borehole	Sydney Metro 2015	Sydney Metro	Null	35.0	1357.2	North-west
GT0000776	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	located at Dimension sandstone testing, laboratory results / John Young, Geotechnical Engineering - 11 July 1997	01/01/1997	0.0	1357.7	North-west
GT0000777	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	located at Dimension sandstone testing, laboratory results, St. Mary's Cathedral / John Young, Geotechnical Engineeri	01/01/1997	0.0	1358.4	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH1267-7	<Null>	Sydney Metro Database	Null	Null	0.0	1358.5	West
GT0002733	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Supplied material sample analysis located at St. Mary's Cathedral spires : modulus of rupture, Geotechnical Centre -	01/01/1999	0.0	1359.7	North-west
GT0002732	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Soil Sample Analysis, Site Inspection located at St. Mary's Cathedral Geotechnical Investigation - Geotechn	01/01/1997	0.0	1359.7	North-west
ES111	Borehole	Sydney Metro Database	Null	Null	7.6	1360.8	North
CCT134	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	51.0	1361.2	North-west
BH2103/65	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	42.0	1364.9	West
R063_49	Borehole	Sydney Metro Database	Null	Null	6.7	1365.4	North-west
L-063-49	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	6.7	1365.4	North-west
R063_49	Null	SRT_External_Boreholes	Null	Null	6.7	1365.4	North-west
R392_AH006-12	Null	NWRL_R392 CBD South East Light Rail	TfNSW	27/11/2013	3.0	1365.8	South
AH006-12	Borehole	R392 CBD South East Light Rail	TfNSW	27/11/2013	3.0	1365.8	South
ES111	Borehole	18 cored boreholes for the elevated rail viaduct from Kings Cross to Domain through Wollomoolloo	Investigations for Wollomoolloo rail viaduct	01/01/1968	7.6	1367.2	North
BH1267-27	<Null>	Sydney Metro Database	Null	Null	0.0	1368.6	West
T937-978P2	Intrusive Investigation	CBD & South East Light Rail Geotech Observations, Route A, Service Trenches	TfNSW	01/04/2014	1.3	1370.1	North-west
R441_BH02	Borehole	NWRL_R441_115 Bathurst St Redevelopment	Greenland Holdings Group	30/11/2013	25.1	1372.5	North-west
BH02	Borehole	Sydney Metro Database	Null	Null	25.1	1372.5	North-west
P2C_BH2	Borehole	Phase 2 Contamination Assessment, 115 Bathurst St	Greenland Group	30/11/2013	25.1	1372.9	North-west
R462_GHD05	Borehole	PSC 2650 Lee and Chalmers St Substations	RailCorp	13/12/2013	6.0	1374.1	West
BH271	Null	SRT_External_Boreholes	Null	Null	35.1	1375.3	West
BH271	Borehole	NWRL_R219_Sydney Metro Line 1_ CBD Metro - Preliminary Investigation	CBD Metro	08/01/2009	35.1	1375.3	West
BH271	Borehole	Sydney Metro Database	Null	Null	35.1	1375.3	West
L-063-32A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	6.9	1375.3	North-west
R063_32A	Borehole	Sydney Metro Database	Null	Null	10.7	1375.3	North-west
R063_32A	Null	SRT_External_Boreholes	Null	Null	10.7	1375.3	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
SRT_BH069	Borehole	Sydney Metro: Central Station Works	Sydney Metro	22/06/2016	10.3	1376.0	West
SRT_BH069	Borehole	Sydney Metro 2015	Sydney Metro	22/06/2016	10.3	1376.0	West
SRT_BH069	Borehole	Sydney Metro: Sydney Yard Access Bridge (SYAB)	Sydney Metro	21/06/2016	10.3	1376.0	West
BH1267-8	Null	SRT_External_Boreholes	Null	Null	9.3	1378.0	West
BH1267-8	Borehole	Sydney Metro Database	Null	Null	9.3	1378.0	West
BH10	Borehole	Sydney Metro Database	Null	Null	11.8	1380.0	North-west
R441_BH10	Borehole	NWRL_R441_115 Bathurst St Redevelopment	Greenland Holdings Group	07/02/2014	11.8	1380.0	North-west
GT0002725	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Supplied material sample analysis, Soil Sample Analysis located at St Marys Cathedral, western transept [i.e. transep	01/01/1998	0.0	1381.6	North-west
R441_BH07	Borehole	NWRL_R441_115 Bathurst St Redevelopment	Greenland Holdings Group	17/12/2013	29.1	1382.5	North-west
BH07	Borehole	Sydney Metro Database	Null	Null	29.1	1382.5	North-west
P2C_BH7	Borehole	Phase 2 Contamination Assessment, 115 Bathurst St	Greenland Group	17/12/2013	29.1	1382.5	North-west
R441_BH01	Borehole	NWRL_R441_115 Bathurst St Redevelopment	Greenland Holdings Group	28/11/2013	25.1	1383.3	North-west
BH01	Borehole	Sydney Metro Database	Null	Null	25.1	1383.3	North-west
BH03	Borehole	Sydney Metro Database	Null	Null	30.1	1387.2	North-west
R441_BH03	Borehole	NWRL_R441_115 Bathurst St Redevelopment	Greenland Holdings Group	03/12/2013	30.1	1387.2	North-west
GT0000506	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Review existing documentation located at Central Railway Station, Sydney : Central Station precinct : audit of State	01/01/1995	0.0	1388.3	West
R215_BH101	Borehole	Henry Deane Park Project Stage 1	Boulderstone Hornibrook	08/02/1999	14.0	1389.9	West
R441_BH09	Borehole	NWRL_R441_115 Bathurst St Redevelopment	Greenland Holdings Group	06/02/2014	13.3	1392.7	North-west
BH09	Borehole	Sydney Metro Database	Null	Null	13.3	1392.7	North-west
R063_E28	Borehole	Sydney Metro Database	Null	Null	3.4	1395.2	North
L-063-E28	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	2.6	1395.2	North
BH02	Borehole	Sydney Yard Overhead Wiring Modernisation	Sydney Trains	01/08/2015	6.0	1396.1	West
BH2103/111	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	47.4	1398.2	North-west
BH2103/38	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	35.0	1398.4	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R441_BH05	Borehole	NWRL_R441_115 Bathurst St Redevelopment	Greenland Holdings Group	06/12/2013	29.8	1400.1	North-west
BH05	Borehole	Sydney Metro Database	Null	Null	29.8	1400.1	North-west
BH1(66)	Null	SRT_External_Boreholes	Null	Null	15.3	1400.3	North-west
BH1(66)	Borehole	Sydney Metro Database	Null	Null	15.3	1400.3	North-west
Null	Null	NWRL_R168_Defence Plaza 270 Pitt St Sydney	Sydney Metro	01/04/2009	0.0	1400.6	North-west
NWRL_R168	Null	NWRL_R168_Defence Plaza 270 Pitt St Sydney	Sydney Metro	01/04/2009	0.0	1400.6	North-west
BH2103/66	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	35.0	1400.9	West
R215_BH102	Borehole	Henry Deane Park Project Stage 1	Boulderstone Hornibrook	08/02/1999	11.0	1401.5	West
R063_33A	Null	SRT_External_Boreholes	Null	Null	7.1	1401.7	North-west
R063_33A	Borehole	Sydney Metro Database	Null	Null	7.1	1401.7	North-west
L-063-33A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	10.6	1401.7	North-west
R121_980-4	Intrusive Investigation	Sydney Metro Database	Null	Null	1.4	1402.7	West
BH04	Borehole	Sydney Metro Database	Null	Null	21.7	1402.9	North-west
R441_BH04	Borehole	NWRL_R441_115 Bathurst St Redevelopment	Greenland Holdings Group	05/12/2013	21.7	1402.9	North-west
BH2	Borehole	CBD Metro	TfNSW	06/02/2001	23.6	1403.7	North-west
SW055_BH03A	Borehole	Moore Park Road - Geotechnical Investigation	NetWorks Alliance	27/03/2013	2.0	1404.3	South-east
BH03A	Borehole	Sydney Metro Database	Null	Null	2.0	1404.3	South-east
R121_980-4	Borehole	SRA Sydney Yard Relocation	RailCorp	25/08/1986	1.4	1406.0	West
BH1267-25	<Null>	Sydney Metro Database	Null	Null	0.0	1406.7	West
BHD2A	Borehole	CBD Metro	TfNSW	19/03/2001	43.3	1407.0	West
R063_50	Null	SRT_External_Boreholes	Null	Null	6.0	1407.3	North-west
R063_50	Borehole	Sydney Metro Database	Null	Null	6.0	1407.3	North-west
L-063-50	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	10.5	1407.3	North-west
BH03	Borehole	Sydney Metro Database	Null	Null	1.0	1407.5	South-east
R121_980-3	Intrusive Investigation	Sydney Metro Database	Null	Null	12.0	1409.0	West
R441_BH08	Borehole	NWRL_R441_115 Bathurst St Redevelopment	Greenland Holdings Group	03/02/2014	12.2	1410.3	North-west
BH08	Borehole	Sydney Metro Database	Null	Null	12.2	1410.3	North-west
R090_BH1	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	03/09/1992	6.9	1410.7	South-west
BH1267-23	<Null>	Sydney Metro Database	Null	Null	0.0	1412.5	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH1267-26	<Null>	Sydney Metro Database	Null	Null	0.0	1412.6	West
R121_980-3	Borehole	SRA Sydney Yard Relocation	RailCorp	25/08/1986	12.0	1412.9	West
CCT189	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	40.6	1413.2	North-west
R215_BH103	Borehole	Henry Deane Park Project Stage 1	Boulderstone Hornibrook	08/02/1999	12.0	1415.0	West
P2C_BH6	Borehole	Phase 2 Contamination Assessment, 115 Bathurst St	Greenland Group	19/12/2013	24.6	1417.6	North-west
BH4	Borehole	CBD Metro	TfNSW	15/06/2000	0.0	1418.0	West
BH7	Borehole	CBD Metro	TfNSW	17/12/1999	3.4	1418.0	West
BH6	Borehole	CBD Metro	TfNSW	17/12/1999	3.0	1418.0	West
BH2A	Borehole	CBD Metro	TfNSW	19/03/2001	43.3	1418.0	West
BH5	Borehole	CBD Metro	TfNSW	17/12/1999	3.0	1418.0	West
BH3	Borehole	CBD Metro	TfNSW	15/06/2000	10.0	1418.0	West
BH2	Borehole	CBD Metro	TfNSW	14/06/2000	10.0	1418.0	West
BH4	Borehole	CBD Metro	TfNSW	17/12/1999	2.0	1418.0	West
BH2	Borehole	CBD Metro	TfNSW	12/02/2001	23.6	1418.0	West
BH1	Borehole	CBD Metro	TfNSW	13/06/2000	12.1	1418.0	West
BH2	Borehole	CBD Metro	TfNSW	17/12/1999	3.0	1418.0	West
BH1	Borehole	CBD Metro	TfNSW	17/12/1999	3.0	1418.0	West
BH5B	Borehole	CBD Metro	TfNSW	06/07/2000	30.0	1418.0	West
BH5	Borehole	CBD Metro	TfNSW	16/06/2000	0.0	1418.0	West
BH3	Borehole	CBD Metro	TfNSW	17/12/1999	3.0	1418.0	West
BH1	Borehole	CBD Metro	TfNSW	08/01/2001	44.3	1418.0	West
BH06	Borehole	Sydney Metro Database	Null	Null	24.6	1418.1	North-west
R441_BH06	Borehole	NWRL_R441_115 Bathurst St Redevelopment	Greenland Holdings Group	19/12/2013	24.6	1418.1	North-west
R063_34A	Borehole	Sydney Metro Database	Null	Null	6.9	1423.9	North-west
R063_34A	Null	SRT_External_Boreholes	Null	Null	6.9	1423.9	North-west
L-063-34A	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	6.7	1423.9	North-west
R215_BH106	Borehole	Henry Deane Park Project Stage 1	Boulderstone Hornibrook	08/02/1999	12.0	1426.9	West
R215_BH104	Borehole	Henry Deane Park Project Stage 1	Boulderstone Hornibrook	08/02/1999	9.0	1428.9	West
T_GHD6	Borehole	PSC2650- Lee St Substation	TfNSW	14/12/2014	5.0	1429.2	West
EACT10	Null	SRT_External_Boreholes	Null	Null	10.4	1430.5	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
EACT10	Borehole	Sydney Metro Database	Null	Null	10.4	1430.5	West
R121_980-5	Intrusive Investigation	Sydney Metro Database	Null	Null	7.5	1431.3	West
BH2103/75	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	37.5	1431.6	North-west
SRT BH008	Borehole	Sydney Metro 2015	Sydney Metro	Null	42.3	1432.6	North-west
R121_980-2	Intrusive Investigation	Sydney Metro Database	Null	Null	13.5	1433.4	West
R063_E46	Borehole	Sydney Metro Database	Null	Null	1.8	1433.8	North
L-063-E46	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	2.4	1433.8	North
NWRL_R215	Null	NWRL_R215_Henry Dean Park Project Stage 1 Sydney	Boulderstone Hornibrook Pty Ltd	01/02/1999	0.0	1434.1	West
Null	Null	Supplementary Report on Geotechnical Investigation: Henry Dean Park Project Stage 1 Sydney	Boulderstone Hornibrook Pty Ltd	Null	0.0	1434.1	West
BH1267-22	<Null>	Sydney Metro Database	Null	Null	0.0	1434.1	West
R115_BH2	Null	SRT_External_Boreholes	Null	Null	31.4	1435.3	North-west
R115_BH2	Borehole	Sydney Metro Database	Null	Null	31.4	1435.3	North-west
BH2	Borehole	CBD Metro	TfNSW	15/04/2003	31.4	1435.4	North-west
BH1	Borehole	CBD Metro	TfNSW	02/04/2003	30.0	1435.4	North-west
BH3(90)	Borehole	Sydney Metro Database	Null	Null	42.8	1437.0	North-west
BH1267-21	<Null>	Sydney Metro Database	Null	Null	0.0	1437.2	West
R121_980-2	Borehole	SRA Sydney Yard Relocation	RailCorp	25/08/1986	13.5	1437.8	West
R121_980-2	Null	SRT_External_Boreholes	Null	Null	0.0	1438.0	West
R063_E45	Borehole	Sydney Metro Database	Null	Null	3.4	1439.5	North
L-063-E45	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	1.2	1439.5	North
BH2103/40	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	45.1	1442.2	North-west
GT0002151	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Standard Penetration Test (SPT), Soil Sample Analysis located at New South Wales Police Wall of Remembrance	01/01/1999	0.0	1442.6	North
R215_BH105	Borehole	Henry Deane Park Project Stage 1	Boulderstone Hornibrook	08/02/1999	12.0	1442.7	West
BH284	Borehole	Sydney Metro Database	Null	Null	35.2	1443.8	North-west
BH284	Null	SRT_External_Boreholes	Null	Null	35.2	1443.8	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH284	Borehole	NWRL_R219_Sydney Metro Line 1_ CBD Metro - Preliminary Investigation	CBD Metro	20/01/2009	35.2	1443.8	North-west
BH2103/114	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	36.0	1444.2	West
R215_BH107	Borehole	Henry Deane Park Project Stage 1	Baulderstone Hornibrook	08/02/1999	16.0	1445.4	West
BH02	Null	SWCBoreholesSydneyWater	Null	Null	8.0	1445.6	South-west
T_GHD5	Borehole	PSC2650- Lee St Substation	TfNSW	14/12/2014	4.6	1448.0	West
R063_51	Null	SRT_External_Boreholes	Null	Null	6.7	1448.0	North-west
R063_51	Borehole	Sydney Metro Database	Null	Null	6.7	1448.0	North-west
L-063-51	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	6.5	1448.0	North-west
R063_E44	Borehole	Sydney Metro Database	Null	Null	2.6	1450.7	North
L-063-E44	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	1.8	1450.7	North
L-063-E27	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	1.1	1451.9	North
R063_E27	Borehole	Sydney Metro Database	Null	Null	4.0	1451.9	North
R090_BH2	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	03/09/1992	8.0	1451.9	South-west
Null	Null	Sydney Yard Overhead Wiring Modernisation	TfNSW	01/06/2015	0.0	1453.8	West
ST02	Null	Sydney Yard Overhead Wiring Modernisation	TfNSW	01/06/2015	0.0	1453.8	West
T_GHD11	Borehole	PSC2650- Lee St Substation	TfNSW	02/03/2015	5.3	1453.8	West
R215_BH2	Borehole	Henry Deane Park Project Stage 1	Baulderstone Hornibrook	17/04/1998	13.0	1455.5	West
BH02	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	29.1	1456.4	West
L-063-E26	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	3.4	1457.8	North
R063_E26	Borehole	Sydney Metro Database	Null	Null	1.0	1457.8	North
GT0002676	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Standard Penetration Test (SPT) located at South Dowling Street Edge, Moore Park, Preliminary Geotechnical	01/01/1996	0.0	1458.4	South
R121_980-6	Intrusive Investigation	Sydney Metro Database	Null	Null	4.0	1458.5	West
EA-BH10	Borehole	CBD Metro	TfNSW	21/12/2004	42.0	1459.3	West
BH12	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	35.2	1460.1	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH03	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	44.2	1461.0	West
BH15	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	47.1	1461.1	West
R063_52	Borehole	Sydney Metro Database	Null	Null	10.5	1462.0	North-west
L-063-52	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	9.0	1462.0	North-west
R063_52	Null	SRT_External_Boreholes	Null	Null	10.5	1462.0	North-west
R121_980-1	Intrusive Investigation	Sydney Metro Database	Null	Null	9.0	1462.9	West
L-063-E43	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	3.4	1463.9	North
R063_E43	Borehole	Sydney Metro Database	Null	Null	1.1	1463.9	North
R121_980-1	Borehole	SRA Sydney Yard Relocation	RailCorp	27/08/1986	9.0	1467.1	West
R121_980-5	Borehole	SRA Sydney Yard Relocation	RailCorp	25/08/1986	7.5	1467.3	West
R121_980-1	Null	SRT_External_Boreholes	Null	Null	0.0	1468.7	West
R115_BH1	Borehole	Sydney Metro Database	Null	Null	30.0	1471.3	North-west
R115_BH1	Null	SRT_External_Boreholes	Null	Null	30.0	1471.3	North-west
BH03	Null	SWCBoreholesSydneyWater	Null	Null	7.4	1474.7	South-west
R090_BH3	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	03/09/1992	7.4	1477.0	South-west
R515_DP8	Borehole	Proposed Development 163 Castlereagh St Sydney	Grocon Pty Ltd	21/05/2010	9.8	1480.8	North-west
T_GHD1	Borehole	PSC2650- Lee St Substation	TfNSW	14/12/2014	2.2	1482.9	West
R191_BH1	Null	SRT_External_Boreholes	Null	Null	0.0	1485.0	West
Null	Null	NWRL_R426_505GeorgeSt	Mirvac	14/04/2014	0.0	1485.6	North-west
NWRL_R426	Null	NWRL_R426_505GeorgeSt	Mirvac	14/04/2014	0.0	1485.6	North-west
R198_BH7	Borehole	101 Bathurst St	Miller Milston & Ferris	22/04/1982	30.5	1486.2	North-west
R215_BH6	Borehole	Henry Deane Park Project Stage 1	Boulderstone Hornibrook	17/04/1998	12.0	1487.2	West
L-063-53	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	8.3	1488.6	North-west
R063_53	Null	SRT_External_Boreholes	Null	Null	6.5	1488.6	North-west
R063_53	Borehole	Sydney Metro Database	Null	Null	6.5	1488.6	North-west
SYDM17_P90	Borehole	Sydney Metro Database	Null	Null	0.0	1492.8	North-west
T_GHD9	Borehole	PSC2650- Lee St Substation	TfNSW	02/03/2015	5.2	1493.4	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R191_BH2	Null	SRT_External_Boreholes	Null	Null	0.0	1493.9	West
EA-BH14	Borehole	CBD Metro	TfNSW	01/12/2004	38.8	1494.0	West
SRT_BH601	Borehole	Sydney Metro 2015	Sydney Metro	14/10/2016	40.0	1494.5	North-west
R172_689-2	Null	SRT_External_Boreholes	Null	Null	0.0	1495.3	West
R172_689-2	Borehole	Sydney Metro Database	Null	Null	0.0	1495.3	West
R515_DP7	Borehole	Proposed Development 163 Castlereagh St Sydney	Grocon Pty Ltd	21/05/2010	20.2	1496.1	North-west
R172_689-3	Null	SRT_External_Boreholes	Null	Null	0.0	1496.2	West
R172_689-3	Borehole	Sydney Metro Database	Null	Null	0.0	1496.2	West
T_GHD4B	Borehole	PSC2650- Lee St Substation	TfNSW	10/12/2013	9.6	1497.5	West
R515_DP5	Borehole	Proposed Development 163 Castlereagh St Sydney	Grocon Pty Ltd	21/05/2010	18.3	1498.0	North-west
R172_689-1	Null	SRT_External_Boreholes	Null	Null	0.0	1498.4	West
R172_689-1	Borehole	Sydney Metro Database	Null	Null	0.0	1498.4	West
T_GHD4	Borehole	PSC2650- Lee St Substation	TfNSW	14/12/2014	5.2	1500.3	West
R191_BH7	Null	SRT_External_Boreholes	Null	Null	0.0	1500.4	North-west
NWRL_R196	Null	NWRL_R196_101 Bathurst St	Miller Milston & Ferris	19/03/1992	0.0	1500.7	North-west
Null	Null	NWRL_R196_101 Bathurst St	Miller Milston & Ferris	19/03/1992	0.0	1500.7	North-west
R090_BH4	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	03/09/1992	7.5	1501.4	South-west
R197_BH10	Borehole	Proposed Waltons Bond Development, Park St	Wargon Chapman & Associates	19/10/1982	23.8	1502.2	North-west
R090_BH5	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	03/09/1992	7.5	1502.3	West
R090_BH5	Null	SRT_External_Boreholes	Null	Null	7.5	1502.3	West
R191_BH3	Null	SRT_External_Boreholes	Null	Null	0.0	1503.7	North-west
R063_55	Borehole	Sydney Metro Database	Null	Null	8.3	1504.4	North-west
L-063-55	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	8.2	1504.4	North-west
R063_55	Null	SRT_External_Boreholes	Null	Null	8.3	1504.4	North-west
T_GHD10	Borehole	PSC2650- Lee St Substation	TfNSW	02/03/2015	5.7	1506.6	West
R515_DP6	Borehole	Proposed Development 163 Castlereagh St Sydney	Grocon Pty Ltd	21/05/2010	24.4	1506.9	North-west
BH11	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	28.3	1507.7	West
R198_BH10	Borehole	101 Bathurst St	Miller Milston & Ferris	22/04/1982	30.1	1508.4	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R063_54	Null	SRT_External_Boreholes	Null	Null	9.0	1508.9	North-west
L-063-54	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	8.7	1508.9	North-west
R063_54	Borehole	Sydney Metro Database	Null	Null	9.0	1508.9	North-west
R191_BH6	Null	SRT_External_Boreholes	Null	Null	0.0	1509.7	North-west
T_GHD12	Borehole	PSC2650- Lee St Substation	TfNSW	02/03/2015	5.7	1511.5	West
R515_DP4	Borehole	Proposed Development 163 Castlereagh St Sydney	Grocon Pty Ltd	21/05/2010	31.5	1511.7	North-west
CCT131	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	46.1	1513.1	North-west
CECT6	Borehole	Sydney Metro Database	Null	Null	66.2	1514.2	North
BH2103/110	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	36.1	1514.5	North-west
R197_BH3	Borehole	Proposed Waltons Bond Development, Park St	Wargon Chapman & Associates	19/10/1982	19.1	1515.2	North-west
WRC42158	Null	DeptOfCommerceBoreholesSydney	Null	Null	0.0	1515.3	South
R197_BH2	Borehole	Proposed Waltons Bond Development, Park St	Wargon Chapman & Associates	19/10/1982	18.8	1515.4	North-west
BH05	Null	SWCBoreholesSydneyWater	Null	Null	7.5	1516.3	West
R191_BH4	Null	SRT_External_Boreholes	Null	Null	0.0	1516.6	West
SYDM17_12	Borehole	Sydney Metro Database	Null	Null	17.8	1518.2	North-west
BH2	Null	SRT_External_Boreholes	Null	Null	12.1	1521.3	West
BH2	Borehole	Sydney Metro Database	Null	Null	12.1	1521.3	West
R515_DP3	Borehole	Proposed Development 163 Castlereagh St Sydney	Grocon Pty Ltd	21/05/2010	21.6	1521.6	North-west
BH2103/115	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	30.2	1523.5	West
R515_BH1	Borehole	Proposed Development 163 Castlereagh St Sydney	Bovis Lend Lease	18/09/2002	15.7	1524.5	North-west
SYDM17_11	Borehole	Sydney Metro Database	Null	Null	0.0	1524.7	North-west
R191_BH5	Null	SRT_External_Boreholes	Null	Null	0.0	1526.9	North-west
EACT8	Borehole	Sydney Metro Database	Null	Null	13.5	1527.1	West
BH10	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	31.8	1529.2	West
R197_BH1	Borehole	Proposed Waltons Bond Development, Park St	Wargon Chapman & Associates	19/10/1982	18.1	1529.6	North-west
BH1	Null	SRT_External_Boreholes	Null	Null	18.1	1529.7	North-west
BH1	Borehole	Sydney Metro Database	Null	Null	18.1	1529.7	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R063_57	Borehole	Sydney Metro Database	Null	Null	8.2	1534.1	North-west
R063_57	Null	SRT_External_Boreholes	Null	Null	8.2	1534.1	North-west
L-063-57	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	4.7	1534.1	North-west
L-063-56	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	3.4	1538.2	North-west
R063_56	Borehole	Sydney Metro Database	Null	Null	8.7	1538.2	North-west
R063_56	Null	SRT_External_Boreholes	Null	Null	8.7	1538.2	North-west
BH1	Borehole	Sydney Metro Database	Null	Null	12.3	1539.1	West
BH1	Null	SRT_External_Boreholes	Null	Null	12.3	1539.1	West
CBD01	Null	CBD Metro	TfNSW	25/11/2008	0.0	1540.1	North-west
Null	Null	CBD Metro	TfNSW	25/11/2008	0.0	1540.1	North-west
R197_BH4	Borehole	Proposed Waltons Bond Development, Park St	Wargon Chapman & Associates	19/10/1982	17.2	1541.6	North-west
R515_BH2	Borehole	Proposed Development 163 Castlereagh St Sydney	Bovis Lend Lease	18/09/2002	16.0	1542.6	North-west
BH06	Null	SWCBoreholesSydneyWater	Null	Null	8.1	1542.6	West
R090_BH6	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	03/09/1992	8.1	1542.8	West
R090_BH6	Null	SRT_External_Boreholes	Null	Null	8.1	1542.8	West
BH08	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	28.7	1543.2	West
R197_BH101	Borehole	Park Plaza Project	Wargon Chapman & Associates	21/09/1989	20.5	1543.7	North-west
Null	Null	NWRL_R090_Kensington St Sewer Separation	Water Board	01/10/1993	0.0	1545.9	West
NWRL_R090	Null	NWRL_R090_Kensington St Sewer Separation	Water Board	01/10/1993	0.0	1545.9	West
BH3	Borehole	Sydney Metro Database	Null	Null	12.0	1546.1	West
BH3	Null	SRT_External_Boreholes	Null	Null	12.0	1546.1	West
R515_DP1	Borehole	Proposed Development 163 Castlereagh St Sydney	Grocon Pty Ltd	21/05/2010	34.0	1550.5	North-west
BH2	Borehole	Sydney Metro Database	Null	Null	17.0	1551.6	West
BH2	Null	SRT_External_Boreholes	Null	Null	17.0	1551.6	West
RPT	Intrusive Investigation	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	0.0	1551.6	West
BH1	Borehole	Sydney Metro Database	Null	Null	17.0	1555.1	West
BH1	Null	SRT_External_Boreholes	Null	Null	17.0	1555.1	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
A-015-2	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	7.0	1555.7	North-west
R015_BH2	Null	SRT_External_Boreholes	Null	Null	7.0	1555.7	North-west
R015_BH2	Borehole	Sydney Metro Database	Null	Null	7.0	1555.7	North-west
T1491-1522P1	Intrusive Investigation	CBD & South East Light Rail Geotech Observations, Route A, Service Trenches	TfNSW	03/04/2014	0.2	1557.4	North-west
R197_BH5	Borehole	Proposed Waltons Bond Development, Park St	Wargon Chapman & Associates	15/10/1987	15.1	1557.7	North-west
NWRL_R015	Null	NWRL_R015_Hyde Park Barracks Museum Queen Square Geotechnical Site Investigation	The Historical Houses Trust of NSW	01/10/1996	0.0	1558.1	North-west
Null	Null	NWRL_R015_Hyde Park Barracks Museum Queen Square Geotechnical Site Investigation	The Historical Houses Trust of NSW	01/10/1996	0.0	1558.1	North-west
GT0002724	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Site Inspection located at St James Lake : feasibility stage investigation - Geotechnical & Environmental - March 200	01/01/2008	0.0	1559.9	North-west
R063_58	Borehole	Sydney Metro Database	Null	Null	3.4	1564.2	North-west
L-063-58	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	9.8	1564.2	North-west
R063_58	Null	SRT_External_Boreholes	Null	Null	3.4	1564.2	North-west
R233_BH1	<Null>	Sydney Metro Database	Null	Null	0.0	1566.1	West
SRT_CPT612	Null	EO_SI_Scope	Null	Null	0.0	1567.0	West
T1491-1522P2	Intrusive Investigation	CBD & South East Light Rail Geotech Observations, Route A, Service Trenches	TfNSW	03/04/2014	0.2	1567.2	North-west
R113_PPK1	Borehole	Environmental Assessment - Cnr Ultimo Rd and Thomas St	Energy Australia	17/12/1999	3.0	1567.3	West
BH1(77)	Borehole	Sydney Metro Database	Null	Null	4.2	1569.6	West
BH1(77)	Null	SRT_External_Boreholes	Null	Null	4.2	1569.6	West
CPT008-I2	Intrusive Investigation	R392 CBD South East Light Rail	TfNSW	28/11/2013	10.0	1571.1	South
R392_CPT008-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	28/11/2013	10.0	1571.1	South
BH04	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	28.0	1571.8	West
BH1	Borehole	Sydney Metro Database	Null	Null	9.2	1572.9	West
BH07	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	28.0	1573.0	West
R113_PSM4	Borehole	Transgrid Substation Haymarket	Cox Richardson	13/06/2000	10.0	1573.7	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R233_BH3	<Null>	Sydney Metro Database	Null	Null	0.0	1574.3	West
CCT130	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.7	1575.1	North-west
CCT130A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.7	1575.1	North-west
R113_SBH3	Borehole	Environmental Assessment - Cnr Ultimo Rd and Thomas St	Energy Australia	17/12/1999	3.0	1575.4	West
CCT130B	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	27.4	1575.5	North-west
BH4	Borehole	Sydney Metro Database	Null	Null	14.4	1575.9	West
BH4	Null	SRT_External_Boreholes	Null	Null	14.4	1575.9	West
SRT BH010	Borehole	Sydney Metro 2015	Sydney Metro	Null	36.1	1576.6	North-west
BH2(77)	Null	SRT_External_Boreholes	Null	Null	2.3	1578.6	West
BH2(77)	Borehole	Sydney Metro Database	Null	Null	2.3	1578.6	West
BH8(77)	Null	SRT_External_Boreholes	Null	Null	4.1	1579.4	West
BH8(77)	Borehole	Sydney Metro Database	Null	Null	4.1	1579.4	West
EACT7	Borehole	Sydney Metro Database	Null	Null	15.6	1579.4	West
BH273	Borehole	NWRL_R219_Sydney Metro Line 1_ CBD Metro - Preliminary Investigation	CBD Metro	18/12/2008	35.0	1580.9	West
R113_BH1	Borehole	Transgrid Substation Haymarket	Cox Richardson	13/06/2000	12.1	1583.7	West
R113_SBH2	Borehole	Environmental Assessment - Cnr Ultimo Rd and Thomas St	Energy Australia	17/12/1999	3.0	1584.9	West
R113_BH3	Borehole	Transgrid Substation Haymarket	Cox Richardson	13/06/2000	10.0	1585.3	West
R090_BH8	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	03/09/1992	9.0	1588.0	West
SRT_BH046	Borehole	Sydney Metro: Sydney Yard Access Bridge (SYAB)	Sydney Metro	24/06/2016	14.0	1588.5	West
SRT_BH046	Borehole	Sydney Metro 2015	Sydney Metro	24/06/2016	14.0	1588.5	West
BH3(77)	Null	SRT_External_Boreholes	Null	Null	2.7	1589.0	West
BH3(77)	Borehole	Sydney Metro Database	Null	Null	2.7	1589.0	West
BH7(77)	Null	SRT_External_Boreholes	Null	Null	3.8	1589.8	West
BH7(77)	Borehole	Sydney Metro Database	Null	Null	3.8	1589.8	West
R233_BH2	<Null>	Sydney Metro Database	Null	Null	0.0	1590.0	West
BH08	Null	SWCBoreholesSydneyWater	Null	Null	9.0	1590.8	West
R113_SBH5	Borehole	Environmental Assessment - Cnr Ultimo Rd and Thomas St	Energy Australia	17/12/1999	3.0	1592.1	West
R113_SB4	Borehole	Environmental Assessment - Cnr Ultimo Rd and Thomas St	Energy Australia	17/12/1999	2.0	1593.2	West
T1557-SBB	Intrusive Investigation	CBD & South East Light Rail Geotech Observations, Route A, Service Trenches	TfNSW	22/01/2014	0.5	1594.1	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
T1557-SBA	Intrusive Investigation	CBD & South East Light Rail Geotech Observations, Route A, Service Trenches	TfNSW	22/01/2014	2.0	1594.1	North-west
ES127	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1596.0	North-west
L-063-ES127	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	20.6	1596.0	North-west
R063_ES127	Null	SRT_External_Boreholes	Null	Null	20.3	1596.0	North-west
R063_ES127	Borehole	Sydney Metro Database	Null	Null	20.3	1596.0	North-west
R113_BH5	Borehole	Transgrid Substation Haymarket	Cox Richardson	13/06/2000	10.0	1596.4	West
L-063-59	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	12.5	1596.5	North-west
R063_59	Borehole	Sydney Metro Database	Null	Null	4.7	1596.5	North-west
R063_59	Null	SRT_External_Boreholes	Null	Null	4.7	1596.5	North-west
R113_BH5B	Borehole	Transgrid Substation Haymarket	Cox Richardson	13/06/2000	30.0	1597.3	West
R113_SBH6	Borehole	Environmental Assessment - Cnr Ultimo Rd and Thomas St	Energy Australia	17/12/1999	3.0	1597.7	West
BH27	Borehole	Sydney Metro Database	Null	Null	32.3	1598.2	West
BH06	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	41.8	1598.6	West
SRT_BH045	Borehole	Sydney Metro: Sydney Yard Access Bridge (SYAB)	Sydney Metro	27/06/2016	20.1	1599.4	West
SRT_BH045	Borehole	Sydney Metro 2015	Sydney Metro	27/06/2016	20.1	1599.4	West
BH6(77)	Borehole	Sydney Metro Database	Null	Null	2.7	1599.6	West
BH6(77)	Null	SRT_External_Boreholes	Null	Null	2.7	1599.6	West
BH2	Borehole	Sydney Metro Database	Null	Null	7.3	1599.7	West
L-063-61	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	11.7	1602.0	North-west
R063_61	Null	SRT_External_Boreholes	Null	Null	9.8	1602.0	North-west
R063_61	Borehole	Sydney Metro Database	Null	Null	9.8	1602.0	North-west
GT0000544	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Test Pits located at Chippendale, No. 35 Regent Street (BDM) : geotechnical site inspection - Geotechnical Engineeri	01/01/2001	0.0	1602.7	West
GT0000545	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Trenching, Dynamic Cone Penetration (DCP) located at Chippendale, No. 35 Regent Street (BDM) : geotechnical site insp	01/01/2001	0.0	1602.7	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH4A(77)	Null	SRT_External_Boreholes	Null	Null	1.9	1604.8	West
BH4A(77)	Borehole	Sydney Metro Database	Null	Null	1.9	1604.8	West
BH4(77)	Borehole	Sydney Metro Database	Null	Null	2.7	1606.7	West
BH4(77)	Null	SRT_External_Boreholes	Null	Null	2.7	1606.7	West
R113_SBH7	Borehole	Environmental Assessment - Cnr Ultimo Rd and Thomas St	Energy Australia	17/12/1999	3.0	1607.8	West
BH05	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	28.0	1608.5	West
CCT133	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	33.0	1609.0	North-west
R113_BH2	Borehole	Transgrid Substation Haymarket	Cox Richardson	13/06/2000	10.0	1609.6	West
BH5(77)	Null	SRT_External_Boreholes	Null	Null	2.9	1611.0	West
BH5(77)	Borehole	Sydney Metro Database	Null	Null	2.9	1611.0	West
ES127	Borehole	Report includes dataset of 31 cored boreholes plans, sections and test data for cut & cover rail tunnels including vertical and inclined holes and angled holes cored from inside existing tunnels.	Martin Place to Town Hall Investigations	01/01/1969	20.1	1612.5	North-west
T1586-SBB	Intrusive Investigation	CBD & South East Light Rail Geotech Observations, Route A, Service Trenches	TfNSW	22/01/2014	2.0	1614.7	North-west
T1586-SBA	Intrusive Investigation	CBD & South East Light Rail Geotech Observations, Route A, Service Trenches	TfNSW	22/01/2014	1.8	1614.7	North-west
SRT_BH044	Borehole	Sydney Metro 2015	Sydney Metro	23/06/2016	11.8	1614.8	West
SRT_BH044	Borehole	Sydney Metro: Sydney Yard Access Bridge (SYAB)	Sydney Metro	23/06/2016	11.8	1614.8	West
BH07	Null	SWCBoreholesSydneyWater	Null	Null	8.1	1619.0	West
BH03	Borehole	Sydney Yard Overhead Wiring Modernisation	Sydney Trains	02/08/2015	9.0	1619.9	West
R128_BH7	Null	SRT_External_Boreholes	Null	Null	11.6	1620.4	North-west
R128_BH7	Borehole	Sydney Metro Database	Null	Null	11.6	1620.4	North-west
21	Null	Griffin1962Boreholes_SydneyWater	Null	Null	0.0	1621.0	South
R090_BH7	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	03/09/1992	8.1	1621.2	West
BH13	Null	SWCBoreholesSydneyWater	Null	Null	8.1	1623.6	West
EA-BH09	Borehole	Sydney Metro Database	Null	Null	45.2	1624.5	North-west
EA-BH09	Borehole	CBD Metro	TfNSW	25/11/2004	45.2	1624.5	North-west
EA-BH09	Null	SRT_External_Boreholes	Null	Null	45.2	1624.5	North-west
BH3	Borehole	Sydney Metro Database	Null	Null	6.4	1625.7	West
R128_BH6	Null	SRT_External_Boreholes	Null	Null	13.0	1627.2	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R128_BH6	Borehole	Sydney Metro Database	Null	Null	13.0	1627.2	North-west
BH26	Borehole	Sydney Metro Database	Null	Null	35.4	1627.7	West
R220_BHMB2	Borehole	Sydney Metro Database	Null	Null	30.0	1628.6	North-west
R220_BHMB2	Null	SRT_External_Boreholes	Null	Null	30.0	1628.6	North-west
EA-BH10	Null	SRT_External_Boreholes	Null	Null	42.0	1630.4	North-west
EA-BH10	Borehole	Sydney Metro Database	Null	Null	42.0	1630.4	North-west
R220_BHMB4	Borehole	Sydney Metro Database	Null	Null	0.0	1635.2	North-west
R220_BHMB4	Null	SRT_External_Boreholes	Null	Null	0.0	1635.2	North-west
R128_BH5	Null	SRT_External_Boreholes	Null	Null	8.9	1638.5	North-west
R128_BH5	Borehole	Sydney Metro Database	Null	Null	8.9	1638.5	North-west
NSR94	Borehole	New Southern Railway Phase IV Geotechnical Investigation	Transfield Bouyges JV	19/05/1995	14.4	1641.1	South-west
NSR95	Borehole	New Southern Railway Phase IV Geotechnical Investigation	Transfield Bouyges JV	19/05/1995	18.0	1641.1	South-west
BH1	Borehole	Stage 2 East Garden Island	Department of Defence	01/11/2016	18.6	1641.2	North
BH4	Borehole	Sydney Metro Database	Null	Null	6.2	1642.6	West
R128_BHA	Borehole	Sydney Metro Database	Null	Null	18.1	1643.0	North-west
R128_BHA	Null	SRT_External_Boreholes	Null	Null	18.1	1643.0	North-west
L-063-ES126	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	20.6	1644.7	North-west
R063_ES126	Null	SRT_External_Boreholes	Null	Null	20.0	1644.7	North-west
R063_ES126	Borehole	Sydney Metro Database	Null	Null	20.0	1644.7	North-west
ES126	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1644.7	North-west
R090_BH13	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	06/10/1993	8.1	1645.5	West
R157_BHTRANS13	Borehole	Sydney Metro Database	Null	Null	5.5	1646.4	West
R220_BHMB5	Null	SRT_External_Boreholes	Null	Null	0.0	1650.4	North-west
R220_BHMB5	Borehole	Sydney Metro Database	Null	Null	0.0	1650.4	North-west
BH14	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	53.3	1651.4	West
ES123	Borehole	Sydney Metro Database	Null	Null	26.1	1652.9	East
R220_BHMB1	Null	SRT_External_Boreholes	Null	Null	30.0	1653.7	North-west
R220_BHMB1	Borehole	Sydney Metro Database	Null	Null	30.0	1653.7	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
SRT_CPT610	Null	EO_SI_Scope	Null	Null	0.0	1654.6	West
SRT_CPT609	Null	EO_SI_Scope	Null	Null	0.0	1656.4	West
R284_BHG1	Borehole	R284_16-18 Broadway Chippendale	Environmental Investigations	06/10/2011	10.7	1656.4	West
R284_BHG1	Null	NWRL_R284_16-18 Broadway Chippendale	Environmental Investigations	06/10/2011	10.7	1656.4	West
SB201	Null	SRT_External_Boreholes	Null	Null	5.1	1657.6	West
SB201	Borehole	Sydney Metro Database	Null	Null	5.1	1657.6	West
R128_BH4	Borehole	Sydney Metro Database	Null	Null	8.9	1658.0	North-west
R128_BH4	Null	SRT_External_Boreholes	Null	Null	8.9	1658.0	North-west
ES126	Borehole	Report includes dataset of 31 cored boreholes plans, sections and test data for cut & cover rail tunnels including vertical and inclined holes and angled holes cored from inside existing tunnels.	Martin Place to Town Hall Investigations	01/01/1969	19.9	1659.4	North-west
BH10	Null	SWCBoreholesSydneyWater	Null	Null	8.7	1659.7	West
BH7	Borehole	Sydney Metro Database	Null	Null	8.5	1659.8	East
MW01	Borehole	Darling Walk	Null	17/03/2008	5.2	1660.9	North-west
BH09	Null	SWCBoreholesSydneyWater	Null	Null	8.1	1660.9	West
SRT_CPT605	Null	EO_SI_Scope	Null	Null	0.0	1661.6	West
BHA15	Borehole	Wet Weather Overflow Reduction Program	Agility	19/08/2006	10.8	1661.7	North-west
R090_BH10	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	03/09/1992	8.7	1662.4	West
BH13	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	52.1	1662.5	West
GT0000368	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Site Inspection located at Building at 55 Morehead Street, Redfern : preliminary odour assessment - Geotechnical Engi	01/01/2000	0.0	1662.9	South-west
R220_BHMB3	Null	SRT_External_Boreholes	Null	Null	0.0	1663.1	North-west
R220_BHMB3	Borehole	Sydney Metro Database	Null	Null	0.0	1663.1	North-west
SRT_CPT607	Null	EO_SI_Scope	Null	Null	0.0	1663.8	West
BH11	Null	SWCBoreholesSydneyWater	Null	Null	7.4	1663.9	West
BH2	Borehole	Stage 2 East Garden Island	Department of Defence	01/11/2016	16.6	1664.1	North
CCT102	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	3.0	1664.3	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
SRT_CPT608	Null	EO_SI_Scope	Null	Null	0.0	1664.4	West
R090_BH9	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	03/09/1992	8.1	1664.5	West
BH01	Borehole	Factual and Interpretive report containing 14 inclined and vertical boreholes, test results, sections and plans.	Geotechnical Investigation for Institute of Technology, Sydney	01/01/1971	56.4	1664.6	West
BH12	Null	SWCBoreholesSydneyWater	Null	Null	7.3	1666.5	West
CCT102A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	1.5	1667.3	North-west
R090_BH11	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	03/09/1992	7.4	1668.0	West
CCT102B	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	11.7	1668.9	North-west
NBH29	Borehole	Stage 2 - Detailed Site Investigation: Sydney International Conference Exhibition and Entertainment Precinct (SICEEP)	Infrastructure NSW	17/04/2012	5.0	1669.0	West
BH6	Borehole	Sydney Metro Database	Null	Null	9.6	1669.2	East
R090_BH12	Borehole	Sewer / Stormwater Separation Kensington and Regent St Sewers	Sydney Water	06/10/1993	7.2	1670.0	West
SRT_CPT611	Null	EO_SI_Scope	Null	Null	0.0	1670.1	West
CCT103	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	11.3	1670.5	North-west
L-063-B8	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	4.0	1670.8	North
R063_B8	Borehole	Sydney Metro Database	Null	Null	2.5	1670.8	North
R063_B8	Null	SRT_External_Boreholes	Null	Null	2.5	1670.8	North
SRT_CPT606	Null	EO_SI_Scope	Null	Null	0.0	1671.1	West
EACT13	Borehole	Sydney Metro Database	Null	Null	4.5	1672.0	West
R128_BHB	Borehole	Sydney Metro Database	Null	Null	23.0	1672.7	North-west
R128_BHB	Null	SRT_External_Boreholes	Null	Null	23.0	1672.7	North-west
EACT12	Borehole	Sydney Metro Database	Null	Null	18.0	1676.7	West
CCT104	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	11.7	1677.8	North-west
R128_BH2	Null	SRT_External_Boreholes	Null	Null	8.6	1677.8	North-west
R128_BH2	Borehole	Sydney Metro Database	Null	Null	8.6	1677.8	North-west
NBH23	Borehole	Stage 2 - Detailed Site Investigation: Sydney International Conference Exhibition and Entertainment Precinct (SICEEP)	Infrastructure NSW	24/04/2012	3.5	1679.5	West
R251_BH3A	Borehole	Sydney Metro Database	Null	Null	7.0	1680.3	West
R128_BHG	Borehole	Sydney Metro Database	Null	Null	16.5	1681.4	North-west
R128_BHG	Null	SRT_External_Boreholes	Null	Null	16.5	1681.4	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
CCT127	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	22.0	1683.6	North-west
SRT_BH042	Borehole	Sydney Metro: Sydney Yard Access Bridge (SYAB)	Sydney Metro	15/07/2016	25.0	1684.8	West
BH03	Borehole	Darling Walk	Null	13/03/2008	6.2	1685.1	North-west
R193_BH1	Null	SRT_External_Boreholes	Null	Null	0.0	1685.8	North-west
R193_BH1	Borehole	Sydney Metro Database	Null	Null	0.0	1685.8	North-west
R128_BH3	Null	SRT_External_Boreholes	Null	Null	11.6	1686.4	North-west
R128_BH3	Borehole	Sydney Metro Database	Null	Null	11.6	1686.4	North-west
SB213	Borehole	Sydney Metro Database	Null	Null	6.0	1686.7	West
SB213	Null	SRT_External_Boreholes	Null	Null	6.0	1686.7	West
CCT205	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	17.7	1687.9	North-west
BH5	Borehole	Sydney Metro Database	Null	Null	11.6	1689.1	East
BH4	Borehole	Sydney Metro Database	Null	Null	10.4	1689.7	East
EA-BH15	Borehole	Sydney Metro Database	Null	Null	37.5	1691.5	West
R128_BHC	Borehole	Sydney Metro Database	Null	Null	21.2	1692.5	North-west
R128_BHC	Null	SRT_External_Boreholes	Null	Null	21.2	1692.5	North-west
BH05	Borehole	Darling Walk	Null	17/03/2008	4.2	1693.5	North-west
SB212	Null	SRT_External_Boreholes	Null	Null	6.0	1694.3	West
SB212	Borehole	Sydney Metro Database	Null	Null	6.0	1694.3	West
NSR96	Borehole	New Southern Railway Phase IV Geotechnical Investigation	Transfield Bouyges JV	19/05/1995	18.1	1695.2	South-west
R128_BHD	Null	SRT_External_Boreholes	Null	Null	24.0	1696.1	North-west
R128_BHD	Borehole	Sydney Metro Database	Null	Null	24.0	1696.1	North-west
MW405	Borehole	Project GUST	Corrs Chambers Westgarth	20/08/2004	7.0	1696.7	West
EA-BH12	Borehole	Sydney Metro Database	Null	Null	50.9	1696.8	West
BH2103/44	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	35.0	1696.8	North-west
BH01	Borehole	Darling Walk	Null	13/03/2008	10.2	1697.4	North-west
MW608	Borehole	Carlton United Brewery GI	CUB	10/07/2006	5.0	1699.2	West
27_ARL8	Null	SRT_External_Boreholes	Null	Null	21.7	1699.6	South-west
27_ARL8	<Null>	Sydney Metro Database	Null	Null	21.7	1699.6	South-west
MW618	Borehole	Block 2,5 & 9, 102 - 120 Broadway	CUB	11/07/2006	19.0	1700.1	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R157_BHTRANS12	Borehole	Sydney Metro Database	Null	Null	7.0	1700.8	West
R128_BH1	Null	SRT_External_Boreholes	Null	Null	11.6	1701.3	North-west
R128_BH1	Borehole	Sydney Metro Database	Null	Null	11.6	1701.3	North-west
GT0002773	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Supplied material sample analysis located at Sydney Eye Hospital Laboratory sandstone Test Results - 19 March 1998 -	01/01/1998	0.0	1701.6	North-west
MW503	Borehole	GUST Monitoring Well Installation Wellington Street	Corrs Chambers Westgarth	09/10/2005	7.0	1702.6	West
CCT115	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	30.5	1702.7	North-west
R128_BHF	Null	SRT_External_Boreholes	Null	Null	18.0	1704.6	North-west
R128_BHF	Borehole	Sydney Metro Database	Null	Null	18.0	1704.6	North-west
MW404	Borehole	Project GUST	Corrs Chambers Westgarth	20/08/2004	6.8	1705.0	West
BH04	Borehole	Darling Walk	Null	17/03/2008	4.2	1705.4	North-west
MW606	Borehole	Carlton United Brewery GI	CUB	05/07/2006	6.9	1706.9	West
EA-BH14	Borehole	Sydney Metro Database	Null	Null	38.8	1707.0	West
MW502	Borehole	GUST Monitoring Well Installation Wellington Street	Corrs Chambers Westgarth	09/10/2005	6.8	1707.7	West
T1718-SB	Intrusive Investigation	CBD & South East Light Rail Geotech Observations, Route A, Service Trenches	TfNSW	22/01/2014	2.0	1709.8	North-west
CCT105	Null	SRT_External_Boreholes	Null	Null	11.6	1710.4	North-west
CCT105	Borehole	Sydney Metro Database	Null	Null	11.6	1710.4	North-west
CCT105	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	11.6	1710.4	North-west
MW409	Borehole	Project GUST	Corrs Chambers Westgarth	05/10/2004	6.7	1712.0	West
BH128	Borehole	Sydney Metro Database	Null	Null	2.5	1712.3	South-west
BH02	Borehole	Darling Walk	Null	03/03/2008	5.2	1712.8	North-west
WM1/BH1	Borehole	Sydney Metro Database	Null	Null	42.3	1713.4	West
WM1/BH1	Borehole	West Metro	Sydney Metro	Null	42.3	1713.4	West
WM1/BH1	Null	SRT_External_Boreholes	Null	Null	42.3	1713.4	West
WESTMETRO_WM1/BH1	Null	West Metro	Sydney Metro	Null	42.3	1713.4	West
MW403	Borehole	Project GUST	Corrs Chambers Westgarth	20/08/2004	6.1	1715.0	West
MW3	Borehole	Sydney Metro Database	Null	Null	4.5	1715.5	South-west
NSR97	Borehole	New Southern Railway Phase IV Geotechnical Investigation	Transfield Bouyges JV	19/05/1995	13.2	1716.0	South-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R128_BHE	Borehole	Sydney Metro Database	Null	Null	14.5	1716.3	North-west
R128_BHE	Null	SRT_External_Boreholes	Null	Null	14.5	1716.3	North-west
MW408	Borehole	Project GUST	Corrs Chambers Westgarth	05/10/2004	5.5	1716.4	West
EA-BH12	Borehole	CBD Metro	TfNSW	19/01/2005	50.9	1717.1	West
MW504	Borehole	GUST Monitoring Well Installation Wellington Street	Corrs Chambers Westgarth	11/10/2005	8.5	1718.2	West
MW602	Borehole	Carlton United Brewery GI	CUB	30/06/2006	5.6	1718.5	West
R157_BHD4	Borehole	Sydney Metro Database	Null	Null	30.2	1718.8	West
MW406	Borehole	Project GUST	Corrs Chambers Westgarth	01/10/2004	5.8	1719.3	West
EA-BH15	Borehole	CBD Metro	TfNSW	07/12/2004	37.5	1719.3	West
EA-BH11	Borehole	CBD Metro	TfNSW	01/12/2005	41.7	1719.5	West
GW23	Borehole	Sydney Metro Database	Null	Null	1.4	1719.5	North-west
GW23	Null	SRT_External_Boreholes	Null	Null	1.4	1719.5	North-west
MW402	Borehole	Project GUST	Corrs Chambers Westgarth	20/08/2004	6.1	1719.6	West
MW616	Borehole	Block 2,5 & 9, 102 - 120 Broadway	CUB	20/07/2006	21.0	1720.5	West
TP1	Test Pit	Stage 2 East Garden Island	Department of Defence	01/11/2016	1.6	1721.5	North
BH2	Borehole	Sydney Metro Database	Null	Null	22.1	1721.6	East
BH11	Borehole	Darling Walk	Null	13/03/2008	4.3	1721.8	North-west
MW407	Borehole	Project GUST	Corrs Chambers Westgarth	05/10/2004	5.7	1723.1	West
NBH28	Borehole	Stage 2 - Detailed Site Investigation: Sydney International Conference Exhibition and Entertainment Precinct (SICEEP)	Infrastructure NSW	23/04/2012	20.6	1723.4	West
MW501	Borehole	GUST Monitoring Well Installation Wellington Street	Corrs Chambers Westgarth	09/10/2005	6.0	1724.2	West
R505_BH1	Borehole	68-70 Regent St, Chippendale	Monsgrove Developers Pty Ltd	28/11/2013	9.0	1724.7	West
Ardec_E3	Null	SRT_External_Boreholes	Null	Null	9.4	1725.2	North-west
Ardec_E3	Borehole	Sydney Metro Database	Null	Null	9.4	1725.2	North-west
10	Null	Griffin1962Boreholes_SydneyWater	Null	Null	0.0	1725.9	South-west
BH3	Borehole	Sydney Metro Database	Null	Null	13.3	1726.1	East
MW617	Borehole	Block 2,5 & 9, 102 - 120 Broadway	CUB	17/07/2006	19.3	1728.0	West
MW401	Borehole	Project GUST	Corrs Chambers Westgarth	20/08/2004	6.1	1728.2	West
R063_RB1	Null	SRT_External_Boreholes	Null	Null	22.6	1728.2	North-west
RB1	Borehole	Sydney Metro Database	Null	Null	22.6	1728.2	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
L-063-RB1	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	20.1	1728.2	North-west
SRT_BH074	Borehole	Sydney Metro: Sydney Yard Access Bridge (SYAB)	Sydney Metro	15/07/2016	27.0	1729.5	West
NSR80	Borehole	New Southern Railway Phase IV Geotechnical Investigation	Transfield Bouyges JV	19/05/1995	13.1	1729.7	South-west
SRT_BH074A	Borehole	Sydney Metro: Sydney Yard Access Bridge (SYAB)	Sydney Metro	15/07/2016	11.0	1730.0	West
MW607	Borehole	Carlton United Brewery GI	CUB	06/07/2006	20.1	1731.6	West
BH08	Borehole	Darling Walk	Null	17/03/2008	1.6	1731.9	North-west
BH8	Borehole	Sydney Metro Database	Null	Null	11.3	1732.6	East
Ardec_E2	Null	SRT_External_Boreholes	Null	Null	3.8	1732.8	North-west
Ardec_E2	Borehole	Sydney Metro Database	Null	Null	3.8	1732.8	North-west
MW604	Borehole	Carlton United Brewery GI	CUB	30/06/2006	5.8	1733.0	West
SB230	Null	SRT_External_Boreholes	Null	Null	1.2	1733.2	West
SB230	Borehole	Sydney Metro Database	Null	Null	1.2	1733.2	West
A316	Borehole	Sydney Metro Database	Null	Null	18.3	1733.5	North-west
A316	Null	SRT_External_Boreholes	Null	Null	18.3	1733.5	North-west
SB240	Borehole	Sydney Metro Database	Null	Null	6.2	1733.7	West
SB240	Null	SRT_External_Boreholes	Null	Null	6.2	1733.7	West
R505_BH2	Borehole	68-70 Regent St, Chippendale	Monsgrove Developers Pty Ltd	28/11/2013	9.0	1734.0	West
BH06	Borehole	Darling Walk	Null	28/02/2008	8.2	1734.4	North-west
CPT009-I2	Intrusive Investigation	R392 CBD South East Light Rail	TfNSW	06/12/2013	10.0	1735.3	South
R392_CPT009-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	06/12/2013	10.0	1735.3	South
BH113	Borehole	Sydney Metro Database	Null	Null	2.0	1736.3	South-west
BH125	Borehole	Sydney Metro Database	Null	Null	2.5	1736.8	South-west
CCT17	Borehole	Sydney Metro Database	Null	Null	24.3	1737.2	North-west
CCT17	Null	SRT_External_Boreholes	Null	Null	24.3	1737.2	North-west
MW02	Borehole	Darling Walk	Null	11/03/2008	5.2	1737.3	North-west
GIBH03/GIMW03	Null	Defence UST	Null	12/05/2011	3.5	1737.8	North-east
GIBH03/GIMW03	Borehole	Defence UST	Department of Defence	12/05/2011	3.5	1737.8	North-east
Ardec_D44	Null	SRT_External_Boreholes	Null	Null	4.9	1738.9	North-west
Ardec_D44	Borehole	Sydney Metro Database	Null	Null	4.9	1738.9	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
MW214A	Borehole	Project GUST	Corrs Chambers Westgarth	Null	0.0	1739.0	West
BH117	Borehole	Sydney Metro Database	Null	Null	1.5	1740.3	South-west
MW609	Borehole	Carlton United Brewery GI	CUB	10/07/2006	20.0	1740.5	West
A315	Borehole	Sydney Metro Database	Null	Null	21.2	1740.8	North-west
A315	Null	SRT_External_Boreholes	Null	Null	21.2	1740.8	North-west
MW603	Borehole	Carlton United Brewery GI	CUB	29/06/2006	5.5	1741.7	West
RB2	Borehole	Sydney Metro Database	Null	Null	21.3	1742.2	North-west
R063_RB2	Null	SRT_External_Boreholes	Null	Null	21.3	1742.2	North-west
L-063-RB2	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	22.2	1742.2	North-west
GT0002784	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Standard Penetration Test (SPT), Soil Sample Analysis, Point load tests (PLTs) located at Sydney Institute,	01/01/2003	0.0	1743.2	West
A317	Null	SRT_External_Boreholes	Null	Null	13.8	1744.2	North-west
A317	Borehole	Sydney Metro Database	Null	Null	13.8	1744.2	North-west
BH1	Borehole	Sydney Metro Database	Null	Null	11.9	1744.4	East
SB241	Null	SRT_External_Boreholes	Null	Null	5.8	1745.3	West
SB241	Borehole	Sydney Metro Database	Null	Null	5.8	1745.3	West
GIBH02/GIMW02	Null	Defence UST	Null	12/05/2011	4.0	1745.9	North-east
GIBH02/GIMW02	Borehole	Defence UST	Department of Defence	12/05/2011	4.0	1745.9	North-east
CCTI25	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	12.8	1746.3	North-west
RB4	Borehole	Sydney Metro Database	Null	Null	22.2	1746.5	North-west
L-063-RB4	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	19.8	1746.5	North-west
R063_RB4	Null	SRT_External_Boreholes	Null	Null	22.2	1746.5	North-west
R157_BHD11	Borehole	Sydney Metro Database	Null	Null	36.0	1751.1	West
SB215b	Borehole	Sydney Metro Database	Null	Null	5.5	1751.7	West
GIBH01/GIMW01	Null	Defence UST	Null	13/05/2011	4.0	1751.7	North-east
GIBH01/GIMW01	Borehole	Defence UST	Department of Defence	13/05/2011	4.0	1751.7	North-east
BH09	Borehole	Darling Walk	Null	26/02/2008	7.0	1752.2	North-west
R063_RB3	Null	SRT_External_Boreholes	Null	Null	20.1	1752.8	North-west
L-063-RB3	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	21.0	1752.8	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
RB3	Borehole	Sydney Metro Database	Null	Null	20.1	1752.8	North-west
NSR81	Borehole	New Southern Railway Phase IV Geotechnical Investigation	Transfield Bouyges JV	19/05/1995	15.2	1753.3	South-west
R009_BH1	Null	SRT_External_Boreholes	Null	Null	6.1	1753.7	North-west
A-009-BH1	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	6.1	1753.7	North-west
R009_BH1	Borehole	Sydney Metro Database	Null	Null	6.1	1753.7	North-west
BH10	Borehole	Darling Walk	Null	27/02/2008	3.3	1754.0	North-west
BH32	Borehole	Darling Walk	Null	12/03/2008	4.9	1754.5	North-west
R505_BH3	Borehole	68-70 Regent St, Chippendale	Monsgrove Developers Pty Ltd	28/11/2013	9.0	1755.5	West
BH126	Borehole	Sydney Metro Database	Null	Null	4.0	1755.5	South-west
BH1(90)	Borehole	Sydney Metro Database	Null	Null	18.7	1757.7	North-west
BH1(90)	Null	SRT_External_Boreholes	Null	Null	18.7	1757.7	North-west
Ardec_E1	Null	SRT_External_Boreholes	Null	Null	10.7	1757.8	North-west
Ardec_E1	Borehole	Sydney Metro Database	Null	Null	10.7	1757.8	North-west
R063_ES129	Borehole	Sydney Metro Database	Null	Null	20.6	1759.1	North-west
R063_ES128	Borehole	Sydney Metro Database	Null	Null	20.6	1759.1	North-west
L-063-ES129	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	21.4	1759.1	North-west
L-063-ES128	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	16.9	1759.1	North-west
ES128	Null	NWRL_R063_Eastern Suburbs Railway	Department of Railways NSW	17/10/1967	0.0	1759.1	North-west
R063_ES128	Null	SRT_External_Boreholes	Null	Null	20.6	1759.1	North-west
R063_ES129	Null	SRT_External_Boreholes	Null	Null	20.6	1759.1	North-west
R063_RB5	Null	SRT_External_Boreholes	Null	Null	21.0	1761.2	North-west
L-063-RB5	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	8.6	1761.2	North-west
RB5	Borehole	Sydney Metro Database	Null	Null	21.0	1761.2	North-west
MW04	Borehole	Darling Walk	Null	27/02/2008	5.5	1762.1	North-west
BH07	Borehole	Darling Walk	Null	12/03/2008	4.2	1762.7	North-west
A313	Null	SRT_External_Boreholes	Null	Null	20.6	1763.6	North-west
A313	Borehole	Sydney Metro Database	Null	Null	20.6	1763.6	North-west
G1	Null	DeptOfCommerceBoreholesSydney	Null	Null	0.0	1764.3	South
MW601	Borehole	Carlton United Brewery GI	CUB	29/06/2006	6.3	1764.4	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH124	Borehole	Sydney Metro Database	Null	Null	2.0	1765.1	South-west
SB242	Borehole	Sydney Metro Database	Null	Null	5.5	1766.8	West
CCT206	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	24.7	1767.2	North-west
CCT206A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	24.7	1767.2	North-west
13	Null	Griffin1962Boreholes_SydneyWater	Null	Null	0.0	1767.5	South
BH127	Borehole	Sydney Metro Database	Null	Null	3.0	1767.5	South-west
BH107	Borehole	Sydney Metro Database	Null	Null	2.0	1768.6	South-west
MW217A	Borehole	Project GUST	Corrs Chambers Westgarth	Null	0.0	1770.3	West
BH8	Null	SRT_External_Boreholes	Null	Null	51.9	1770.6	North-west
BH8	Borehole	Sydney Metro Database	Null	Null	51.9	1770.6	North-west
SB217	Null	SRT_External_Boreholes	Null	Null	6.3	1771.4	West
SB217	Borehole	Sydney Metro Database	Null	Null	6.3	1771.4	West
CCT114	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	18.0	1771.8	North-west
BH19	Borehole	Darling Walk	Null	11/03/2008	1.7	1772.3	North-west
RB6	Borehole	Sydney Metro Database	Null	Null	19.8	1773.0	North-west
R063_RB6	Null	SRT_External_Boreholes	Null	Null	19.8	1773.0	North-west
L-063-RB6	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	4.6	1773.0	North-west
MW605	Borehole	Carlton United Brewery GI	CUB	28/06/2006	5.6	1773.6	West
MW2	Borehole	Sydney Metro Database	Null	Null	4.7	1773.6	South-west
ES128	Borehole	Report includes dataset of 31 cored boreholes plans, sections and test data for cut & cover rail tunnels including vertical and inclined holes and angled holes cored from inside existing tunnels.	Martin Place to Town Hall Investigations	01/01/1969	20.6	1773.8	North-west
NBH18	Borehole	Stage 2 - Detailed Site Investigation: Sydney International Conference Exhibition and Entertainment Precinct (SICEEP)	Infrastructure NSW	24/04/2012	4.5	1774.0	West
MW03	Borehole	Darling Walk	Null	27/02/2008	4.6	1774.2	North-west
BH13	Borehole	Darling Walk	Null	28/02/2008	3.6	1775.5	North-west
R525_BH2	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	25.7	1776.0	North-west
BH111	Borehole	Sydney Metro Database	Null	Null	2.5	1776.7	South-west
CCT124A	Null	SRT_External_Boreholes	Null	Null	40.5	1779.4	North-west
CCT124A	Borehole	Sydney Metro Database	Null	Null	40.5	1779.4	North-west
R525_BH19	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	22.6	1779.5	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
CCTI24A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	28.6	1779.5	North-west
CCTI24	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	3.5	1779.5	North-west
CCT107	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	13.5	1779.7	North-west
Ardec_D38	Null	SRT_External_Boreholes	Null	Null	7.0	1783.3	North-west
Ardec_D38	Borehole	Sydney Metro Database	Null	Null	7.0	1783.3	North-west
BH2(96)	Null	SRT_External_Boreholes	Null	Null	17.0	1783.4	North-west
BH2(96)	Borehole	Sydney Metro Database	Null	Null	17.0	1783.4	North-west
R525_BH9	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	31.7	1783.5	North-west
CCT110A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	2.4	1783.8	North-west
EA-BH16	Borehole	Sydney Metro Database	Null	Null	39.1	1785.0	West
Ardec_D29	Borehole	Sydney Metro Database	Null	Null	3.7	1785.2	North-west
BH1(96)	Null	SRT_External_Boreholes	Null	Null	17.0	1785.4	North-west
BH1(96)	Borehole	Sydney Metro Database	Null	Null	17.0	1785.4	North-west
EA-BH16	Borehole	CBD Metro	TfNSW	15/08/2005	39.1	1786.4	West
A312	Null	SRT_External_Boreholes	Null	Null	4.0	1787.1	North-west
A312	Borehole	Sydney Metro Database	Null	Null	4.0	1787.1	North-west
BH7	Borehole	Sydney Metro Database	Null	Null	48.0	1789.0	North-west
BH7	Null	SRT_External_Boreholes	Null	Null	48.0	1789.0	North-west
CCT110	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	1.7	1789.3	North-west
R525_BH3	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	17.4	1789.7	North-west
R525_BH10	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	27.0	1790.4	North-west
BH12	Borehole	Darling Walk	Null	28/02/2008	3.6	1790.5	North-west
2	Null	Griffin1962Boreholes_SydneyWater	Null	Null	0.0	1790.8	South
BH3(96)	Borehole	Sydney Metro Database	Null	Null	16.9	1791.3	North-west
BH3(96)	Null	SRT_External_Boreholes	Null	Null	16.9	1791.3	North-west
R525_BH11	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	24.5	1791.6	North-west
BH2	Borehole	CBD Metro	TfNSW	12/01/2005	10.0	1791.9	North-west
BH1	Borehole	CBD Metro	TfNSW	11/11/2005	10.0	1791.9	North-west
SB243	Borehole	Sydney Metro Database	Null	Null	6.0	1792.0	West
BH123	Borehole	Sydney Metro Database	Null	Null	2.1	1792.0	South-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
EA-BH13	Borehole	CBD Metro	TfNSW	22/08/2005	30.0	1792.0	West
EA-BH17	Borehole	CBD Metro	TfNSW	17/08/2005	44.0	1792.0	West
EA-BH17	Borehole	Sydney Metro Database	Null	Null	44.0	1792.1	West
EA-BH13	Borehole	Sydney Metro Database	Null	Null	30.0	1792.4	West
BH31	Borehole	Darling Walk	Null	12/03/2008	4.9	1792.8	North-west
CCT111	Borehole	Sydney Metro Database	Null	Null	13.0	1793.4	North-west
CCT111	Null	SRT_External_Boreholes	Null	Null	13.0	1793.4	North-west
CCT111	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	1300.0	1793.6	North-west
Ardec_D36	Borehole	Sydney Metro Database	Null	Null	11.3	1793.8	North-west
Ardec_D36	Null	SRT_External_Boreholes	Null	Null	11.3	1793.8	North-west
BH2103/37	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	45.0	1794.9	North-west
CCT122	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	11.8	1795.3	North-west
NBH24	Borehole	Stage 2 - Detailed Site Investigation: Sydney International Conference Exhibition and Entertainment Precinct (SICEEP)	Infrastructure NSW	24/04/2012	3.5	1795.6	West
SB245	Borehole	Sydney Metro Database	Null	Null	5.1	1795.9	West
SB225	Null	SRT_External_Boreholes	Null	Null	4.2	1796.4	West
SB225	Borehole	Sydney Metro Database	Null	Null	4.2	1796.4	West
BH106	Borehole	Sydney Metro Database	Null	Null	2.0	1796.7	South-west
R525_BH5	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	26.6	1797.1	North-west
BH112	Borehole	Sydney Metro Database	Null	Null	2.0	1797.9	South-west
BH110	Borehole	Sydney Metro Database	Null	Null	2.5	1798.5	South-west
CCT113	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	16.8	1799.6	North-west
Ardec_D37	Null	SRT_External_Boreholes	Null	Null	15.4	1799.7	North-west
Ardec_D37	Borehole	Sydney Metro Database	Null	Null	15.4	1799.7	North-west
CCT120A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	13.0	1799.9	North-west
CCT120	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	1.3	1799.9	North-west
BH116	Borehole	Sydney Metro Database	Null	Null	2.0	1801.2	South-west
BH3	Borehole	Stage 2 East Garden Island	Department of Defence	01/11/2016	11.4	1801.6	North
CCT123	Null	SRT_External_Boreholes	Null	Null	38.7	1801.8	North-west
CCT123	Borehole	Sydney Metro Database	Null	Null	38.7	1801.8	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
CCT123	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	38.7	1802.1	North-west
R525_BH13	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	25.1	1802.5	North-west
27_NSR26	Null	SRT_External_Boreholes	Null	Null	16.0	1803.1	South-west
NSR26	Borehole	Sydney Metro Database	Null	Null	16.0	1803.1	South-west
MW310A	Borehole	Project GUST	Corrs Chambers Westgarth	Null	0.0	1803.1	West
CCT208	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	17.7	1803.2	North-west
R525_BH12	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	14.4	1804.4	North-west
Ardec_D20	Borehole	Sydney Metro Database	Null	Null	4.8	1804.6	North-west
A311	Borehole	Sydney Metro Database	Null	Null	12.3	1804.9	North-west
A311	Null	SRT_External_Boreholes	Null	Null	12.3	1804.9	North-west
BH112	Null	SRT_External_Boreholes	Null	Null	5.4	1806.0	North-west
BH112	Borehole	Sydney Metro Database	Null	Null	5.4	1806.0	North-west
NBH22	Borehole	Stage 2 - Detailed Site Investigation: Sydney International Conference Exhibition and Entertainment Precinct (SICEEP)	Infrastructure NSW	24/04/2012	4.5	1807.3	West
R525_BH8	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	25.8	1807.3	North-west
CCT7	Borehole	Sydney Metro Database	Null	Null	18.4	1808.0	North-west
BH20	Borehole	Darling Walk	Null	11/03/2008	5.8	1808.6	North-west
BH8(90)	Borehole	Sydney Metro Database	Null	Null	11.4	1808.8	North-west
BH118	Borehole	Sydney Metro Database	Null	Null	1.5	1809.3	South-west
BH122	Borehole	Sydney Metro Database	Null	Null	2.0	1810.1	South-west
CCT112	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	13.9	1810.2	North-west
NBH17	Borehole	Stage 2 - Detailed Site Investigation: Sydney International Conference Exhibition and Entertainment Precinct (SICEEP)	Infrastructure NSW	27/04/2012	18.0	1810.3	West
MW310B	Borehole	Carlton United Brewery GI	CUB	29/06/2006	1.2	1810.6	West
BH120	Borehole	Sydney Metro Database	Null	Null	2.5	1811.2	South-west
BH121	Borehole	Sydney Metro Database	Null	Null	1.5	1812.3	South-west
B38	Borehole	Sydney Metro Database	Null	Null	11.0	1812.4	North-west
A-019-BH2	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	20.3	1812.7	North
R019_BH2	Borehole	Sydney Metro Database	Null	Null	20.3	1812.7	North
R019_BH2	Null	SRT_External_Boreholes	Null	Null	20.3	1812.7	North

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R525_BH4	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	17.0	1813.0	North-west
R008_BH1	Borehole	Sydney Metro Database	Null	Null	9.1	1813.2	North-west
R008_BH1	Null	SRT_External_Boreholes	Null	Null	9.1	1813.2	North-west
A-008-BH1	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	9.1	1813.2	North-west
BH109	Borehole	Sydney Metro Database	Null	Null	2.0	1813.3	South-west
CCT119	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.7	1813.7	North-west
MW05	Borehole	Darling Walk	Null	14/03/2008	4.0	1814.2	North-west
CCT121	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	10.1	1814.5	North-west
R525_BH1	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	25.4	1815.1	North-west
A304	Borehole	Sydney Metro Database	Null	Null	12.3	1817.0	North-west
CCT119A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	1305.0	1817.6	North-west
BH14	Borehole	Darling Walk	Null	12/03/2008	5.1	1818.3	North-west
MBH23	Null	Noel Merrick Boreholes Sydney	Null	Null	0.0	1819.4	South
FP50	Borehole	Sydney Metro Database	Null	Null	2.6	1820.6	North-west
A1	Null	SRT_External_Boreholes	Null	Null	0.0	1821.1	North-west
A1	Borehole	Sydney Metro Database	Null	Null	0.0	1821.1	North-west
R525_BH7	Borehole	MLC Building	Civil & Civic Pty Ltd	28/03/1973	20.6	1821.5	North-west
CECT5	Borehole	Sydney Metro Database	Null	Null	62.5	1822.1	North
CECT5	Null	SRT_External_Boreholes	Null	Null	62.5	1822.1	North
EA-BH06	Null	SRT_External_Boreholes	Null	Null	44.0	1822.8	North-west
EA-BH06	Borehole	Sydney Metro Database	Null	Null	44.0	1822.8	North-west
CCTA2	Borehole	Sydney Metro Database	Null	Null	15.0	1823.1	North-west
EA-BH06	Borehole	CBD Metro	TfNSW	22/07/2004	44.0	1823.7	North-west
BH119	Borehole	Sydney Metro Database	Null	Null	1.5	1824.3	South-west
FP57	Borehole	Sydney Metro Database	Null	Null	3.6	1825.4	North-west
B41	Borehole	Sydney Metro Database	Null	Null	12.9	1826.2	North-west
BH8	Borehole	Sydney Metro Database	Null	Null	15.2	1826.3	North-west
CCT109	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	15.0	1826.4	North-west
MW4	Borehole	Sydney Metro Database	Null	Null	6.0	1827.1	South-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R434_BH8	Borehole	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	01/08/2002	15.5	1828.2	North-west
BH8	Null	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	01/08/2002	15.5	1828.2	North-west
Ardec_D19	Borehole	Sydney Metro Database	Null	Null	8.3	1830.7	North-west
TP9	Test Pit	Stage 2 East Garden Island	Department of Defence	01/11/2016	1.0	1830.7	North
BH14	Borehole	Stage 2 East Garden Island	Department of Defence	01/11/2016	4.8	1830.7	North
SRT_BH602	Borehole	Sydney Metro 2015	Sydney Metro	27/11/2016	43.0	1830.9	North-west
Ardec_D31	Borehole	Sydney Metro Database	Null	Null	11.1	1831.8	North-west
Ardec_D18	Borehole	Sydney Metro Database	Null	Null	9.9	1833.1	North-west
MW06	Borehole	Darling Walk	Null	11/03/2008	7.2	1833.2	North-west
BH105	Null	SRT_External_Boreholes	Null	Null	18.0	1833.7	North-west
BH105	Borehole	Sydney Metro Database	Null	Null	18.0	1833.7	North-west
NWRL_R013	Null	NWRL_R013_Foundation Investigation for the Proposed State Bank Building	Civil & Civic Pty Ltd	01/01/1983	0.0	1835.0	North-west
Null	Null	NWRL_R013_Foundation Investigation for the Proposed State Bank Building	Civil & Civic Pty Ltd	01/01/1983	0.0	1835.0	North-west
R392_CPT010-I2	Null	NWRL_R392 CBD South East Light Rail	TfNSW	09/12/2013	10.0	1835.2	South
CPT010-I2	Intrusive Investigation	R392 CBD South East Light Rail	TfNSW	09/12/2013	10.0	1835.2	South
14-Jan	Null	Griffin1962Boreholes_SydneyWater	Null	Null	0.0	1835.5	South
A300	Borehole	Sydney Metro Database	Null	Null	11.9	1835.6	North-west
Ardec_D35	Borehole	Sydney Metro Database	Null	Null	12.2	1836.2	North-west
Ardec_D34	Borehole	Sydney Metro Database	Null	Null	13.3	1836.3	North-west
BH4	Borehole	Stage 2 East Garden Island	Department of Defence	01/11/2016	9.2	1836.3	North
Ardec_D17	Borehole	Sydney Metro Database	Null	Null	8.8	1836.7	North-west
NBH21	Borehole	Stage 2 - Detailed Site Investigation: Sydney International Conference Exhibition and Entertainment Precinct (SICEEP)	Infrastructure NSW	27/04/2012	3.5	1838.0	West
R238_BH2	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	20.9	1838.4	West
22	Null	Griffin1962Boreholes_SydneyWater	Null	Null	0.0	1841.6	South
Ardec_D15	Borehole	Sydney Metro Database	Null	Null	8.4	1842.1	North-west
GT0002885	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Soil Sample Analysis, Core sample analysis, Standard Penetration Test (SPT) located at	01/01/1986	0.0	1842.6	South-east

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
			Proposed New Kiosk,				
Ardec_D14	Borehole	Sydney Metro Database	Null	Null	9.5	1843.9	North-west
GW104266	Null	DIPNRBoreholesSydneyWater	Null	04/02/2005	0.0	1844.2	South
GA4	Borehole	Sydney Metro Database	Null	Null	11.9	1844.7	North-west
TP10	Test Pit	Stage 2 East Garden Island	Department of Defence	01/11/2016	0.8	1845.3	North-east
A306	Borehole	Sydney Metro Database	Null	Null	12.3	1845.9	North-west
R013_BH2	Borehole	Sydney Metro Database	Null	Null	10.0	1846.6	North-west
BH105	Borehole	Sydney Metro Database	Null	Null	2.0	1846.7	South-west
R238_BH4	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	20.9	1847.7	West
GT0002550	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Standard Penetration Test (SPT), Soil Sample Analysis located at Geotechnical investigation for proposed ne	01/01/1985	0.0	1848.3	North
CCT207	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	17.9	1848.6	North-west
BH7	Borehole	Sydney Metro Database	Null	Null	11.5	1849.3	North-west
R434_BH7	Borehole	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	01/08/2002	11.5	1849.9	North-west
BH7	Null	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	01/08/2002	11.5	1849.9	North-west
GA3	Borehole	Sydney Metro Database	Null	Null	10.7	1850.5	North-west
A310	Borehole	Sydney Metro Database	Null	Null	19.6	1850.9	North-west
R238_BH3A	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	4.0	1852.3	West
R238_BH3	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	23.3	1852.3	West
TP8	Test Pit	Stage 2 East Garden Island	Department of Defence	01/11/2016	1.0	1852.8	North
B31	Borehole	Sydney Metro Database	Null	Null	11.9	1853.6	North-west
SB315	Borehole	Sydney Metro Database	Null	Null	4.3	1853.7	West
BH114	Borehole	Sydney Metro Database	Null	Null	2.5	1853.8	South-west
NWRL_R238	Null	NWRL_R238_Proposed New Broadway Building and the Metro West Rail Tunnels	UTS Sydney	23/11/2010	0.0	1853.8	West
Null	Null	NWRL_R238_Proposed New Broadway Building and the Metro West Rail Tunnels	UTS Sydney	23/11/2010	0.0	1853.8	West
R238_BH11	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	4.5	1854.1	West
GT0002794	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government	Test Pits, Soil Sample Analysis located at	01/01/1993	0.0	1854.5	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
		Geotechnical Report Database Project (GGRD).	Sydney Technical College : Building 17A soil testing / Mohsen Rahimi, Geo				
NSR82	Borehole	New Southern Railway Phase IV Geotechnical Investigation	Transfield Bouyges JV	19/05/1995	22.3	1855.0	South-west
BH26	Borehole	Darling Walk	Null	11/03/2008	5.7	1855.0	North-west
BH21	Borehole	Darling Walk	Null	26/02/2008	8.2	1855.3	North-west
A303	Borehole	Sydney Metro Database	Null	Null	7.7	1855.5	North-west
BH16	Borehole	Darling Walk	Null	03/03/2008	3.3	1855.8	North-west
BH108	Borehole	Sydney Metro Database	Null	Null	2.0	1857.1	South-west
B43	Borehole	Sydney Metro Database	Null	Null	12.7	1857.2	North-west
BH3	Borehole	Sydney Metro Database	Null	Null	20.3	1857.4	North
B27	Borehole	Sydney Metro Database	Null	Null	10.0	1857.8	North-west
BH22	Borehole	Darling Walk	Null	26/02/2008	8.2	1858.0	North-west
GA5	Borehole	Sydney Metro Database	Null	Null	10.8	1858.3	North-west
A299	Borehole	Sydney Metro Database	Null	Null	13.3	1858.7	North-west
BH3	Null	NWRL_R434_126_Phillip_Street: Proposed Commercial Development 126 Phillip St, Sydney	Bovis Lend Lease	07/02/1998	20.3	1858.9	North
R434_BH3	Borehole	NWRL_R434_126_Phillip_Street: Proposed Commercial Development 126 Phillip St, Sydney	Bovis Lend Lease	07/02/1998	20.3	1858.9	North
Ardec_D13	Borehole	Sydney Metro Database	Null	Null	10.0	1859.0	North-west
GT0000637	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Supplied material sample analysis located at Conservation-quality sandstone : laboratory investigation - Geotechnical	01/01/1995	0.0	1859.9	North-west
RTD_BH1	Borehole	Illawarra Dives Track Drainage	Sydney Trains	02/05/2018	4.5	1860.2	South-west
BH2103/109	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	46.0	1860.2	North-west
B26	Borehole	Sydney Metro Database	Null	Null	11.1	1860.9	North-west
CB3	Borehole	Sydney Metro Database	Null	Null	3.5	1862.6	North-west
A305	Borehole	Sydney Metro Database	Null	Null	18.9	1865.4	North-west
MW614	Borehole	Carlton United Brewery GI	CUB	03/07/2006	20.2	1866.0	West
BH24	Borehole	Darling Walk	Null	25/02/2008	9.2	1866.3	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
CCT132	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	10.7	1867.0	North-west
R238_BH5	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	24.0	1867.8	West
R238_BH5A	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	4.1	1867.8	West
A308	Borehole	Sydney Metro Database	Null	Null	20.7	1867.8	North-west
A307	Borehole	Sydney Metro Database	Null	Null	12.6	1867.8	North-west
R238_BH6	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	22.8	1868.1	West
BH1	Null	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	29/01/1998	16.0	1870.0	North-west
R434_BH1	Borehole	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	29/01/1998	16.0	1870.0	North-west
BH17	Borehole	Darling Walk	Null	13/03/2008	5.2	1871.3	North-west
BH1	Borehole	Sydney Metro Database	Null	Null	16.0	1871.7	North-west
BH6	Borehole	Sydney Metro Database	Null	Null	15.2	1872.8	North
BH6	Null	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	01/08/2002	15.2	1872.8	North-west
R434_BH6	Borehole	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	01/08/2002	15.2	1872.8	North-west
BH29	Borehole	Darling Walk	Null	10/03/2008	0.6	1873.5	North-west
Ardec_D12	Borehole	Sydney Metro Database	Null	Null	12.1	1873.7	North-west
15	Null	Griffin1962Boreholes_SydneyWater	Null	Null	0.0	1874.2	South
MW613	Borehole	Carlton United Brewery GI	CUB	03/07/2006	5.0	1874.8	West
R412_BH2	<Null>	Sydney Metro Database	Null	Null	0.9	1874.9	South-west
R412_BH2	Borehole	NWRL_R412_ProposedCommunityHealth Centre	Atkinson Capital Insight	26/05/2007	0.9	1874.9	South-west
R412_BH2	Null	SRT_External_Boreholes	Null	Null	0.9	1874.9	South-west
R013_BH1	Null	SRT_External_Boreholes	Null	Null	22.8	1875.4	North-west
C-013-BH1	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	82.6	1875.4	North-west
C-013-BH1	Null	State Bank Martin Place	Null	Null	22.8	1875.4	North-west
ST01	Null	Sydney Yard Overhead Wiring Modernisation	Sydney Trains	18/09/2015	0.0	1876.0	South-west
Null	Null	Sydney Yard Overhead Wiring Modernisation	Sydney Trains	18/09/2015	0.0	1876.0	South-west
BH04	Borehole	Sydney Yard Overhead Wiring Modernisation	Sydney Trains	03/08/2015	8.0	1876.0	South-west
NWRL_R434	Null	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	18/08/2002	0.0	1876.0	North-west
Null	Null	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	18/08/2002	0.0	1876.0	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
R013_BH1	Borehole	Sydney Metro Database	Null	Null	22.8	1876.1	North-west
CB2	Borehole	Sydney Metro Database	Null	Null	4.2	1877.6	North-west
A284	Borehole	Sydney Metro Database	Null	Null	17.1	1877.9	North-west
MW1	Borehole	Sydney Metro Database	Null	Null	4.5	1878.5	South-west
BH104	Borehole	Sydney Metro Database	Null	Null	2.5	1878.5	South-west
BH28	Borehole	Darling Walk	Null	10/03/2008	7.0	1879.0	North-west
R238_BH12	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	1.5	1879.4	West
D-045-BH04	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	6.3	1879.5	North
R045_BH04	Null	SRT_External_Boreholes	Null	Null	6.4	1879.5	North
R045_BH04	Borehole	Sydney Metro Database	Null	Null	6.4	1879.5	North
CCT161	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	750.0	1879.7	North-west
FP18A	Borehole	Sydney Metro Database	Null	Null	3.3	1880.6	North-west
FP18B	Borehole	Sydney Metro Database	Null	Null	3.1	1880.9	North-west
B29	Borehole	Sydney Metro Database	Null	Null	12.0	1881.0	North-west
R434_BH5	Borehole	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	16/07/2002	15.6	1881.4	North
BH5	Null	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	16/07/2002	15.6	1881.4	North
R238_BH10	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	22.6	1881.6	West
BH23	Borehole	Darling Walk	Null	14/03/2008	0.3	1881.7	North-west
WM1/BH2	Borehole	Sydney Metro Database	Null	Null	40.5	1882.3	West
WESTMETRO_WM1/BH2	Null	West Metro	Sydney Metro	Null	40.5	1882.3	West
WM1/BH2	Borehole	West Metro	Sydney Metro	Null	40.5	1882.3	West
B30	Borehole	Sydney Metro Database	Null	Null	14.1	1882.5	North-west
B28	Borehole	Sydney Metro Database	Null	Null	11.7	1882.8	North-west
CCT161A	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.2	1884.1	North-west
12	Null	Griffin1962Boreholes_SydneyWater	Null	Null	0.0	1884.4	South
CCT161F	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	36.2	1885.2	North-west
BH103	Borehole	Sydney Metro Database	Null	Null	3.5	1885.2	South-west
CCT161C	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.8	1885.3	North-west
CCT161F	Borehole	Sydney Metro Database	Null	Null	36.2	1885.5	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
CCT161B	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.4	1885.5	North-west
BH101	Borehole	Sydney Metro Database	Null	Null	2.1	1885.8	South-west
BH102	Borehole	Sydney Metro Database	Null	Null	1.5	1885.8	South-west
CCT161D	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	0.8	1885.9	North-west
A282	Borehole	Sydney Metro Database	Null	Null	14.8	1886.0	North-west
R013_BH3	Borehole	Sydney Metro Database	Null	Null	10.9	1886.5	North-west
R238_BH1	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	23.0	1886.8	West
A277	Borehole	Sydney Metro Database	Null	Null	17.8	1887.8	North-west
A287	Borehole	Sydney Metro Database	Null	Null	11.8	1890.6	North-west
GT0002421	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Core sample analysis located at Glebe Materials Testing & Chemicals Services Laboratory Rock Core Testing, Power Hous	01/01/1983	0.0	1890.8	West
FP48	Borehole	Sydney Metro Database	Null	Null	3.6	1891.5	North-west
BH25	Borehole	Darling Walk	Null	29/02/2008	6.2	1892.2	North-west
A279	Borehole	Sydney Metro Database	Null	Null	8.7	1892.5	North-west
BH1	Borehole	Sydney Metro Database	Null	Null	10.0	1893.8	North-west
FP41	Borehole	Sydney Metro Database	Null	Null	2.6	1893.8	North-west
BH2	Borehole	Sydney Metro Database	Null	Null	8.6	1893.8	North-west
CB1	Borehole	Sydney Metro Database	Null	Null	4.8	1893.9	North-west
Null	Null	NWRL_R412_ProposedCommunityHealth Centre	Atkinson Capital Insight	01/07/2007	0.0	1894.9	South-west
NWRL_R412	Null	NWRL_R412_ProposedCommunityHealth Centre	Atkinson Capital Insight	01/07/2007	0.0	1894.9	South-west
BH2	Borehole	Sydney Metro Database	Null	Null	16.4	1895.3	North-west
R412_BH3	<Null>	Sydney Metro Database	Null	Null	0.9	1896.3	South-west
R412_BH3	Borehole	NWRL_R412_ProposedCommunityHealth Centre	Atkinson Capital Insight	26/05/2007	0.9	1896.3	South-west
R412_BH3	Null	SRT_External_Boreholes	Null	Null	0.9	1896.3	South-west
NBH14	Borehole	Stage 2 - Detailed Site Investigation: Sydney International Conference Exhibition and Entertainment Precinct (SICEEP)	Infrastructure NSW	26/04/2012	21.0	1896.8	North-west
Ardec_D11	Borehole	Sydney Metro Database	Null	Null	11.8	1897.1	North-west
BH27	Borehole	Darling Walk	Null	14/03/2008	1.2	1897.2	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
MW07	Borehole	Darling Walk	Null	29/02/2008	6.2	1898.4	North-west
BH2	Null	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	01/02/1998	16.4	1899.2	North-west
R434_BH2	Borehole	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	01/02/1998	16.4	1899.2	North-west
A280	Borehole	Sydney Metro Database	Null	Null	11.8	1900.1	North-west
BH4	Borehole	Sydney Metro Database	Null	Null	18.2	1900.4	North
A276	Borehole	Sydney Metro Database	Null	Null	14.6	1900.4	North-west
CCT117	Borehole	Cross City Tunnel Site Investigation	BHBB	08/01/2003	42.3	1901.3	North-west
BH4	Null	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	07/02/1998	18.2	1902.4	North
R434_BH4	Borehole	NWRL_R434_126_Phillip_Street: Proposed Commerical Development 126 Phillip St, Sydney	Bovis Lend Lease	07/02/1998	18.2	1902.4	North
R238_BH9A	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	3.1	1902.6	West
R238_BH9	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	26.9	1902.6	West
NSR83	Borehole	New Southern Railwyy Phase IV Geotechnical Investigation	Transfield Bouyges JV	19/05/1995	25.6	1903.2	South-west
R238_BH8	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	18.6	1904.9	West
A278	Borehole	Sydney Metro Database	Null	Null	11.8	1905.6	North-west
D-069-105	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	29.0	1905.6	North-west
R069-105	Null	SRT_External_Boreholes	Null	Null	12.1	1905.6	North-west
R069-105	Borehole	Sydney Metro Database	Null	Null	12.1	1905.6	North-west
A281	Borehole	Sydney Metro Database	Null	Null	11.3	1906.1	North-west
SB317	Borehole	Sydney Metro Database	Null	Null	3.6	1906.2	West
A275	Borehole	Sydney Metro Database	Null	Null	15.1	1909.2	North-west
GT0002491	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Standard Penetration Test (SPT), Test Pits, Soil Sample Analysis located at Redfern Aboriginal Medical Serv	01/01/2000	0.0	1912.0	South-west
A274	Borehole	Sydney Metro Database	Null	Null	14.9	1913.5	North-west
A273	Borehole	Sydney Metro Database	Null	Null	16.5	1913.6	North-west
R412_BH1	Borehole	Sydney Metro Database	Null	Null	5.0	1913.9	South-west
R412_BH1	Borehole	NWRL_R412_ProposedCommunityHealth Centre	Atkinson Capital Insight	26/05/2007	5.0	1913.9	South-west
RTD_BH2	Borehole	Illawarra Dives Track Drainage	Sydney Trains	02/05/2018	5.0	1914.1	South-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH30	Borehole	Darling Walk	Null	14/03/2008	0.9	1916.2	North-west
A286	Borehole	Sydney Metro Database	Null	Null	11.6	1917.7	North-west
5173K (1)	Null	JefferyAndKataukusBoreholesSydney	Null	07/01/1987	12.0	1918.0	South-west
BH2103/19	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	51.0	1918.1	North-west
SRT BH012	Borehole	Sydney Metro 2015	Sydney Metro	Null	49.0	1920.3	North-west
Ardec_D10	Borehole	Sydney Metro Database	Null	Null	11.5	1923.0	North-west
R337_BHC9	Borehole	R337_Redfern Station_Wet Weather Overflow Reduction	Agility	13/10/2007	9.2	1923.2	South-west
BHC9	Null	NWRL_R337_Redfern Station_Wet Weather Overflow Reduction	Agility	13/10/2007	9.2	1923.2	South-west
A271	Borehole	Sydney Metro Database	Null	Null	0.0	1924.1	North-west
NWRL_R069	Null	NWRL_R069_Proposed Development at the Goodsell Building	Mirvac Projects Pty Ltd	01/02/2008	0.0	1924.3	North-west
Null	Null	NWRL_R069_Proposed Development at the Goodsell Building	Mirvac Projects Pty Ltd	01/02/2008	0.0	1924.3	North-west
BH5	Borehole	Sydney Metro Database	Null	Null	3.5	1924.9	North-west
R238_BH7	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	16.5	1925.9	West
R238_BH7A	Borehole	Proposed Broadway Building	University of Technology	03/05/2010	1.8	1925.9	West
SG4	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	16/12/2011	1.6	1926.2	South-west
BH52 / MW24	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	23/01/2004	6.5	1926.4	South-west
BH52 / MW24	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	23/01/2004	6.5	1926.4	South-west
BH2	Borehole	Sydney Metro Database	Null	Null	8.1	1926.5	North-west
A268	Borehole	Sydney Metro Database	Null	Null	21.7	1927.1	North-west
R337_BHC10	Borehole	R337_Redfern Station_Wet Weather Overflow Reduction	Agility	13/10/2007	8.2	1927.4	South-west
BHC8	Null	NWRL_R337_Redfern Station_Wet Weather Overflow Reduction	Agility	13/10/2007	9.6	1928.9	South-west
R337_BHC8	Borehole	R337_Redfern Station_Wet Weather Overflow Reduction	Agility	13/10/2007	9.6	1928.9	South-west
R337_BHC7	Borehole	R337_Redfern Station_Wet Weather Overflow Reduction	Agility	13/10/2007	9.9	1929.3	South-west
BHC7	Null	NWRL_R337_Redfern Station_Wet Weather Overflow Reduction	Agility	13/10/2007	9.9	1929.3	South-west
BH53 / MW19	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	22/01/2004	6.5	1930.8	South-west
BH53 / MW19	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	22/01/2004	6.5	1930.8	South-west
Ardec_D9	Borehole	Sydney Metro Database	Null	Null	0.0	1931.3	North-west
BH54 / MW20	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	18/12/2003	6.5	1933.5	South-west
BH54 / MW20	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	18/12/2003	6.5	1933.5	South-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
GT0002548	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Standard Penetration Test (SPT) located at Royal Botanic Gardens and Domain : Mrs Macquarie Road : geotechn	01/01/2006	0.0	1934.8	North
BH2103/132	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	43.0	1935.2	North-west
MW615	Borehole	Carlton United Brewery GI	CUB	05/07/2006	18.1	1935.4	West
BH55 / MW21	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	18/12/2003	6.2	1936.0	South-west
BH55 / MW21	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	18/12/2003	6.2	1936.0	South-west
A269	Borehole	Sydney Metro Database	Null	Null	19.4	1936.1	North-west
A270	Borehole	Sydney Metro Database	Null	Null	21.3	1936.2	North-west
A267	Borehole	Sydney Metro Database	Null	Null	22.5	1936.2	North-west
BH56	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	31/01/2004	6.9	1936.6	South-west
BH56	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	31/01/2004	6.9	1936.6	South-west
NBH12	Borehole	Stage 2 - Detailed Site Investigation: Sydney International Conference Exhibition and Entertainment Precinct (SICEEP)	Infrastructure NSW	23/04/2012	5.0	1937.0	North-west
BH81 / MW38	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	05/03/2004	6.0	1937.1	South-west
BH81 / MW38	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	05/03/2004	6.0	1937.1	South-west
BH11	Borehole	CBD Metro	TfNSW	10/10/1997	18.2	1938.1	North-west
BH10	Borehole	CBD Metro	TfNSW	10/10/1997	18.1	1938.1	North-west
BH4	Borehole	CBD Metro	TfNSW	17/05/1997	17.8	1938.1	North-west
BH9	Borehole	CBD Metro	TfNSW	05/09/1997	20.6	1938.1	North-west
BH5	Borehole	CBD Metro	TfNSW	29/09/1997	16.9	1938.1	North-west
BH1	Borehole	CBD Metro	TfNSW	20/05/1997	18.1	1938.1	North-west
BH7	Borehole	CBD Metro	TfNSW	02/09/1997	15.6	1938.1	North-west
BH2	Borehole	CBD Metro	TfNSW	10/05/1997	16.3	1938.1	North-west
BH3	Borehole	CBD Metro	TfNSW	21/05/1997	8.0	1938.1	North-west
BH8	Borehole	CBD Metro	TfNSW	Null	19.6	1938.1	North-west
R336_BHC2	Borehole	Sydney Metro Database	Null	Null	4.0	1939.3	West
R336_BHC2	Borehole	NWRL_R336_Wet Weather Overflow Reduction Program	Agility	23/06/2006	4.0	1939.3	West
TP2	Test Pit	Stage 2 East Garden Island	Department of Defence	01/11/2016	1.5	1939.8	North

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
Ardec_D8	Borehole	Sydney Metro Database	Null	Null	0.0	1940.4	North-west
R069-103	Borehole	Sydney Metro Database	Null	Null	20.4	1940.8	North-west
D-069-103	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	27.4	1940.8	North-west
R069-103	Null	SRT_External_Boreholes	Null	Null	20.4	1940.8	North-west
SG5	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	16/12/2011	1.6	1941.6	South-west
A265	Borehole	Sydney Metro Database	Null	Null	20.0	1942.7	North-west
A264	Borehole	Sydney Metro Database	Null	Null	22.4	1943.0	North-west
BH58 / MW22	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	18/12/2003	7.0	1943.2	South-west
BH58 / MW22	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	18/12/2003	7.0	1943.2	South-west
SRT_BH606	Borehole	Sydney Metro 2015	Sydney Metro	11/12/2016	39.9	1943.5	North-west
BH98 / MW85	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	21/07/2010	6.0	1944.2	South-west
BH100 / MW87	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	20/07/2010	6.0	1945.6	South-west
A266	Borehole	Sydney Metro Database	Null	Null	22.2	1946.0	North-west
BH99 / MW86	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	20/07/2010	5.9	1946.2	South-west
GT0002782	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Point load tests (PLTs) located at Sydney Institute of Technology, Ultimo (University of Technology, Sydney)	01/01/1996	0.0	1946.4	West
P1-IW01	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	28/07/2008	5.8	1946.9	South-west
P1-IW01	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	28/07/2008	5.8	1946.9	South-west
BH103	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	10/07/2010	9.0	1948.2	South-west
BH05	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	04/04/2002	4.5	1948.2	South-west
BH05 / MW04	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	04/04/2002	4.5	1948.2	South-west
BH101	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	08/07/2010	9.0	1948.6	South-west
A257	Borehole	Sydney Metro Database	Null	Null	24.3	1948.9	North-west
R336_BHC4	Borehole	NWRL_R336_Wet Weather Overflow Reduction Program	Agility	22/06/2006	7.0	1949.0	West
R336_BHC4	Borehole	Sydney Metro Database	Null	Null	7.0	1949.0	West
BH75	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	28/02/2004	1.5	1949.5	South-west
BH75	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	28/02/2004	1.5	1949.5	South-west
BH4	Borehole	Sydney Metro Database	Null	Null	7.1	1949.6	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
Ardec_D7	Borehole	Sydney Metro Database	Null	Null	18.8	1950.2	North-west
P1-MW01	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	24/07/2008	6.3	1950.9	South-west
P1-MW01	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	24/07/2008	6.3	1950.9	South-west
MW44	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	06/04/2006	6.0	1951.4	South-west
MW44	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	06/04/2006	6.0	1951.4	South-west
11	Null	Griffin1962Boreholes_SydneyWater	Null	Null	0.0	1952.6	South-west
BH102	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	07/07/2010	9.0	1952.6	South-west
BH94 / MW81	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	22/07/2010	6.0	1953.0	South-west
A263	Borehole	Sydney Metro Database	Null	Null	23.9	1953.4	North-west
R336_BHC3a	Borehole	NWRL_R336_Wet Weather Overflow Reduction Program	Agility	23/06/2006	1.1	1953.8	West
R336_BHC3a	Borehole	Sydney Metro Database	Null	Null	1.1	1953.8	West
MW43	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	07/04/2006	6.1	1954.0	South-west
MW43	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	07/04/2006	6.1	1954.0	South-west
BH79 / MW36	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	01/03/2004	6.0	1954.1	South-west
BH79 / MW36	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	01/03/2004	6.0	1954.1	South-west
MW41	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	06/04/2006	6.1	1954.6	South-west
MW41	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	06/04/2006	6.1	1954.6	South-west
R336_BHC3b	Borehole	Sydney Metro Database	Null	Null	6.4	1955.5	West
R336_BHC3b	Borehole	NWRL_R336_Wet Weather Overflow Reduction Program	Agility	23/06/2006	6.4	1955.5	West
BH97 / MW84	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	22/07/2010	5.6	1955.6	South-west
GT0003012	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Soil Sample Analysis located at Ultimo, Sydney Institute of Technology, vehicle technology centre, building	01/01/1994	0.0	1955.7	West
GT0002769	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Dynamic Cone Penetration (DCP) located at Sydney college of tertiary and further education (tafe) refurbish	01/01/1989	0.0	1955.7	West
GT0002781	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Test Pits, Dynamic Cone Penetration (DCP) located at Sydney Institute of Technology,	01/01/1996	0.0	1955.7	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
			Ultimo : building N fill investi				
GT0003011	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Standard Penetration Test (SPT), Soil Sample Analysis located at Ultimo, Sydney Institute of Technology, Bu	01/01/2000	0.0	1955.7	West
GT0002780	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Standard Penetration Test (SPT), Soil Sample Analysis, Point load tests (PLTs) located at Sydney Institute	01/01/1994	0.0	1955.7	West
BH95 / MW82	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	28/07/2010	6.0	1955.9	South-west
A261	Borehole	Sydney Metro Database	Null	Null	21.5	1956.7	North-west
BH91 / MW78	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	19/07/2010	5.5	1957.4	South-west
BH72 / MW32	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	25/02/2004	6.4	1957.7	South-west
BH72 / MW32	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	25/02/2004	6.4	1957.7	South-west
5173K (2)	Null	JefferyAndKataukusBoreholesSydney	Null	07/01/1987	9.0	1958.7	South-west
Ardec_D6	Borehole	Sydney Metro Database	Null	Null	20.9	1958.8	North-west
BH03	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	04/04/2002	5.0	1959.1	South-west
BH03 / MW03	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	04/04/2002	5.0	1959.1	South-west
BH76 / MW34	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	02/03/2004	6.0	1959.9	South-west
BH76 / MW34	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	02/03/2004	6.0	1959.9	South-west
BH63 / MW63	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	11/02/2008	5.7	1960.6	South-west
BH63 / MW63	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	11/02/2008	5.7	1960.6	South-west
BH2103/133	Borehole	Sydney Metro Contract 2103 - Detailed Geotech Site Investigations Data Report rev 4	Sydney Metro	01/03/2010	8.8	1960.8	North-west
ES196	Borehole	Sydney Metro Database	Null	Null	54.9	1961.0	East
BH02 / MW02	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	04/04/2002	6.0	1961.1	South-west
BH02	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	04/04/2002	6.0	1961.1	South-west
A256	Borehole	Sydney Metro Database	Null	Null	26.6	1961.5	North-west
A258	Borehole	Sydney Metro Database	Null	Null	24.2	1961.6	North-west
BH6	<Null>	Sydney Metro Database	Null	Null	6.1	1962.1	North-west
SG6	Borehole	Lawrence Dry Cleaners	Lawrence Dry Clenaers	15/12/2011	1.6	1962.8	South-west
SRT BH011	Borehole	Sydney Metro 2015	Sydney Metro	Null	40.0	1964.7	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH92 / MW79	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	19/07/2010	5.8	1965.4	South-west
Ardec_D5	Borehole	Sydney Metro Database	Null	Null	19.8	1965.8	North-west
R157_BHTRANS11	Borehole	Sydney Metro Database	Null	Null	13.0	1966.0	West
SRT_BH607	Borehole	Sydney Metro 2015	Sydney Metro	12/12/2016	23.2	1966.4	North-west
MW42	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	06/04/2006	5.2	1966.8	South-west
MW42	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	06/04/2006	5.2	1966.8	South-west
MW103	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	15/12/2011	6.0	1966.8	South-west
EW02	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	30/01/2012	6.5	1967.3	South-west
BH5	<Null>	Sydney Metro Database	Null	Null	6.1	1967.3	North-west
BH77 / MW35	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	29/02/2004	6.0	1967.6	South-west
BH77 / MW35	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	29/02/2004	6.0	1967.6	South-west
EA-BH04	Borehole	CBD Metro	TfNSW	11/07/2004	39.0	1968.6	North-west
EA-BH04	Borehole	Sydney Metro Database	Null	Null	39.0	1968.6	North-west
EA-BH04	Null	SRT_External_Boreholes	Null	Null	39.0	1968.6	North-west
MW110	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	02/02/2012	7.3	1968.8	South-west
BH89 / MW76	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	28/07/2010	6.0	1968.9	South-west
BH47 / MW14	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	02/08/2002	3.8	1968.9	South-west
BH47 / MW14	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	02/08/2002	3.8	1968.9	South-west
BH7	<Null>	Sydney Metro Database	Null	Null	6.1	1969.2	North-west
MW40	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	06/04/2006	6.1	1969.5	South-west
MW40	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	06/04/2006	6.1	1969.5	South-west
GT0000905	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Drilling, Geophysics located at Farm Cove seawall restoration : geotechnical advice re latent condition claim - Geote	01/01/1999	0.0	1970.0	North
MW104	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	16/12/2011	6.4	1971.2	South-west
IW02	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	Null	5.8	1971.4	South-west
BH80 / MW37	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	03/03/2004	6.9	1971.7	South-west
BH80 / MW37	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	03/03/2004	6.9	1971.7	South-west
BH74 / MW33	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	27/02/2004	6.5	1971.9	South-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH74 / MW33	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	27/02/2004	6.5	1971.9	South-west
BH88 / MW75	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	28/07/2010	6.0	1972.7	South-west
IW04	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	05/02/2012	5.8	1973.5	South-west
BH70 / MW30	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	20/02/2004	4.0	1974.1	South-west
BH70 / MW30	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	20/02/2004	4.0	1974.1	South-west
BH4	<Null>	Sydney Metro Database	Null	Null	6.1	1974.3	North-west
P1-EW01	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	29/07/2008	5.9	1974.4	South-west
P1-EW01	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	29/07/2008	5.9	1974.4	South-west
EW03	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	31/01/2012	7.0	1975.1	South-west
IW03	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	02/02/2012	5.8	1975.6	South-west
BH78	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	01/03/2004	0.2	1976.1	South-west
BH78	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	01/03/2004	0.2	1976.1	South-west
EW04	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	31/01/2012	7.1	1976.6	South-west
BH90 / MW77	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	19/07/2010	5.5	1977.1	South-west
MW112	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	03/02/2012	5.8	1977.2	South-west
Ardec_D4	Borehole	Sydney Metro Database	Null	Null	22.4	1978.7	North-west
IW505	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	21/01/2012	5.0	1978.9	South-west
BH1	<Null>	Sydney Metro Database	Null	Null	4.6	1979.1	North-west
FP_BH1	Borehole	Wheat Point Hotel, 161 Sussex St Redevelopment Sydney	Cadence Australia Pty Ltd	26/04/2012	15.0	1979.4	North-west
BH62 / MW23	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	30/01/2004	4.4	1979.6	South-west
BH62 / MW23	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	30/01/2004	4.4	1979.6	South-west
BH87 / MW74	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	21/07/2010	6.0	1979.6	South-west
MW111	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	01/02/2012	5.9	1979.7	South-west
BH9	<Null>	Sydney Metro Database	Null	Null	6.1	1979.9	North-west
EW05	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	01/02/2012	5.8	1980.2	South-west
BH69	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	19/02/2004	2.0	1980.3	South-west
BH69	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	19/02/2004	2.0	1980.3	South-west
WM1/BH3	Borehole	Sydney Metro Database	Null	Null	35.0	1981.6	West
WESTMETRO_WM1/BH3	Null	West Metro	Sydney Metro	10/07/2009	35.0	1981.6	West
WM1/BH3	Borehole	West Metro	Sydney Metro	10/07/2009	35.0	1981.6	West

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH26	Borehole	Stage 2 East Garden Island	Department of Defence	01/11/2016	3.0	1982.3	North-east
BH8	<Null>	Sydney Metro Database	Null	Null	6.4	1982.8	North-west
BH2	<Null>	Sydney Metro Database	Null	Null	6.1	1984.3	North-west
BH84 / MW71	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	20/07/2010	6.0	1985.0	South-west
BH12	<Null>	Sydney Metro Database	Null	Null	6.1	1985.3	North-west
BH82 / MW69	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	20/07/2010	5.8	1985.7	South-west
SG1	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	04/08/2011	1.4	1986.1	South-west
BH65 / MW26	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	12/02/2004	5.5	1986.5	South-west
BH65 / MW26	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	12/02/2004	5.5	1986.5	South-west
GT0000501	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Soil Sample Analysis, Water sample analysis located at Centennial and Moore Park Trust, golf course, maintenance depo	01/01/1996	0.0	1986.7	South
BH67 / MW28	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	17/02/2004	5.3	1986.9	South-west
BH67 / MW28	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	17/02/2004	5.3	1986.9	South-west
GT0000500	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Soil Sample Analysis located at Centennial and Moore Park Trust, golf course, maintenance depot : geotechnical invest	01/01/1996	0.0	1986.9	South
BH68 / MW29	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	18/02/2004	5.8	1987.0	South-west
BH68 / MW29	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	18/02/2004	5.8	1987.0	South-west
BH64	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	12/02/2004	5.5	1987.4	South-west
BH64	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	12/02/2004	5.5	1987.4	South-west
BH86 / MW73	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	20/07/2010	7.1	1987.7	South-west
IW506	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	17/01/2012	5.0	1988.0	South-west
EW404	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	21/01/2012	3.5	1988.5	South-west
BH83 / MW70	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	21/07/2010	5.0	1988.7	South-west
BH11	<Null>	Sydney Metro Database	Null	Null	6.1	1989.5	North-west
BH64 / MW64	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	11/02/2008	4.5	1989.5	South-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH64 / MW64	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	11/02/2008	4.5	1989.5	South-west
BH3	<Null>	Sydney Metro Database	Null	Null	5.8	1989.5	North-west
BH85 / MW72	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	20/07/2010	7.1	1990.4	South-west
BH115 / MW99D	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	06/08/2011	13.0	1990.8	South-west
BH66 / MW27	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	16/02/2004	5.5	1991.3	South-west
BH66 / MW27	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	16/02/2004	5.5	1991.3	South-west
BH108 / MW92	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	19/07/2010	6.4	1991.5	South-west
IW501	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	18/01/2012	4.6	1992.6	South-west
GT0001442	Intrusive Investigation	A collection of NSW geotechnical reports as part of the NSW Government Geotechnical Report Database Project (GGRD).	Soil Sample Analysis located at Re: TCLP testing of shallow fill, Jones Street Mall - Groundwater Technology - 6 June	01/01/1995	0.0	1993.1	West
IW507	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	20/01/2012	4.8	1995.0	South-west
TP7	Test Pit	Stage 2 East Garden Island	Department of Defence	01/11/2016	1.0	1995.0	North
BH10	<Null>	Sydney Metro Database	Null	Null	6.1	1995.1	North-west
W-084-BH4	Borehole	NWRL R219 Sydney Metro line 1 Arup NorthWest Metro	North West Metro Team	Null	6.7	1995.1	West
R084-BH4	Borehole	Sydney Metro Database	Null	Null	25.1	1995.1	West
BH23	Borehole	Stage 2 East Garden Island	Department of Defence	01/11/2016	3.0	1995.7	North-east
EW405	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	23/12/2011	4.1	1995.7	South-west
Null	Null	NWRL_R336_Wet Weather Overflow Reduction Program	Agility	01/07/2006	0.0	1996.0	West
NWRL_R336	Null	NWRL_R336_Wet Weather Overflow Reduction Program	Agility	01/07/2006	0.0	1996.0	West
BH118 / MW102D	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	03/08/2011	11.0	1996.3	South-west
MW106	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	24/01/2012	5.3	1996.4	South-west
BH107 / MW91	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	16/07/2010	7.0	1996.9	South-west
NWRL_R222	Null	NWRL_R222_Commerical and Student Accomodation	Hudson Square Pty Ltd	10/03/2010	0.0	1996.9	West
Null	Null	NWRL_R222_Commerical and Student Accomodation	Hudson Square Pty Ltd	10/03/2010	0.0	1996.9	West
BH50 / MW17	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	05/08/2002	3.5	1997.2	South-west
BH50 / MW17	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	05/08/2002	3.5	1997.2	South-west
NBH7	Borehole	Stage 2 - Detailed Site Investigation: Sydney International Conference Exhibition and Entertainment Precinct (SICEEP)	Infrastructure NSW	23/04/2012	3.6	1998.0	North-west

Borehole ID	Purpose	Project	Client/ License	Date Drilled	Depth (m)	Distance (m)	Direction
BH14	<Null>	Sydney Metro Database	Null	Null	11.5	1998.3	North-west
BH25	Borehole	Stage 2 East Garden Island	Department of Defence	01/11/2016	3.0	1998.6	North-east
BH63 / MW25	Borehole	Lawrence Dry Cleaners	Lawrence Dry Cleaners	10/02/2004	6.4	1998.7	South-west
BH63 / MW25	Borehole	Lawrence Drycleaners 887-893 Bourke St Waterloo	Lawrence Drycleaners	10/02/2004	6.4	1998.7	South-west
R472_CTS12	Borehole	Southern Line	Railcorp	21/06/1945	53.9	1999.0	South
R180_42_CTS12	Null	NWRL_R180_Southern Line	Railcorp	21/06/1945	53.9	1999.0	South

Note: The use of the symbol "-" or "Null" indicates that no records were found.



Section 3 Environmental Registers, Licences and Incidents



3.1 CONTAMINATED LAND PUBLIC REGISTER

Map 3.1 (1000m Buffer)

Contaminated Sites

Register Type	Site Name	Address	Description	Details	Distance (m)	Direction
Record of Notices	7-Eleven Service Station	59 Oxford STREET,PADDINGTON	Service Station	Notices relating to this site (2 current and 2 former)	71.3	South-east
Sites Notified as Contaminated	7-Eleven Service Station	59 Oxford STREET PADDINGTON	Service Station	Contamination currently regulated under CLM Act	71.3	South-east
Sites Notified as Contaminated	Former Workshop	52 Hopewell STREET PADDINGTON	Other Industry	Regulation under CLM Act not required	213.7	North-east
Sites Notified as Contaminated	Area 2, Moore Park	Driver AVENUE MOORE PARK	Unclassified	Regulation under CLM Act not required	445.4	South
Sites Notified as Contaminated	Eurostar Dry Cleaners	100 Oxford STREET SYDNEY	Chemical Industry	Regulation under CLM Act not required	452.7	North-west
Sites Notified as Contaminated	Former Legion Cabs (Trading) Cooperative	81 & 81A (Formerly 69 - 81) Foveaux STREET SURRY HILLS	Service Station	Regulation under CLM Act not required	807.9	West
Sites Notified as Contaminated	Proposed Retail Unit	139-155 Palmer STREET DARLINGHURST	Unclassified	Regulation under CLM Act not required	824.3	North
Sites Notified as Contaminated	18-28 Neild Avenue, Darlinghurst	18-28 Neild AVENUE DARLINGHURST	Landfill	Regulation under CLM Act not required	824.6	North-east

Register Type	Site Name	Address	Description	Details	Distance (m)	Direction
Sites Notified as Contaminated	Ausgrid Road Reserve	Mary STREET SURRY HILLS	Other Industry	Regulation under CLM Act not required	876.0	West
Sites Notified as Contaminated	Cross City Tunnel	Riley Street and William STREET DARLINGHURST	Service Station	Contamination was addressed via the planning process (EP&A Act)	985.6	North

If the record does not contain a complete street address and/or cannot be located, the records' geographic location will be approximated and reported as being within the surrounding area.

Table 3.1.1 Contaminated Land Public Register		
State	Regulatory Body	Information included in this search (by state)
ACT	EPA (Environment Protection Authority)	Contaminated Land Search Register of Contaminated Sites * (on request)
NSW	EPA (Environment Protection Authority)	Sites Notified as Contaminated Records of Notices
NT	EPA (Environment Protection Authority)	Contaminated Land Audit Pollution Abatement Notice
QLD	DES (Department of Environment and Science)	Contaminated Land Search (Environmental Management and Contaminated Land Registers) * (per lot)
SA	EPA (Environment Protection Authority)	Site Contamination Index Assessment Areas
TAS	EPA (Environment Protection Authority)	Regulated Sites and Premises Lutana and Parts of Hobarts Eastern Shore
VIC	EPA (Environment Protection Authority)	Priority Sites Register Pollution Abatement Notice
WA	DWER (Department of Water and Environmental Regulation)	Contaminated Sites Database

This search contains information retrieved from the relevant state authority, agency/department, or government authority that notifies and identifies contaminated land. The list only contains contaminated sites that the regulatory body is aware of or that have been notified by owners or occupiers as contaminated land. The sites are recorded on the register at various stages of the assessment and/or remediation process. If a site is not on the list, it does not necessarily mean the site is not contaminated.

3.2 LICENCES, APPROVALS & ASSESSMENTS

Map 3.2 (1000m Buffer)

Licences

Licence N°	Type	Licence holder	Location Name	Premise Address	Activity	Dist. (m)*	Direct
10414	Delicensed	SISTERS OF CHARITY HEALTH SERVICE LIMITED	ST VINCENTS PRIVATE HOSPITAL	406 Victoria Street, DARLINGHURST NSW	Hazardous, Industrial or Group A Waste Generation or Storage	147.7	North
11197	Delicensed	ST. VINCENT'S HOSPITAL SYDNEY LIMITED	ST VINCENTS HOSPITAL	390 Victoria Street, DARLINGHURST NSW	Hazardous, Industrial or Group A Waste Generation or Storage	204.4	North-east
10257	Surrendered	CLINIPATH PTY LTD	CLINIPATH PTY LTD	CLINIPATH PTY LTD	Hazardous, Industrial or Group A Waste	388.4	East

Licence N°	Type	Licence holder	Location Name	Premise Address	Activity	Dist. (m)*	Direct
					Generation or Storage		
6924	Surrendered	METROPOLITAN ELECTROPLATE RS PTY LTD	METROPOLITAN ELECTROPLATE RS PTY LTD	123 RESERVOIR ROAD, SURRY HILLS, NSW 2010	Metal coating, Hazardous, Industrial or Group A Waste Generation or Storage	634.3	West
7009	Surrendered	PALLOYS PTY LTD	PALLOYS PTY LTD	74-84 FOVEAUX STREET, SURRY HILLS, NSW 2010	Hazardous, Industrial or Group A Waste Generation or Storage	720.6	West
7237	Surrendered	NATIONWIDE NEWS PTY. LIMITED	NATIONWIDE NEWS PTY. LIMITED	2 HOLT STREET, SURRY HILLS, NSW 2010	Hazardous, Industrial or Group A Waste Generation or Storage	902.5	West
12090	Delicensed	FOX STUDIOS AUSTRALIA PTY LIMITED	Fox Studios Australia (Professional Studios)	Driver Avenue, MOORE PARK NSW	Hazardous, Industrial or Group A Waste Generation or Storage	965.6	South-east
5906	Surrendered	CPB CONTRACTORS PTY LIMITED	CPB CONTRACTORS PTY LIMITED	FROM CAHILL EXPRESSWAY, WOOLLOOMOO TO LINK ROAD,, KENSINGTON, NSW 2033	Road construction	Not mapped	Not mapped
20699	Surrendered	ACCIONA INFRASTRUCTURE AUSTRALIA PTY LTD	ACCIONA INFRASTRUCTURE AUSTRALIA PTY LTD	CBD and South East Light Rail Alignment and Ancillary Sites, SYDNEY, NSW 2000	Land-based extractive activity	Not mapped	Not mapped
20971	Surrendered	JOHN HOLLAND PTY LTD	locations between Chatswood railway station and Sydenham railway station	locations between Chatswood railway station and Sydenham railway station, SYDNEY	Concrete works Railway infrastructure construction (>=50,000T & track to be constructed>10km & <30km)	Not mapped	Not mapped
21423	Issued	CPB CONTRACTORS PTY LIMITED	Systems Connect Line Wide Works	BETWEEN CHATSWOOD DIVE SITE AND SYDENHAM DIVE SITE, SYDNEY, NSW, 2000	Railway infrastructure construction (<50,000T)	Not mapped	Not mapped

If the record does not contain a complete street address and/or cannot be located, the records' geographic location will be approximated and reported as being within the surrounding area.

* Not mapped – Licences that are applied to larger areas and/or without specific definition; such as waterways, forests etc will still be identified in the search results but will not be shown within the map.

Audits, PRSA

N°	Type	Licence holder	Location Name	Premise Address	Activity	Dist. (m)*	Direction
Not identified	-	-	-	-	-	-	-

If the record does not contain a complete street address and/or cannot be located, the records' geographic location will be approximated and reported as being within the surrounding area.

Clean Up, Penalty Notices and Orders

N°	Type	Licence holder	Location Name	Premise Address	Details	Dist. (m)*	Direction
1555119	Penalty Notice	Powercor Network Services Pty Ltd	Powercor Network Services Pty Ltd	28 Foveaux Street, SURRY HILLS	Transport etc asbestos waste to unlawful facility - other - Corporation	855.9	West

If the record does not contain a complete street address and/or cannot be located, the records' geographic location will be approximated and reported as being within the surrounding area.

Table 3.2.1 Licences, Approvals & Assessments		
State	Regulatory Body	Information included in this search (by state)
ACT	EPA (Environment Protection Authority)	Environment Protection Authorisation Search Environment Protection Agreement Search
NSW	EPA (Environment Protection Authority)	POEO Public Register (Environment Protection licences, Applications, Notices, Audits or Pollution studies and Reduction Programs)
NT	EPA (Environment Protection Authority)	Environment Protection Licences and Approvals
QLD	DES (Department of Environment and Science)	Environmental Authorities
SA	EPA (Environment Protection Authority)	Licences or Authorisations (Licences, Exemptions and Works Approvals) Environment Protection Orders (EPO) and Clean Up Orders (CUO)
TAS	EPA (Environment Protection Authority)	Regulated Sites and Premises
VIC	EPA (Environment Protection Authority)	Permissions Register (Operating Licence, Permit and Registration) Audit Reports
WA	DWER (Department of Water and Environmental Regulation)	Licences and Works Approvals

3.3a SITES REGULATED BY OTHER JURISDICTIONAL BODY

Map 3.3a (2000m Buffer)

Contaminated Legacy Areas

Site Name	Description	Distance (m)	Direction
Not identified	-	-	-

Includes known contaminated areas such as James Hardies Asbestos waste legacy areas, Pasminco Smelter and Uranium processing site.

Defence, Military Sites and UXO Areas

Site name	Type*	Details	Distance (m)	Direction
Paddington; "Victoria barracks" land headquarters (RCIP 0402)	Regional Contamination Investigation Program (RCIP)	Elevated concentrations of lead related compounds exist in the area of the former rifle range. (Defence Regional Contamination Investigation Program (RCIP))	144.2	South-east

Site name	Type*	Details	Distance (m)	Direction
Sydney; defence site Sydney Remington centre (L)	Defence Area / Military Sites	The building is a large office complex built in 1975 and was occupied by the Regional Office of the Navy and Defence. Flag Officer Commanding Eastern Australia (FOCEA). and their staff were based here and was renamed Flag Officer Naval Support Command in 1979. (Source: Royal Australian Navy)	968.2	North-west
Defence Plaza Sydney	Defence Area / Military Sites	Site activities are limited to predominantly office/administration. (Source: www.defence.gov.au)	1379.9	North-west
Garden Island	Unexploded Ordnance (UXO)	Defence Controlled Area - National Unexploded Ordnance Program (NUXOP)	1476.0	North
Garden Island; Naval Dockyard Fleet HQ	Regional Contamination Investigation Program (RCIP)	Heavy metal contamination in soils and shallow sediments around the precinct is known to exist, from either historical land reclamation, or base operations. FSU-SE is housed in several large workshops fitted with machinery, plant and tools. (Regional Contamination Investigation Program (RCIP))	1476.0	North
Elizabeth Bay; TRESCO (Official Residence)	Defence Area / Military Sites	Tresco has National significance for its role as the principal residence of the Captain-in-Charge of HMA Naval Establishments in Sydney from 1903 and as the residence of the Flag Officer-in-Charge of the Royal Australian Navy since 1913. (Source: en.wikipedia.org)	1581.5	North-east
Potts Point; Jenner	Defence Area / Military Sites	The site was created in the 1866, In 1915 the building became a private hospital named Jenner. The hospital use continued until 1952 when the Royal Australian Navy took control of the building. (Source: en.wikipedia.org)	1710.7	North
HMAS Rushcutter	Defence Area / Military Sites	Use of the Rushcutters Bay Park by the Navy dates to 1901. The site was chosen for the NSW Naval Brigade (formed under the Volunteer Force Regulation Act of 1867). A requirement was for a waterfront site within marching distance from Victoria Barracks in Paddington, so the location chosen was the nearest Sydney Harbour Bay to the barracks. (Source: Naval Historical Society of Australia)	1728.4	North-east
Potts Point; HMAS Kuttabul	Defence Area / Military Sites	Kuttabul provides administrative, training, logistics and accommodation support to naval personnel assigned to the various facilities that form Fleet Base East, the main operational navy base on the east coast of Australia.(Navy, Australian Government Defence)	1750.2	North

*RCIP (Regional Contamination Investigation Program). UXO (Unexploded Ordnance Areas)

Former Gasworks Sites

Site name	Description	Distance (m)	Direction
Former Gaswork - White City	In 1903 the AGL company bought land for a gasometer near New South Head Road. The White City Club (WCC) was established in 1948 as a licensed club unlike the original NSWLTA. The NSWLTA purchased the gasometer site to the west of the club house on New	1126.2	North-east

Site name	Description	Distance (m)	Direction
	South Head Road from the AGL Company. Analysis of historical aerial imagery captured in 1950's. (White City Development Control Plan, 2007 Land Insight Research)		
The Australian Gaslight Yard Co Former Gaswork	Four large brick piers together with part of the area of the backfilled tank and concentric circles of timbers laid at the base of the tank were found. (Land Insight Research)	1203.6	West
Former Central Station Gasworks	Three railway associated gasworks in operation between 1878 and 1905. Location of former infrastructure is approximate based on historical report. Gasworks 1, western most location. Gasworks 2, immediately south west of platforms 14 & 15. Gasworks 3 approximately 150m southwest of Gasworks 2. (Central Station Main Works: Contamination Assessment Design Report, AGJV June 2019)	1318.0	West
Former Gaswork	One of the first gas holders to be erected for the Australian Gas Company at the rear of Haymarket Anthony Hordern's Store on 689 george street. 'It dominated Pitt Street South from 1879 to 1916'. (State Library of NSW)	1362.9	West

PFAS Sites

Site name	Type	Details	Distance (m) *	Direction
WOOLLAHRA FIRE STATION	Potential historical use of PFAS.	Potential historical use of PFAS.	1929.8	East

3.3b OTHER POTENTIAL HAZARD SOURCES

Map 3.3b (500m Buffer)

Mines and Quarries (current and historical)

Site name	Description	Status	Distance (m)	Direction
Not identified	-	-	-	-

Landfills (current and historical)

Site name	Description	Status	Distance (m)	Direction
Not identified	-	-	-	-

National Pollutant Inventory (NPI)

Facility name	Address	Primary ANZSIC Class	Latest report	Distance (m)	Direction
Not identified	-	-	-	-	-



Section 4 Potentially Contaminated Areas



4.1 POTENTIALLY CONTAMINATING ACTIVITIES

Map 4.1 (200m Buffer)

Industries, businesses and activities that may cause contamination

Map ID	Site name	Category	Description	Address	Status*	Dist. (m)*	Direction
2	AAA Mr Rubbish Removals	Waste and Recycling Facilities	Rubbish & Waste Removal	12 Napier St PADDINGTON2021NSW	Current	29.0	South-west
3	7-Eleven	Petrol Stations and Fuel Terminals	Petrol Station	59 Oxford St, Paddington NSW 2021	Current	71.4	South-east
5	Eurostar Dry Cleaners	Dry Cleaners	Dry cleaner	249 Oxford St, Darlinghurst NSW 2010	Current	123.1	North-west
6	Woolys Wheels	Mechanical and Automotive	Bicycle Shop	82 Oxford St, Paddington NSW 2021	Current	123.3	South-east
1	St Vincent's Private Hospital	Manufacturing and Industrial Facilities	Hospitals - Private	406 Victoria St TAYLOR SQUARE2010NSW	Current	147.7	North
7	Steela	Manufacturing and Industrial Facilities	Steel fabricator	96 Oxford St, Paddington NSW 2021	Current	157.1	South-east
4	St Vincent's Hospital Sydney	Manufacturing and Industrial Facilities	Hospitals - Public	390 Victoria St TAYLOR SQUARE2010NSW	Current	168.0	North

***Status:** Information is current as when this report was created.

The operational status of the business is determined using the available data sources and does not indicate real-time conditions at the site.

Current: business is operating on the day this report was issued.

Former: business that have been closed or discontinued within 2 years from the date of this report.

Categories included in this search. (Notifiable activities)

Abattoirs	Explosives and Dangerous Goods	Paint Industries
Abrasive Blasting	Extractive Industries	Petrol Stations
Agriculture / Horticulture	Fire and Rescue	Pharmaceuticals
Airports	Food Manufacturing	Port and Marina Operations

Categories included in this search. (Notifiable activities)		
Asbestos	Foundry, Smelting or Refining	Power Plants
Asphalt or Bitumen	Fuel Terminals & Depots	Printing and Photography
Batteries	Glass, Ceramics and Plastic	Rail Industry and Associated Activities
Breweries / Distilleries	Gun, Pistol or Rifle Ranges	Rubber and Tyre
Cement, Concrete or Lime	Hospitals and Research Facilities	Storage Tanks
Cemeteries	Landfill Sites	Substations and Switching Stations
Chemicals	Livestock Dips	Textiles and Tannery
Coal Yards	Mechanical and Automotive	Timber, Pulp and Paper Works
Depots and Storage Yards	Metal Fabrication and Treatments	Waste and Recycling Facilities
Dry Cleaners	Oil and Gas	Wastewater Treatment Facilities
Electrical or Electrical Components	Other Infrastructure Facilities	-

Industries, businesses, and activities identified as having an increased likelihood of causing contamination.

The industries and business activities listed above have been identified as having an increased likelihood of causing contamination and have been identified through published state and national guidelines and regulations. These industries are noted due to their potential to store or use substances that could cause contamination to the surrounding environment if not managed appropriately. The identification of these activities does not imply the presence of contamination at the site.

The records identified are based on the reported business activity and have not been assessed based on any current or previous site inspection. Please note that records not identified within this section (due to error or unforeseen omission) does not necessarily mean that the screened area is not potentially contaminated or free of any risks.

4.2 HISTORICAL BUSINESS DIRECTORIES

(not mapped)

YEA R	Activity	Name	Address	Position al accurac y	Distan ce (m)	Directio n
1980	Photographers--General	Barrett Greg Photography	2 Verona St.,Paddington,NSW	Address	0.0	Onsite
200 5	Advertising Agencies; Advertising-General	Acmn Pty Ltd	2 Verona St (Level 1),PADDINGTON,NSW,2021	Address	0.0	Onsite
2015	Home Theatre & Cinema Installation & Sales	Verona Cinema	17 Oxford St Paddington NSW 2021	Address	15.0	North- east
1950	Painters, Decorators & Glaziers	Berg F	17 Rose Terrace,Paddington,NSW	Address	17.6	South- west
1940	Hardware - Retail	Crandon O	19 Oxford Street,Sydney,NSW	Address	21.8	East
1950	Optical Supplies	Sun-Art Manufacturing Co	15a Oxford Street,Sydney,NSW	Address	23.6	North- east
1950	Motor Service Stations	Wilson E E	13 Oxford,Paddington,NSW	Address	23.6	North- east
1950	Building Materials - Second-hand	Dwyer JP	13 Oxford,Paddington,NSW	Address	23.6	North- east
1950	Motor Cars & Trucks-New	Brymots (N.S.W.) Pty Ltd	13 Oxford,Paddington,NSW	Address	23.6	North- east
1965	Sheet Metal Workers	Dell F G	15,Oxford,NSW	Address	23.6	North- east
1965	Bath Heaters	DELL F G	15,OxfordSt,NSW	Address	23.6	North- east
1965	Clothing—Frock Mfrs	Broome J C Pty Ltd	15,Oxford,NSW	Address	23.6	North- east
1970	MOTOR SERVICE STATIONS—PETROL, OIL, Etc. PADDINGTON	Paddington Auto Port,	13 Oxford St.,NSW	Address	23.6	North- east
1970	TEXTILE AGENTS	James, Hare, Scott Pty. Ltd.	13 Oxford St.,NSW	Address	23.6	North- east
1970	Motor Service Stations	Paddington Auto Port	13 Oxford Street,Paddington,NSW	Address	23.6	North- east
1970	MOTOR ACCESSORIES/DEALERS	Paddington Auto Port,	13 Oxford St.,NSW	Address	23.6	North- east
1970	CLOTHING MFRS. &/OR W'SALERS —LADIES' COATS & COSTUMES	Broome, J. C. 4. Co.,	13-15 Oxford St.,NSW	Address	23.6	North- east
1970	TEXTILE AGENTS	Spackman, G. E.,	13 Oxford St.,NSW	Address	23.6	North- east
1980	Motor Service Stations & Garages	Shell Service Stations	13 Oxford St.,Paddington,NSW	Address	23.6	North- east
1980	Motor Service Stations & Garages	Paddington Auto Port	13 Oxford St.,Paddington,NSW	Address	23.6	North- east
1990	Motor Service Stations & Garages	Paddington Auto Port	13 Oxford,Paddington,NSW	Address	23.6	North- east
1950	Filters	Industrial Equipment (A/Sia) Pty Ltd	17 Oxford Street,Paddington,NSW	Address	27.1	North- east
1970	Paper Mfrs.	Industrial Equipment Pty Ltd	17 Oxford Street,Paddington,NSW	Address	27.1	North- east
1970	FILTRATION SUPPLIERS	Industrial Equipment (A'sia.) Pty. Ltd.,	17 Oxford St.,Darlinghurst	Address	27.1	North- east
1980	Paper Mfrs &/or W'salers	Industrial Equipment Pty Ltd	17 Oxford St.,Paddington,NSW	Address	27.1	North- east

YEA R	Activity	Name	Address	Position al accurac y	Distanc e (m)	Directio n
1980	Mixing Equipment - Industrial	Industrial Equipment Pty Ltd	17 Oxford St.,Paddington,NSW	Address	27.1	North-east
1980	Filtering Materials & Supplies	Ekquip Filters (Industrial Equipment Pty Ltd)	17 Oxford St.,Paddington,NSW	Address	27.1	North-east
2005	Cinemas	Verona Cinema	17 Oxford St,PADDINGTON,NSW,2021	Address	27.1	North-east
2005	Cinemas	Palace Cinemas, Paddington	17 Oxford St,PADDINGTON,NSW,2021	Address	27.1	North-east
1965	Timber Merchants	Sugar E	18,Napier,NSW	Address	32.9	South-west
1940	Motor Hire Services	Uneeda Motor Service&Filling Station	25 Oxford Street,Paddington,NSW	Address	34.2	South-east
1940	Petrol Pumps	Handley E H&Co Pty Ltd	25 Oxford Street,Paddington,NSW	Address	34.2	South-east
1950	Motor Cars & Trucks-Used	Barrack Motors	25 Oxford Street,Paddington,NSW	Address	34.2	South-east
1970	Carriers Light	Paddington Taxi Truck	25 Oxford,Paddington,NSW	Address	34.2	South-east
1970	Motor Service Stations	Barrack Motors	25 Oxford Street,Paddington,NSW	Address	34.2	South-east
1970	Motor Service Stations	Esso Australia Ltd	25 Oxford Street,Paddington,NSW	Address	34.2	South-east
1970	Motor Cars - Used	Barrack Motors	25 Oxford Street,Paddington,NSW	Address	34.2	South-east
1980	Carriers - Light	Paddington Taxi Truck	25 Oxford St.,Paddington,NSW	Address	34.2	South-east
1980	Motor Service Stations & Garages	Barrack Motors	25 Oxford St.,Paddington,NSW	Address	34.2	South-east
1940	Optical Supplies	BIFOCALS PTY LTD	9 Oxford Street,Sydney,NSW	Address	37.6	North
1950	Hardware - Retail	Buckingham's Ltd	9 Oxford Street,Sydney,NSW	Address	37.6	North
1950	Optical Supplies	Bifocals	9 Oxford Street,Sydney,NSW	Address	37.6	North
1965	Dental Laboratories	Eastern Suburbs Dental Laboratory	11,Oxford,NSW	Address	37.6	North
1965	Radio—Motor Car	Roadmaster Car Radio Services	11,Oxford,NSW	Address	37.6	North
1965	Dry Cleaners & Dyers	Marks Universal Dry Cleaners	9,Oxford,NSW	Address	37.6	North
1965	Electrical Contractors	Kimpton G E	5,Oxford,NSW	Address	37.6	North
1970	COTTON, TEXTILE & PIECE GOODS IMPS. &/OR DIST.	Vogel, L.&Son Pty. Ltd.,	9-11 Oxford St.,Sydney	Address	37.6	North
1970	BOOT & SHOE REPAIRERS	Hoffler, K.,	7 Oxford St.,NSW	Address	37.6	North
1970	COTTON, TEXTILE & PIECEGOODS MFRS. &/OR W'SALERS	Vogel, L.&Son Pty. Ltd.,	9-11 Oxford St.,Sydney	Address	37.6	North
2005	Cinemas	Academy Twin Cinema	3a Oxford St,PADDINGTON,NSW,2021	Address	37.6	North
2005	Cinemas	Palace Cinemas	3a Oxford St,PADDINGTON,NSW,2021	Address	37.6	North

YEA R	Activity	Name	Address	Position al accurac y	Distanc e (m)	Directio n
2015	Building - Supplies & Hardware	Dept Of Education and Training	1 Oxford St Darlinghurst NSW 2010	Address	41.4	North
2015	Chemists - Retail Pharmacies	Priceline Pharmacy - Oxford St	1 Oxford St Darlinghurst NSW 2010	Address	41.4	North
1930	Motor Service Stations	Uneeda Motor service	27 Oxford Street,Paddington,NSW	Address	58.4	South-east
2005	Promotional Products	Tonic Promotions	42 Napier St,PADDINGTON,NSW,2021	Address	59.7	South-east
1950	Motor-Drive Yourself Service	Self Drive Cars Pty Ltd	250 Dowling,Sydney,NSW	Address	60.4	North-west
1965	Carriers—Heavy	Niemeier R&C	11,AddingtonAv,NSW	Address	63.6	North-east
2010	Wigs Hairpieces & Hair Extensions	The Individual Wig	32 Oxford St SYDNEY 2000 NSW	Address	67.6	North-east
1965	Television Receivers—Repairs & Service	Epping Radio & Television	10,Oxford,NSW	Address	69.4	North
1965	Radio—Motor Car	Roberts Epping Radio Television	10,Oxford,NSW	Address	69.4	North
1965	Radio Repairs & Service	EPPING RADIO & TELEVISION	10,Oxford,NSW	Address	69.4	North
1965	Radio—Motor Car	EPPING RADIO & TELEVISION	10,Oxford,NSW	Address	69.4	North
1965	Butchers	ANDREWS MEAT CO	10,OxfordSt,NSW	Address	69.4	North
1965	Butchers	Albury Meat Co	10,Oxford,NSW	Address	69.4	North
1970	Butchers-W'sale	Andrew's Meat Co Pty Ltd	10 Oxford Street,Paddington,NSW	Address	69.4	North
1970	Butchers-W'sale	Albury Meat Co	10 Oxford Street,Paddington,NSW	Address	69.4	North
1980	Butchers - W'sale	Albury Meat Co	10 Oxford St.,Paddington,NSW	Address	69.4	North
1940	Hat & Cap Mfrs &/or Wholesalers	Sharp J G	48 Oxford Street,Paddington,NSW	Address	70.5	North-east
1970	Clothing-Babies'Wear Mfrs. &/or W'salers	Fautley T & A & Sons Pty Ltd	48 Oxford Street,Paddington,NSW	Address	70.5	North-east
1970	Clothing-Children's Wear Mfrs. &/or W'salers	Fautley T & A & Sons Pty Ltd	48 Oxford Street,Paddington,NSW	Address	70.5	North-east
1970	Vacuum Cleaners-Industrial	Astro-Vac (Aust) Pty Ltd	48 Oxford Street,Paddington,NSW	Address	70.5	North-east
1970	Electronic Engineers	Kenelec Systems Pty Ltd	48 Oxford Street,Paddington,NSW	Address	70.5	North-east
1970	Footwear-Mfrs. &/or W'salers	Fautley T & A & Sons Pty Ltd	48 Oxford Street,Paddington,NSW	Address	70.5	North-east
1980	Footwear - Mfrs &/or W'salers	Fautley T & A & Sons Pty Ltd	48 Oxford St.,Paddington,NSW	Address	70.5	North-east
1970	CLOTHING MFRS. &/OR W'SALERS —GENERAL	Adelstels Pty. Ltd.,	31 Oxford St.,NSW	Address	70.6	East
1965	Washing Machines	NORTHERN DISTRICTS WASHING MACHINE REPAIRS	24,OxfordSt,NSW	Address	70.8	North-east
1965	Butchers	Centennial Butchery	24,Oxford,NSW	Address	70.8	North-east
1970	Plan Printers	Darlinghurst Art Center	24 Oxford Street,Paddington,NSW	Address	70.8	North-east

YEA R	Activity	Name	Address	Position al accurac y	Distanc e (m)	Directio n
1970	CLOTHING MFRS. &/OR W'SALERS —MEN'S &BOYS' WEAR	Gulliver Tailoring Mfg. Co.,	24 Oxford St.,NSW	Address	70.8	North- east
1980	Plan Printers	Darlinghurst Art Centre Pty Ltd	24 Oxford St.,Paddington,NSW	Address	70.8	North- east
1980	Printers - General	Darlinghurst Art Centre Pty Ltd	24 Oxford St.,Paddington,NSW	Address	70.8	North- east
201 0	Plan Printing & Copying Equipment & Services	Dac Plan Printing	24 Oxford St PADDINGTON 2021 NSW	Address	70.8	North- east
1940	Stores - General	Collins G E	333 Dowling Street,Darlinghurst,NSW	Address	70.9	North- west
1970	MIXED BUSINESSES	Vitlello, S.,	333 Dowling St.,Darlinghurst	Address	70.9	North- west
200 5	Pet Shops	Animal Antics Pet & People Store	333 South Dowling St,DARLINGHURST,NSW,2010	Address	70.9	North- west
200 5	Wigs & Hairpieces	The Individual Wig, Sydney	32 Oxford St,SYDNEY,NSW,2000	Address	71.0	North- east
201 0	Jewellery Designers	Jason Moss Jewellery Design	331 South Dowling St DARLINGHURST 2010 NSW	Address	71.1	North- west
1940	Clothing - Dressing Gown Mfrs.	Rodell A	58 Oxford Street,Sydney,NSW	Address	71.6	East
1940	Clothing - Frock Mfrs	Rushall N G&Co	58 Oxford Street,Sydney,NSW	Address	71.6	East
1940	Tailors - Manufacturing	Sharp M	58 Oxford Street,Sydney,NSW	Address	71.6	East
1940	Tailors - Manufacturing	Stern M	58 Oxford Street,City,NSW	Address	71.6	East
1950	Clothing - Sportswear Mfrs. &/or W'salers	Rushall N G&Co	58 Oxford Street,Sydney,NSW	Address	71.6	East
1950	Sportswear	Mary Fashions	58 Oxford Street,Sydney,NSW	Address	71.6	East
1965	Carpenters & Joiners	Gray R A	58,Oxford,NSW	Address	71.6	East
1965	Clothing—Mfrs. &/or Wsalers	ECLIPSE CREATIONS PTY LTD	58,Oxford,NSW	Address	71.6	East
1965	Tailors—Manufacturing	Sharp M&Sons Pty Ltd	58,Oxford,NSW	Address	71.6	East
1980	Restaurant Equipment & Supplies	Almos Fish Café	58 Oxford St.,Sydney,NSW	Address	71.6	East
1940	Laundries	Olympia Laundry	335 Dowling Street,Sydney,NSW	Address	71.8	West
1950	Uniforms	White Clothing Industries	335-37 Dowling Street,Darlinghurst,NSW	Address	71.8	West
1965	Exporters	Nirex Pty Ltd	335,Dowling,NSW	Address	71.8	West
1965	Sporting Goods—Mfrs. &/or W'salers	NIREX PTY LTD	335-337,DowlingSt,NSW	Address	71.8	West
1970	SPORTS GOODS W'SALERS	Nirex Pty. Ltd.,	335-337 Dowling St.,Darlinghurst	Address	71.8	West
1950	Gloves - Mfrs &/or Wsalers	Ladd H V	46 Oxford Street,Paddington,NSW	Address	72.3	North- east
1970	Clothing-Glove Mfrs. &/or W'salers	Ladd H V & L	46 Oxford Street,Paddington,NSW	Address	72.3	North- east
1970	GLOVE MFRS.— INDUSTRIAL	Ladd, H. V. & L.,	46 Oxford St.,NSW	Address	72.3	North- east
1940	Grocers - Retail	Bailey G	327 Dowling Street,Darlinghurst,NSW	Address	72.4	North- west

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1965	Grocers—Retail	Oliver R	327,Dowling,NSW	Address	72.4	North- west
200 5	Photographic Equipment & Supplies--W'salers & Mfrs	Just Shoot	327 South Darling St,DARLINGHURST,NSW,1300	Address	72.4	North- west
1950	Dental Laboratories	Browne Edgar T	54 Oxford Street,Paddington,NSW	Address	73.5	East
201 0	Photography Processing Services - Domestic	Platinum Imaging	54 Oxford St PADDINGTON 2021 NSW	Address	73.5	East
2015	Photography Processing Services - Domestic	Platinum Imaging	54 Oxford St Paddington NSW 2021	Address	73.8	North- east
1940	Towing Stations	Flinders Towing Service	36 Oxford Street,Paddington,NSW	Address	74.0	North- east
201 0	Mobile Telephones - Service & Repairs	Australian Mp3 Repairs	327 South Dowling St DARLINGHURST 2010 NSW	Address	74.3	North- west
1930	Printers	Powter AF	329 Dowling Street,Sydney,NSW	Address	76.1	North- west
1930	Electrical & Mechanical Manufacturing Engineers	Harrison R	52 Oxford Street,Paddington,NSW	Address	76.2	North- east
1940	Electrical Contractors	Harrison R	50 Oxford Street,Paddington,NSW	Address	76.2	North- east
1950	Engineers - Electrical	Harrison R	50 Oxford Street,Paddington,NSW	Address	76.2	North- east
1965	Builders & Contractors	Moxon Bros	52,OxfordRd,NSW	Address	76.2	North- east
1965	Electrical Contractors	HARRISON ROY PTY LTD	48-52,Oxford,NSW	Address	76.2	North- east
1965	Lighting	HARRISON ROY PTY LTD	48-52,Oxford,NSW	Address	76.2	North- east
1970	Tyre Retreading Machinery Mfrs.	Harrison Roy Pty Ltd	50 Oxford Street,Paddington,NSW	Address	76.2	North- east
1970	ENGINEERS—AIR CONDITIONING	Harrison, Roy Pty. Ltd.,	50 Oxford St,, Paddington,NSW	Address	76.2	North- east
200 5	Dry Cleaners	Westley Dry Cleaners	55 Oxford St,DARLINGHURST,NSW,2010	Address	76.4	North
200 5	Footwear Repairs	Michael's Shoe Repairs	Shp 26 55 Oxford St,DARLINGHURST,NSW,2010	Address	76.4	North
200 5	Fruiterers & Greengrocers	Duffy Bros The Country Fresh Markets, Darlinghurst	55-57 Oxford St,DARLINGHURST,NSW,2010	Address	76.4	North
1930	Motor Engineers and Repairers	Kelly's Motor & Engineering Works	66 Oxford Street,Sydney,NSW	Address	77.3	East
1965	Potteries	Sullivan&Griffiths	66,Oxford,NSW	Address	77.3	East
1965	Storage—General	Bolot L M	66,Oxford,NSW	Address	77.3	East
1965	Chemical Mfrs. &/or Druggists—W'sale	ILLINOIS LABORATORIES	42-44,Oxford,NSW	Address	78.5	North- east
1965	Clothing—Babies' Wear— Mfrs. &/or W'salers	FAUTLEY T & A & SONS PTY LTD	42-44,OxfordSt,NSW	Address	78.5	North- east
1970	HANDBAG/GLOVE SPECIALISTS	Eva Handbags,	42 Oxford St,, Paddington,NSW	Address	78.5	North- east
1970	DRY CLEANERS, PRESSERS/ DYERS	Paddington Norge Village,	42-44 Oxford St.,NSW	Address	78.5	North- east
1970	TEXTILE MACHINERY MFRS. &/OR DISTRIBUTORS	Black, George Pty. Ltd.	42-44 Oxford St.,NSW	Address	78.5	North- east

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1970	Cotton	Black George Pty Ltd	42 Oxford Street,Paddington,NSW	Address	78.5	North-east
1970	Ladies' Handbags-Mfrs. &/or Wholesalers	Eva Bags	42 Oxford Street,Paddington,NSW	Address	78.5	North-east
1970	Machinery-Textile	Black George Pty Ltd	42 Oxford Street,Paddington,NSW	Address	78.5	North-east
1970	Yarns-Mfrs. &/or W'salers	Black George Pty Ltd	42 Oxford Street,Paddington,NSW	Address	78.5	North-east
1970	Furriers-Mfrg. &/or W'sale	Eva Bags	42 Oxford Street,Paddington,NSW	Address	78.5	North-east
1970	Clothing-Belts-Apparel-Mfrs. &/or W'salers	Belt-Tex Products	42 Oxford Street,Paddington,NSW	Address	78.5	North-east
1980	Textile Machinery	Black George Pty Ltd	42 Oxford St.,Paddington,NSW	Address	78.5	North-east
1980	Clothing - Belts - Apparel - Mfrs. &/or W'salers	Belt-Tex Products	42 Oxford St.,Paddington,NSW	Address	78.5	North-east
2010	Greengrocers & Fruiterers	Limetime	60 Oxford PADDINGTON 2021 NSW	Address	79.2	East
1950	Laundries	Dorothea Laundry	60 Oxford,Paddington,NSW	Address	79.3	East
1970	Artists-Commercial	Process Art Studio	60 Oxford Street,Paddington,NSW	Address	79.3	East
1970	Display & Exhibition Equipment & Supplies	Artra Displays	26a Oxford Street,Paddington,NSW	Address	79.4	North-east
1970	PHOTOGRAPHIC DEVELOPING, PRINTING/COLOURING SERVICES	Photo James,	323 Dowling St.,Darlinghurst	Address	80.7	North-west
1980	Photographers--General	James Studio	323 Dowling St.,Darlinghurst,NSW	Address	80.7	North-west
1965	Fruiterers & Greengrocers	Rosa O	7,EdgeciffRd,NSW	Address	81.8	South-east
1930	Dyers & Cleaners	Cross J	36a Oxford Street,Paddington,NSW	Address	82.3	North-east
2005	Clothing--Binding Suppliers	Quack Clothing	319-321 South Dowling St,DARLINGHURST,NSW,2010	Address	82.4	North-west
1950	Motor Cars & Trucks-Used	Spalding W R	16 Oxford,Paddington,NSW	Address	82.6	North
1950	Motor Car Auctions	Spalding Motor Auctions	16-20 Oxford Street,Paddington,NSW	Address	82.6	North
1970	FOUNDATION GARMENTS	Winns Ltd..	16-30 Oxford St.,NSW	Address	82.6	North
2015	Jewellery Designers	Jason Moss Jewellery Design	325 South Dowling St Darlinghurst NSW 2010	Address	82.6	North-west
2010	Greengrocers & Fruiterers	Duffy Bros The Country Fresh Markets	55- 57 Oxford St DARLINGHURST 2010 NSW	Address	82.9	North
1940	Grocers - Retail	Gundel Paul	22a Oxford Street,Paddington,NSW	Address	83.2	North-east
1965	Photographers—General	Spyroti G	22,Oxford,NSW	Address	83.2	North-east
1970	PHOTOGRAPHERS—PORTRAIT	Alfa Foto Studios,	22 Oxford St.,NSW	Address	83.2	North-east
2015	Chemists - Retail Pharmacies	Pharmacist Advice	6 Oxford St Woollahra NSW 2025	Address	88.5	North
2015	Chemists - Retail Pharmacies	Bell John Chemist	6 Oxford St Woollahra NSW 2025	Address	88.5	North
2015	Chemists - Retail Pharmacies	Bell John Pharmacy	6 Oxford St Woollahra NSW 2025	Address	88.5	North

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2015	Photographer - General	Bear Studios Pty Ltd	62 Holdsworth La Paddington NSW 2021	Address	89.2	North-east
1965	Motor Cars & Trucks—Used	Kecskes M	20,Oxford,NSW	Address	89.9	North
1965	Carriers—Heavy	Jones W R	20,Oxford,NSW	Address	89.9	North
1970	PEN MANUFACTURERS &/OR IMPORTERS	Dasi Pen Pty. Ltd,	20 Oxford St.,Darlinghurst	Address	89.9	North
1990	Motor Cars-Used	D & G Used Cars	20 Oxford,Paddington,NSW	Address	89.9	North
1970	Artists-Commercial	Model Supplies	39 Taylor Street,Darlinghurst,NSW	Address	90.2	West
2010	Photographer - General	Bear Studios Pty Ltd	62 Holdsworth La PADDINGTON 2021 NSW	Address	90.3	East
1965	Motor Garages	Tyson's Garage	2a,WestAv,NSW	Address	92.9	North-east
2005	Sporting Goods--Retail & Repairs	Puma	2-8 Oxford St,PADDINGTON,NSW,2021	Address	93.4	North
2005	Refrigeration--Commercial & Industrial--Retail & Service	Paddington Electronics Pty Ltd	70a Oxford St,PADDINGTON,NSW,2021	Address	95.8	East
2010	Refrigeration - Industrial & Commercial Sales & Service	Paddington Electronics Pty Ltd	70A Oxford St PADDINGTON 2021 NSW	Address	95.8	East
1940	Fruiterers & Greengrocers	Lombardo P	72 Oxford Street,Paddington,NSW	Address	97.0	East
2005	Clothing Alterations & Mending	Harriets	72 Oxford St,PADDINGTON,NSW,2021	Address	97.0	East
1950	Drainers	Holmes L S	363 Dowling Street,Sydney,NSW	Address	97.1	South-west
1965	Grocers—Retail	Robertson D G	60,Taylor,NSW	Address	97.5	North-west
2010	Home Health Care Equipment & Aids	Moda Mobility	263 Oxford St DARLINGHURST 2010 NSW	Address	101.0	North-west
2010	Motor Cycle - New Parts & Accessories Retail	Moda Scooters	263 Oxford St DARLINGHURST 2010 NSW	Address	102.9	North-west
1940	Stores - General	Simmons T Mrs	168 Dowling Street,Waterloo,NSW	Address	103.8	South-west
1950	Motor Engineers & Repairers	Ace Auto Ambulance Agencies	178 Dowling,Waterloo,NSW	Address	103.8	South-west
1950	Engineers - Hydraulic	Hydraulic Power Electric & Hydraulic Lifts Ltd	182-204 Dowling Street,Waterloo,NSW	Address	103.8	South-west
1950	Motor Service Stations	Flinders Motor Sales & Service	178 Dowling,Waterloo,NSW	Address	103.8	South-west
1950	Towing Station	Simpson H S&K	178 Dowling Street,Waterloo,NSW	Address	103.8	South-west
1950	Motor Cars & Trucks-Used	Flinders Motor Sales & Service	178 Dowling,Waterloo,NSW	Address	103.8	South-west
1950	Towing Station	Ace Auto Ambulance Agencies	178 Dowling Street,Waterloo,NSW	Address	103.8	South-west
1950	Stores - General	Simmons T Mrs	168 Dowling Street,Waterloo,NSW	Address	103.8	South-west
1950	Lifts	Hydraulic Power Electric &	182-204 Dowling Street,Waterloo,NSW	Address	103.8	South-west

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		Hydraulic Lifts Ltd				
1970	NEWSPAPERS/PERIODICALS	Group Publications Pty. Ltd.,	263 Oxford St.,Darlinghurst	Address	103.8	North-west
1970	PUBLISHERS	Group Publications Pty. Ltd.,	263 Oxford St.,Darlinghurst	Address	103.8	North-west
1970	Manufacturers	Fabridam of Aust Pty Ltd	263 Oxford Street,Darlinghurst,NSW	Address	103.8	North-west
1970	NEWSPAPER PUBLISHERS	Group Publications Pty. Ltd.,	263 Oxford St.,Darlinghurst	Address	103.8	North-west
1970	NEWSPAPERS/PERIODICALS	Kings Cross Whisper Pty. Ltd.,	263 Oxford St.,Darlinghurst	Address	103.8	North-west
2005	Motor Cycles, Parts & Accessories--Retail; Home Health Care Aids & Equipment	Moda Mobility	263 Oxford St,DARLINGHURST,NSW,2010	Address	103.8	North-west
2005	Motor Cycles, Parts & Accessories--Retail	Moda Scooters	263 Oxford St,DARLINGHURST,NSW,2010	Address	103.8	North-west
2015	Cosmetic Retailers	Aesop	72 Oxford St Paddington NSW 2021	Address	105.1	East
2005	Recording Services	Jaminajar Music Production	3 West St,PADDINGTON,NSW,2021	Address	106.2	North-east
2010	Make-Up Artists Products & Supplies	Napoleon Makeup Academy.	74 Oxford St PADDINGTON 2021 NSW	Address	107.5	East
2010	Make-Up Artists Products & Supplies	Paddington Concept Store	74 Oxford St PADDINGTON 2021 NSW	Address	107.5	East
2010	Make-Up Artists Products & Supplies	The Look By Napoleon	74 Oxford St PADDINGTON 2021 NSW	Address	107.5	East
2010	Make-Up Artists Products & Supplies	Look By Napoleon The	74 Oxford St PADDINGTON 2021 NSW	Address	107.5	East
1970	Printers - Lithographic	Halkeas Printing Pty Ltd	58 Taylor Street,Darlinghurst,NSW	Address	108.3	North-west
1970	Printers - Letterpress	Dixon F	58 Taylor Street,Darlinghurst,NSW	Address	108.3	North-west
1970	Printers - Letterpress	Halkeas Printing Pty Ltd	58 Taylor Street,Darlinghurst,NSW	Address	108.3	North-west
1970	Printers - Letterpress	Kerry Press	58 Taylor Street,Darlinghurst,NSW	Address	108.3	North-west
1970	Clothing-Bridal Supplies-Mfrs. &/or W'salers	Belvera Fashions Pty Ltd	58 Taylor Street,Darlinghurst,NSW	Address	108.3	North-west
1970	PRINTERS—LETTERPRESS	Halkeas, S.,	58 Taylor St.,Darlinghurst	Address	108.3	North-west
1970	Clothing-Dress Mfrs. &/or W'salers	Belvera Fashions Pty Ltd	58 Taylor Street,Darlinghurst,NSW	Address	108.3	North-west
1970	Motor Engineers & Repairers	Tonwal Motor Repairs	58 Taylor Street,Darlinghurst,NSW	Address	108.3	North-west
1970	Printers - Continuous Stationery & Equipment	Halkeas Printing	58 Taylor Street,Darlinghurst,NSW	Address	108.3	North-west
1980	Clothing - Dress Mfrs. &/or W'salers	Belvera Fashions Pty Ltd	58 Taylor St.,Darlinghurst,NSW	Address	108.3	North-west
1980	Printers - General	Dixon F Printers Pty Ltd	58 Taylor St.,Darlinghurst,NSW	Address	108.3	North-west
1980	Printers - General	Kerry Press	58 Taylor St.,Darlinghurst,NSW	Address	108.3	North-west

YEA R	Activity	Name	Address	Position al accurac y	Distan ce (m)	Directio n
1980	Motor Engineers & Repairers	Tomwall Auto Services Pty Ltd	58 Taylor St.,Darlinghurst,NSW	Address	108.3	North-west
1990	Motor Engineers & Repairers	Adams Lindsay Auto Services Pty Ltd	58 Taylor Street,Darlinghurst,NSW	Address	108.3	North-west
2015	Bicycles & Accessories - Retailers & Repairers	The Bike Bar	58 Taylor St Darlinghurst NSW 2010	Address	108.5	North-west
2010	Bicycles & Accessories - Retailers & Repairers	The Bike Bar	58 Taylor St DARLINGHURST 2010 NSW	Address	108.9	North-west
1940	White Ant Exterminators	Cyanafume Services	74 Oxford Street,Paddington,NSW	Address	109.2	East
1940	Fumigators	CYANAFUME SERVICES	74 Oxford Street,Paddington,NSW	Address	109.2	East
1950	Carriers-Light	A & A Fumigation Service	74 Oxford Street,Paddington,NSW	Address	109.2	East
1950	Fumigators	A & A Fumigation Service	74 Oxford Street,Paddington,NSW	Address	109.2	East
2005	Make-Up Artists & Supplies	The Look By Napoleon	74 Oxford St,PADDINGTON,NSW,2021	Address	109.2	East
2005	Make-Up Artists & Supplies; Make-Up Colleges	Napoleon Makeup Academy.	74 Oxford St,PADDINGTON,NSW,2021	Address	109.2	East
2015	Make-Up Artists Products & Supplies	Napoleon Perdis Makeup Academy	74 Oxford St Paddington NSW 2021	Address	112.2	East
2015	Make-Up Artists Products & Supplies	Look By Napoleon The	74 Oxford St Paddington NSW 2021	Address	112.2	East
2015	Make-Up Artists Products & Supplies	Napoleon Makeup Academy.	74 Oxford St Paddington NSW 2021	Address	112.2	East
1970	Metal Merchants	Academy Metal Co	200 Boundary Street,Paddington,NSW	Address	112.9	North-east
1970	Scrap Metal Merchants	Academy Metal Co	200 Boundary Street,Paddington,NSW	Address	112.9	North-east
1980	Scrap Metal Merchants	Academy Metals	200 Boundary St.,Paddington,NSW	Address	112.9	North-east
1980	Scrap Metal Merchants	Sands M	200 Boundary St.,Paddington,NSW	Address	112.9	North-east
1980	Metal Merchants	Academy Metal Co	200 Boundary St.,Paddington,NSW	Address	112.9	North-east
1980	Hot tubs	Grant J & R Pools Pty Ltd	200 Boundary St.,Paddington,NSW	Address	112.9	North-east
1990	Tyres--Retreading, Recapping & Repairing	Maple Leaf Marketing Pty. Ltd.	200 Boundary,Paddington,NSW	Address	112.9	North-east
1940	Cleaners & Dryers	Garvan J D&Son	259 Oxford Street,Darlinghurst,NSW	Address	114.8	North-west
1950	Dry Cleaners and Dyers	Garvan J D & Son	259 Oxford,Darlinghurst,NSW	Address	114.8	North-west
1970	Dry Cleaners and Dyers	Garvan J D & Son	259 Oxford Street,Darlinghurst,NSW	Address	114.8	North-west
1970	DRY CLEANERS, PRESSERS/ DYERS	Garvan, J. D and Son,	259 Oxford St.,Darlinghurst	Address	114.8	North-west
1980	Dry Cleaners & Dyers	Garvan J D & Son	259 Oxford St.,Darlinghurst,NSW	Address	114.8	North-west
2005	Hardware--Retail	Carroll's Hardware, Darlinghurst	255-259 Oxford St,DARLINGHURST,NSW,2010	Address	114.8	North-west

YEA R	Activity	Name	Address	Position al accurac y	Distan ce (m)	Directio n
1970	Manufacturers	P.E.K. Industries Pty Ltd	4 Sims Street,Darlinghurst,NSW	Address	116.6	West
1965	Fishing Nets	Fazio G	186,Boundary,NSW	Address	117.2	North- east
200 5	Electrical Contractors	M D Koch	186 Boundary St,PADDINGTON,NSW,2021	Address	117.2	North- east
200 5	Advertising Agencies	People Energy Advertising Methods Pty Ltd	10/186-188 Boundary St,PADDINGTON,NSW,2021	Address	117.2	North- east
1950	Hardware - Retail	Green E M	257 Oxford Street,Darlinghurst,NSW	Address	117.4	North- west
1940	Produce Merchants - Retail	Maloney M	76 Oxford Street,Paddington,NSW	Address	117.6	East
1950	Produce Merchants - W'sale	Maloney M	76 Oxford Street,Paddington,NSW	Address	117.6	East
200 5	Hotel, Restaurant & Club Supplies; Fruit & Vegetables--W'sale	Evergreens Pty Ltd	76 Oxford St,PADDINGTON,NSW,2021	Address	117.6	East
201 0	Hotel Restaurant & Club Supplies	Evergreens Pty Ltd	76 Oxford St PADDINGTON 2021 NSW	Address	118.6	East
1970	JEWELLERY CASTING SPECIALISTS	Cosmocast Mfg. Pty. Ltd.,	295 Barcom Ave.,Darlinghurst	Address	119.7	North
1940	Engineers - General	Universal Engineering Co	1 Sims Street,Darlinghurst,NSW	Address	119.9	West
1930	Dyers & Cleaners	Crerar James	21 Taylor Street,Darlinghurst,NSW	Address	120.6	West
1970	BOOT & SHOE REPAIRERS	Taubner, Jos.,	377 Dowling St.,Darlinghurst	Address	121.4	South- west
1965	Printers—Continuous Stationery & Equipment	M.&B. Press	13,West,NSW	Address	123.7	North- east
1940	Fruiterers & Greengrocers	Economos	251 Oxford Street,Darlinghurst,NSW	Address	124.0	North- west
201 0	Video & DVD Production & Duplication Service	Dynan Production	19 Taylor St DARLINGHURST 2010 NSW	Address	126.1	West
201 0	Video & DVD Production & Duplication Service	Dynan Production	19 Taylor St DARLINGHURST 1300 NSW	Address	126.1	West
2015	Video & Dvd Production & Duplication Service	Dynan Production	19 Taylor St Darlinghurst NSW 1300	Address	126.3	West
1970	MIXED BUSINESSES	Barrett, W. D.,	14 Hannam St.,Surry Hills	Address	128.4	South- west
1970	MIXED BUSINESSES	Hannam St. Little Shop,	14 Hannam St.,Darlinghurst	Address	128.4	South- west
1965	Radio Repairs & Service	Virginia Radios	249a,Oxford,NSW	Address	129.2	North- west
1970	RADIO &/OR TELEVISION SALES & SERVICEMEN BONDI JUNCTION	Virginia Radio&Appliance Centre,	249A Oxford St.,NSW	Address	129.2	North- west
1940	Confectionery Mfrs	Alexander&Son	82 Oxford Street,Paddington,NSW	Address	131.2	East
1950	Clothing - Mantle Mfrs	Stein & Son	82A Oxford Street,Paddington,NSW	Address	131.2	East
1950	Clothing - Mfrs. &/or W'salers	Stein&Son	82a Oxford Street,Paddington,NSW	Address	131.2	East
1970	Jewellers-Mfrg. &/or W'sale	Walsh A B & Son	82 Oxford Street,Paddington,NSW	Address	131.2	East
1970	Biscuit Mfrs. &/or W'salers	Ideal Wafer Co	Rear 82 Oxford Street,Paddington,NSW	Address	131.2	East
1980	Bicycles & Accessories - Retail & Repairs	Wooly's Wheels	82 Oxford St.,Paddington,NSW	Address	131.2	East

YEA R	Activity	Name	Address	Position al accurac y	Distan ce (m)	Directio n
2005	Painters & Decorators	S.C. Coating Services	15 Taylor St,DARLINGHURST,NSW,2010	Address	131.2	West
2005	Bicycles & Accessories--Retail & Repairs	Woolys Wheels, Paddington	82 Oxford St,PADDINGTON,NSW,2021	Address	131.2	East
2005	Sporting Goods--Retail & Repairs	Woolys Wheels	82 Oxford St,PADDINGTON,NSW,2021	Address	131.2	East
1940	Poultry Supplies	HYLAND DAVID WATKISS PTY LTD	10 Little Comber,Paddington,NSW	Address	132.3	North-east
1940	Poultry Supplies	Watkiss H	10 Little Comber,Paddington,NSW	Address	132.3	North-east
1940	Fish - Wholesale	Hyland David Watkiss Pty Ltd	10 Little Comber,Paddington,NSW	Address	132.3	North-east
1965	Storage—Cold	Oakbank Cold Stores Pty Ltd	10,LittleComber,NSW	Address	132.3	North-east
1970	POTTERY W'SALERS/IMPORT.	Hyland, David Watkiss Pty. Ltd.,	10 Little Comber St.,NSW	Address	132.3	North-east
1970	COLD STORES	Hyland, David Watkiss Pty. Ltd.,	10 Little Comber St.,NSW	Address	132.3	North-east
1970	Storage-Cold	Oakbank Cold Stores Pty Ltd	10 Little Comber Street,Paddington,NSW	Address	132.3	North-east
1970	FOOD EXPORTERS	Hyland, David Watkiss Pty. Ltd.,	10 Little Comber St.,NSW	Address	132.3	North-east
1970	Frozen Foods-Mfrs. &/or W'salers	Watkins H & Co Pty Ltd	10 Little Comber Street,Paddington,NSW	Address	132.3	North-east
1970	SHIPPING PROVIDORES	Hyland, D. Watkiss Pty. Ltd.	10 Little Comber St.,NSW	Address	132.3	North-east
1965	Umbrellas & Walking Sticks —Mfrs. &/or W'salers	Mayer J	247,Oxford,NSW	Address	132.6	North-west
2015	Shoes - Orthopaedic & Custom Made	Marvel Shoe Co	379 South Dowling St Darlinghurst NSW 2010	Address	133.3	South-west
1965	Dental Laboratories	Duncan L J	245,Oxford,NSW	Address	134.2	North-west
1965	Brass Plates	ARCHITECTURAL ENTERPRISES PTY LTD	245,Oxford,NSW	Address	134.2	North-west
1965	Engravers & Die Sinkers	ARCHITECTURAL ENTERPRISES PTY LTD	245,Oxford,NSW	Address	134.2	North-west
1965	Signs—Manufacturers'	ARCHITECTURAL ENTERPRISES PTY LTD	245,OxfordSt,NSW	Address	134.2	North-west
1965	Roofing & Flooring Mfrs	Architectural Enterprises Pty Ltd	245,Oxford,NSW	Address	134.2	North-west
2010	Shoes - Orthopaedic & Custom Made	Marvel Shoe Co	379 South Dowling St DARLINGHURST 2010 NSW	Address	134.7	South-west
2015	Bicycles & Accessories - Retailers & Repairers	Woolys Wheels	82 Oxford St Paddington NSW 2021	Address	134.7	East
1940	Farriers	Coghlan F	22 Dowling Street,Paddington,NSW	Address	135.5	South-west
1940	Lawn Mower Mfrs &/or Wholesalers	Cambridge Lawnmower Co	5 Chisholm Street,Darlinghurst,NSW	Address	135.7	West
1940	Perfumery	Durol Chemical Co	3 Chisholm Street,Darlinghurst,NSW	Address	135.7	West

YEA R	Activity	Name	Address	Position al accurac y	Distan ce (m)	Directio n
1940	Millinery - Wholesale	Blanshard H E	9 Chisholm Street,Darlinghurst,NSW	Address	135.7	West
1950	Metal Spinners	Spunmetal Products Pty Ltd	1-3 Chisholm Street,Darlinghurst,NSW	Address	135.7	West
1950	Kitchen Mfrs.	Spunmetal Products Pty Ltd	1 Chisholm Street,Darlinghurst,NSW	Address	135.7	West
1950	Lawn Mower Mfrs. &/or W'salers	Cambridge Lawnmower Pty Ltd	5 Chisholm Street,Darlinghurst,NSW	Address	135.7	West
1950	Grocers - W'sale	PageP&Co Pty Ltd	9 Chisholm Street,Darlinghurst,NSW	Address	135.7	West
1950	Waste Merchants	Orion Trade Exchange Co	11 Chisholm,Darlinghurst,NSW	Address	135.7	West
1950	Aluminium Ware Mfrs.	Spunmetal Products Pty Ltd	1-3 Chisholm Street,Darlinghurst,NSW	Address	135.7	West
1950	Clothing - Mfrs. &/or W'salers	Jackson Steyne	11 Chisholm Street,Darlinghurst,NSW	Address	135.7	West
1970	Grocers'-Wholesale	Page P & Co Pty Ltd	9 Chisholm Street,Darlinghurst,NSW	Address	135.7	West
1970	MANUFACTURERS' AGENTS	Page, P. & Co. Pty. Ltd.,	9 Chisholm St.,Darlinghurst	Address	135.7	West
1970	TEXTILE WASTE MERCHANTS	Orion Textile Waste Co.,	11 Chisholm St.,Darlinghurst	Address	135.7	West
1980	Laundries	Paddington Wash House	326 South Dowling St.,East Sydney,NSW	Address	135.7	South- west
2015	Cabinetry Makers	Lime Design	2 Taylor St Waterloo NSW 2017	Address	136.1	North- west
1965	Publishers	Findlay Russell J	52,Chisholm,NSW	Address	136.2	South- west
200 5	Building Contractors-- Alterations, Extensions & Renovations	Glenn Davis Building Contractor	29 Sturt St,DARLINGHURST,NSW,2010	Address	136.5	North- west
200 5	Footwear--Orthopaedic or Custom Made	Donna-May Bolinger	379a South Dowling St,DARLINGHURST,NSW,2010	Address	137.4	South- west
200 5	Footwear--Orthopaedic or Custom Made	Marvel Shoe Co	379 South Dowling St,DARLINGHURST,NSW,2010	Address	137.4	South- west
1940	Grocers' Sundries	McCarthy L J	12 Comber Street,Paddington,NSW	Address	138.7	East
1950	Grocers'Sundries	McCarthy L J	12 Comber Street,Paddington,NSW	Address	138.7	East
1950	Stores - General	Ingersole J	84 Oxford Street,Paddington,NSW	Address	141.1	East
1940	Painters Decorators & Glaziers	Phillips N J	108 Dowling Street,Paddington,NSW	Address	141.6	South- west
1940	Cleaners & Dryers	Gillards Laundry	80 Dowling Street,Paddington,NSW	Address	142.5	South- west
1940	Laundries	GILLARDS LAUNDRY	80 Dowling Street,Paddington,NSW	Address	142.5	South- west
1950	Dry Cleaners and Dyers	Ever-Kleen Dry Cleaners	80 Dowling,Paddington,NSW	Address	142.5	South- west
200 5	Plastic & Reconstructive Surgery; Medical Practitioners	Liew Steven Dr, Fracs	St Vincent's Clinic Suite 701, 438 Victoria St,DARLINGHURST,NSW,1300	Address	143.6	North
200 5	Surgery-General; Medical Practitioners	Jensen Michael J	St Vincent's Clinic 438 Victoria St,DARLINGHURST,NSW,2010	Address	143.6	North
200 5	Plastic & Reconstructive Surgery; Medical Practitioners	Caminer David, Darlinghurst	Suite 1, Level 4, St Vincents Medical Centre 376 Victoria St,DARLINGHURST,NSW,2010	Address	143.6	North

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2005	Urology; Medical Practitioners	O'Neill Gordon F A Dr	St Vincents Clinic, Suite 607, 438 Victoria,DARLINGHURST,NSW,2010	Address	143.6	North
2005	Plastic & Reconstructive Surgery; Medical Practitioners	Flood John Dr	Suite 505, St Vincent's Clinic 438 Victoria St,DARLINGHURST,NSW,1300	Address	143.6	North
1965	Hardware—Retail	Port Jackson Hardware Co	243a,Oxford,NSW	Address	144.5	North-west
1970	HARDWARE DEALERS/IRONMONGERS DARLINGHURST	Port Jackson Hardware Co.,	243 Oxford St.,NSW	Address	144.5	North-west
1970	BUILDERS' SUPPLIERS	Port Jackson Hardware Co.,	243 Oxford St.,Darlinghurst	Address	144.5	North-west
1970	FURNITURE—KITCHEN UNITS & CABINETS—MANUFACTURERS &/OR WHOLESALERS	Port Jackson Hardware Co.,	243 Oxford St.,NSW	Address	144.5	North-west
1965	Taxis	Garden P L	23,Sturt,NSW	Address	145.1	North-west
1980	Hospital Equipment &/or Supplies	Curtrax Co	90 Oxford St.,Paddington,NSW	Address	145.2	South-east
1980	curtain fittings & accessories	Curtrax Co	90 Oxford St.,Paddington,NSW	Address	145.2	South-east
1980	Curtains - Mfrs &/or W'salers	Curtrax Co	90 Oxford St.,Paddington,NSW	Address	145.2	South-east
1950	Stores - General	Munton J Mrs	28 West Street,Paddington,NSW	Address	145.3	North-east
1940	Grocers - Retail	Bussell Bros	88 Oxford Street,Sydney,NSW	Address	145.6	South-east
1980	General Stores	Plikladis N D	88 Oxford St.,Paddington,NSW	Address	145.6	South-east
1970	HARDWARE MERCHANTS—WHOLESALE	Port Jackson Hardware Co.,	243 Oxford St.,Darlinghurst	Address	146.2	North-west
1940	Laundries	Ward J	749 Victoria Street,Sydney,NSW	Address	151.8	North
1940	Motor Garages	Ryde Garage&Car Sales	605 Victoria Street,Sydney,NSW	Address	151.8	North
1940	Grocers - Retail	Pike W H	563 Victoria Street,Sydney,NSW	Address	151.8	North
1940	Carriers - Light	Scott D	815 Victoria Street,Sydney,NSW	Address	151.8	North
1950	Motor Radiators	Rasmussen & Sons	1-3 Taylor Street,Darlinghurst,NSW	Address	152.0	West
1940	Grocers - Retail	Tooley W&Co	241 Oxford Street,Darlinghurst,NSW	Address	152.4	North-west
1965	Dry Cleaners & Dyers	L.B. Pressing Service	336,Dowling,NSW	Address	153.1	South-west
1965	Dry Cleaners & Dyers	LAWRENCE DRY CLEANERS PTY LTD	336,Dowling,NSW	Address	153.1	South-west
2005	Furniture--W'salers & Mfrs	Godard Little & Kennedy	336 South Dowling St,PADDINGTON,NSW,2021	Address	153.1	South-west
1940	Motor Radiators	Rasmussen C A	1 Taylor Street,Darlinghurst,NSW	Address	153.6	West
1940	Blacksmiths	Dailey A J	1 Taylor Street,Darlinghurst,NSW	Address	153.6	West

YEA R	Activity	Name	Address	Position al accurac y	Distanc e (m)	Directio n
1950	Motor Panel Beaters	Rasmussen&Sons	1 Taylor Street,Darlinghurst,NSW	Address	153.6	West
1980	Manchester Goods - Mfrs &/or W'salers	Clothing & Softgoods Pty Ltd	1 Taylor St.,Darlinghurst,NSW	Address	153.6	West
1940	Leather Goods - Wholesale	Elite Leather Goods	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1940	Medical Supplies	Manchester United I.O.O.F. (Sydney) District	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1940	Manufacturers	Henderson L	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1940	Photographers - Portrait	Photographic Processes Pty Ltd	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1940	Artificial Flowers	Frankford F B	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1940	Clothing - Aprons & Overalls	Georgina Clothing Co	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1940	Clothing - Frock Mfrs	Doumani E	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1940	Clothing - Mantle Mfrs.	Lavic Mfg Co	94 Oxford Street,City,NSW	Address	154.1	South-east
1940	Clothing-Mfrs. &/or Wholesalers	Kent E S	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1940	Brushes & Brooms	Belt Brush Manufacturing Co	94 Oxford Street,City,NSW	Address	154.1	South-east
1950	Clothing - Underclothing Mfrs.	Bradfield Manufacturing Co	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1950	Gloves - Mfrs &/or Wsalers	Superba Glove Industries Pty Ltd	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1950	Leather Goods - Mfrs &/or wsalers	Falk & Co	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1950	Ladies Handbags - mfrs &/or wsalers	Prestige Handbags Pty Ltd	94 Oxford Street,City,NSW	Address	154.1	South-east
1950	Engravers - Jewellers	Brown B&Wray P	94 Oxford Street,City,NSW	Address	154.1	South-east
1950	Film Producers	Kingcroft Productions	94 Oxfors Street,Sydney,NSW	Address	154.1	South-east
1950	Clothing - Mfrs. &/or W'salers	Kent E S	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1950	Hardware - W'sale	Lennard H P&Co	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1950	Clothing - Blouses	Barnet Joseph Pty Ltd	94 Oxford,Sydney,NSW	Address	154.1	South-east
1950	Brushes & Brooms	Fuller Brush Co	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1950	Clothing - Frocks Mfrs.	Georgina Clothing Co	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1950	Knitting Mills	Classic Mfrg Co Pty Ltd	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1950	Clothing - Mantle Mfrs	Lavic Mfg Co	94 Oxford Street,City,NSW	Address	154.1	South-east
1950	Artificial Flowers	Frankford F B	94 Oxford Street,Sydney,NSW	Address	154.1	South-east

YEA R	Activity	Name	Address	Position al accurac y	Distanc e (m)	Directio n
1950	Manufacturers	Lubo P	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1950	Manufacturers	Henderson I	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1965	Clothing—Raincoats (Fabric &/or Plastic)	Lubo Peter Pty Ltd	94,Oxford,NSW	Address	154.1	South-east
1965	Clothing—Underclothing Mfrs	Raygro Lingerie Pty Ltd	94,Oxford,NSW	Address	154.1	South-east
1965	Clothing—Mfrs. &/or Wsalers	Kent E S	94,Oxford,NSW	Address	154.1	South-east
1965	Clothing—Mfrs. &/or Wsalers	NOBLE FROCKS	94,OxfordSt,NSW	Address	154.1	South-east
1965	Travelling Goods—Mfr &/or W'salers	Falk&Co Pty Ltd	94,Oxford,NSW	Address	154.1	South-east
1965	Brushes & Brooms	Fuller Brush Co	94,Oxford,NSW	Address	154.1	South-east
1965	Clothing—Aprons &/or Overalls	LUBO PETER PTY LTD	94,OxfordSt,NSW	Address	154.1	South-east
1965	Clothing—Blouses	Barret Joseph Pty Ltd	94,Oxford,NSW	Address	154.1	South-east
1965	Clothing—Children's Wear—Mfrs. &/or W'salers	GORTEx MFG PTY LTD	94,Oxford,NSW	Address	154.1	South-east
1965	Clothing—Mfrs. &/or Wsalers	Berger R&M	94,Oxford,NSW	Address	154.1	South-east
1965	Clothing—Mfrs. &/or Wsalers	Jo-Jo	94,Oxford,NSW	Address	154.1	South-east
1965	Clothing—Mfrs. &/or Wsalers	Karlovec A	94,Oxford,NSW	Address	154.1	South-east
1965	Manufacturers	Gortex Mfrg Pty Ltd	94,Oxford,NSW	Address	154.1	South-east
1965	Manufacturers	Henderson I	94,Oxford,NSW	Address	154.1	South-east
1965	Ladies' Handbags—Mfrs &/or W'salers	Prestige Handbags Pty Ltd	94,Oxford,NSW	Address	154.1	South-east
1965	Manufacturers	Alexter Fashions	94,Oxford,NSW	Address	154.1	South-east
1965	Leather Goods—Mfrs. &/or W'salers	FALK & CO PTY LTD	94,Oxford,NSW	Address	154.1	South-east
1970	Travelling Goods-Mfrs. &/or Wholesalers	Falk & Co Pty Ltd	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1970	CLOTHING MFRS. &/OR W'SALERS —KNITTED GOODS	Shaw Trading Co. Pty. Ltd.,	94 Oxford St.,NSW	Address	154.1	South-east
1970	CLOTHING MFRS. &/OR W'SALERS —LADIES' COATS & COSTUMES	Noble Frocks,	94 Oxford St.,NSW	Address	154.1	South-east
1970	Clothing-Men's & Boys' Wear Mfrs. &/or Wholesalers	Kent E S	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1970	CLOTHING MFRS. &/OR W'SALERS —KNITTED GOODS	Classic Mfrg. Co.,	94 Oxford St.,East Sydney	Address	154.1	South-east
1970	CLOTHING MFRS. &/OR W'SALERS — UNDERWEAR	Shaw Trading Co. Pty. Ltd.,	94 Oxford St.,NSW	Address	154.1	South-east

YEA R	Activity	Name	Address	Position al accurac y	Distanc e (m)	Directio n
1970	GLOVE MFRS.—FASHION	Superba Glove Industries Pty. Ltd.,	94 Oxford St.,NSW	Address	154.1	South-east
1970	HANDBAG MANUFACTURERS &/OR WHOLESALERS	Prestige Handbags Pty. Ltd.,	94 Oxford St.,NSW	Address	154.1	South-east
1970	HOTEL/MOTEL EQUIPMENT/SUPPLIES	Latham, H. L.,	94 Oxford St.,NSW	Address	154.1	South-east
1970	HANDBAG/GLOVE SPECIALISTS	Prestige Handbags Pty. Ltd.,	94 Oxford St.,East Sydney	Address	154.1	South-east
1970	Leather Goods-Mfrs. &/or Wholesalers	Falk & Co Pty Ltd	94 Oxford Street,Sydney,NSW	Address	154.1	South-east
1980	Travelling Goods - Mfrs &/or w'salers	Falcon Leathergoods	94 Oxford St.,Sydney,NSW	Address	154.1	South-east
1980	Leather Goods - Mfrs &/or W'salers	Falk & Co Pty Ltd	94 Oxford St.,Sydney,NSW	Address	154.1	South-east
1980	Clothing - Men's & Boys' Wear Mfrs &/or W'salers	Kent E S	94 Oxford St.,Sydney,NSW	Address	154.1	South-east
1970	Film Producers &/or Laboratories	Butterfly Productions	28 Little Comber,Paddington,NSW	Address	154.2	East
1970	Film Producers &/or Laboratories	Quest Films	28 Little Comber Street,Paddington,NSW	Address	154.2	East
1965	Engineers—General	Hardwick&Tatam Pty Ltd	28,Taylor,NSW	Address	156.5	North-west
1965	Machinery—Engineers' Machine Tools	HARDWICK & TATAM PTY LTD	28,Taylor,NSW	Address	156.5	North-west
1965	Toolmakers	DATUM JIG BORING SERVICE	28,Taylor,NSW	Address	156.5	North-west
2015	Photography Processing Services - Domestic	Doublequick Photo	234-239 Oxford St Darlinghurst NSW 2010	Address	156.6	North-west
2015	Textiles - Wholesale	Feber Distribution Pty Ltd	Lvl 1/1 Taylor St Darlinghurst NSW 2010	Address	157.0	West
1980	Cleaning - Home	Gazzard T L	3 Hannam St.,Darlinghurst,NSW	Address	157.5	South-west
1980	Leather Goods - Mfrs &/or W'salers	Falk & Co Pty Ltd	94 Oxford Street,Sydney,NSW	Address	157.9	East
1965	Clothing—Frock Mfrs	Weisz E	239,Oxford,NSW	Address	159.7	North-west
1970	CLOTHING MFRS. &/OR W'SALERS —LADIES' COATS & COSTUMES	Norton Novelties,	239 Oxford St.,Darlinghurst	Address	159.7	North-west
1980	Air Services & Agents	Jetset Tours (Aust) Pty Ltd	1st Floor, Suite 3, 239 Oxford St. (Entrance from Waverley St.),Bondi Junction,NSW	Address	159.7	North-west
2010	Photography Processing Services - Domestic	Double-Quick Photo & Portrait	239 Oxford St DARLINGHURST 2010 NSW	Address	159.7	North-west
1980	Dry Cleaners & Dyers	Boddington J S&Co	237 Oxford St.,Darlinghurst,NSW	Address	160.5	North-west
1970	Artists-Commercial	Perry S E	14 Albion Avenue,Paddington,NSW	Address	162.6	South
1965	Motor Schools	Harris Motor School	62,Flinders,NSW	Address	163.7	West
1970	DRY CLEANERS, PRESSERS/ DYERS	Flinders Dry Cleaning&Laundry,	62 Flinders St.,Darlinghurst	Address	163.7	West
2010	Bakeries	Sweet Art	96 Oxford St PADDINGTON 2021 NSW	Address	163.7	South-east

YEA R	Activity	Name	Address	Position al accurac y	Distanc e (m)	Directio n
1970	ANIMAL & BIRD DEALERS	Paddington Pet Shop,	94a Oxford St,, Paddington,NSW	Address	163.9	South-east
1970	ANIMAL & BIRD FOOD SUPPLIES	Paddington Pet Shop,	94a Oxford St.,NSW	Address	163.9	South-east
2005	Wedding Arrangement Services & Supplies	Sweet Art	96 Oxford St,PADDINGTON,NSW,2021	Address	163.9	South-east
2010	Photography Processing Services - Domestic	Doublequick Photo	234- 239 Oxford St DARLINGHURST 2010 NSW	Address	164.5	North-west
1940	Upholsterers	Barrie Upholstering Co	13 Sturt Street,Darlinghurst,NSW	Address	166.6	North-west
2005	Photographers--General	Bret Danton Photography	13 Sturt St,DARLINGHURST,NSW,2010	Address	166.6	North-west
1965	Photographers—General	Daraktzian A	68,Flinders,NSW	Address	166.8	West
1970	PHOTOGRAPHERS—PORTRAIT	Pekoe Studio,	68 Flinders St.,Darlinghurst	Address	166.8	West
1970	PHOTOGRAPHERS—PORTRAIT	Photo-Record Studio,	68 Flinders St.,Darlinghurst	Address	166.8	West
1965	Builders & Contractors	Mazlin C W	6,Albion,NSW	Address	166.9	South-west
1940	Advertising - General	Swift Advertising	2 Albion Street,Paddington,NSW	Address	169.0	South-west
1940	Knitted Goods	Wilcox A Mrs	58 Flinders Street,Sydney,NSW	Address	169.9	West
1950	Motor Engineers & Repairers	Tahmindjis C	54 Flinders,Darlinghurst,NSW	Address	170.2	West
1970	MOTOR ELECTRICIANS	Chris & Vic Engineering Pty. Ltd.,	54 Flinders St.,Darlinghurst	Address	170.2	West
1970	MOTOR ENGINE RECONDITIONERS	Chris, it Vic. Engineering Pty. Ltd.,	54 Flinders St.,Darlinghurst	Address	170.2	West
1970	MOTOR GARAGES/ENGINEERS DARLINGHURST	Chris k Vic Engineering Pty. Ltd.,	54 Flinders St.,NSW	Address	170.2	West
1940	Fruiterers & Greengrocers	Catrios G	233 Oxford Street,Sydney,NSW	Address	171.0	North-west
1965	Recording Studios	MIKE STUDIOS	233,OxfordSt,NSW	Address	171.0	North-west
1965	Photographers—Portraits	MIKE STUDIOS	233,Oxford,NSW	Address	171.0	North-west
1965	Photographers—General	MIKE STUDIOS	233,OxfordSt,NSW	Address	171.0	North-west
1965	Photographers—Commercial	Mike Studios	233,Oxford,NSW	Address	171.0	North-west
1965	Clothing—Mfrs. &/or Wsalers	Singer J	233,Oxford,NSW	Address	171.0	North-west
1965	Fruiterers & Greengrocers	Castrounis E C	233,Oxford,NSW	Address	171.0	North-west
1940	Millinery - Wholesale	Langley E W	9 Comber Street,Paddington,NSW	Address	172.6	East
1940	Builders & Contractors	Homan C W	9 Comber,Paddington,NSW	Address	172.6	East
1950	Travelling Goods - Mfrs. &/or W'salers	Supreme Leather Goods Manufacturers	9 Comber Street,Paddington,NSW	Address	172.6	East
1950	Leather Goods - Mfrs &/or wsalers	Supreme Leather Goods Manufacturers	9 Comber Street,Paddington,NSW	Address	172.6	East

YEA R	Activity	Name	Address	Position al accurac y	Distanc e (m)	Directio n
1965	Agents—Manufacturers'	KALIN AGENCIES	9,Comber,NSW	Address	172.6	East
1965	Milk Bar Supplies	KOOKABURRA INDUSTRIES PTY LTD	9,ComberSt,NSW	Address	172.6	East
1965	Serviettes & Doyleys— Paper	Kookaburra Industries Pty Ltd	9,Comber,NSW	Address	172.6	East
1970	PAPER CONVERTERS	Kookaburra Industries Pty. Ltd.,	5-9 Comber St.,NSW	Address	172.6	East
1970	HOTEL/MOTEL EQUIPMENT/SUPPLIES	Kookaburra Industries Pty. Ltd.,	5-9 Comber St.,NSW	Address	172.6	East
201 0	Photographer - General	Bret Danton Photography	13 Sturt St DARLINGHURST 2010 NSW	Address	172.7	North- west
1940	Glass Mfrs &/or Merchants	Mair R H	5 Comber Street,Paddington,NSW	Address	172.8	East
1970	PAPER SERVIETTES/TOWELS— MFRS./ DISTRIBUTORS	Kookaburra Industries Pty. Ltd.,	5 Comber St.,NSW	Address	172.8	East
1970	MOTEL EQUIPMENT &/OR SUPPLIES	Kookaburra Industries Pty. Ltd.,	5 Comber St.,NSW	Address	172.8	East
1970	CAFE EQUIPMENT & SUPPLIES	Kookaburra Industries Pty. Ltd.,	5 Comber St.,NSW	Address	172.8	East
1965	Chemists— Pharmaceutical	Finn John E	6,Hopewell,NSW	Address	173.4	East
1950	Builders & Contrators	Beard A	98 Oxford,Paddington,NSW	Address	174.2	South- east
1970	Shop & Office Fitters	Rhodes Co	98 Oxford Street,Paddington,NSW	Address	174.2	South- east
1970	Partitions	Rhodes Co	98 Oxford Street,Paddington,NSW	Address	174.2	South- east
1980	Film Productions &/or Laboratories	Apropos Film Props	98 Oxford St.,Paddington,NSW	Address	174.2	South- east
1980	Film Productions &/or Laboratories	B D R Productions Pty Ltd	98 Oxford St.,Paddington,NSW	Address	174.2	South- east
1980	Film Productions &/or Laboratories	Mise-En-Scene	98 Oxford St.,Paddington,NSW	Address	174.2	South- east
1980	Film Productions &/or Laboratories	Rodanae Holdings Pty Ltd	98 Oxford St.,Paddington,NSW	Address	174.2	South- east
1940	Produce Merchants - Retail	Moss W H&Son	740 Victoria Street,Sydney,NSW	Address	174.4	North
1940	Transport - Animal	Wilkie C J	706 Victoria Street,Sydney,NSW	Address	174.4	North
1940	Motor Garages	Tharratt M	780 Victoria Street,Sydney,NSW	Address	174.4	North
2015	Make-Up Artists Products & Supplies	Picture Perfect Events & Makeup	399 South Dowling St Darlinghurst NSW 2010	Address	174.6	South- west
2015	Make-Up Artists Products & Supplies	Picture Perfect - Makeup by Nicole	399 South Dowling St Darlinghurst NSW 2010	Address	174.6	South- west
2015	Petrol Stations & Garages	Coles Express	47 Flinders St Darlinghurst NSW 2010	Address	176.7	West
1970	Printers - Small Offset	Koala Instant Printing Pty Ltd	42 Flinders Street,Darlinghurst,NSW	Address	176.9	West

YEA R	Activity	Name	Address	Position al accurac y	Distanc e (m)	Directio n
1970	Printers - Letterpress	Koala Instant Printing	42 Flinders Street,Darlinghurst,NSW	Address	176.9	West
1970	BUILDERS' SUPPLIERS	Henderson Traders Pty. Ltd.,	42 Flinders St.,Darlinghurst	Address	176.9	West
1980	Printers - General	Koala Instant Printing	42 Flinders St.,Darlinghurst,NSW	Address	176.9	West
1940	Confectionery Mfrs	Cuddles	231 Oxford Street,City,NSW	Address	177.3	North-west
1950	Waste Merchants	A & S Textile Waste Co	231 Oxford,Darlinghurst,NSW	Address	177.3	North-west
1950	Manufacturers	Abso Trading Co Pty Ltd	231 Oxford Street,Darlinghurst,NSW	Address	177.3	North-west
1965	Office & Business Systems	PRESELECTION EQUIPMENT PTY LTD	231,OxfordSt,NSW	Address	177.3	North-west
1965	Adding & Calculating Machines	PRESELECTION EQUIPMENT (SALES) PTY LTD	231,Oxford,NSW	Address	177.3	North-west
1970	BOOK-KEEPING MACHINE IMPORTERS Or DEALERS	Accounting Machines Pty. Ltd.,	231 Oxford St.	Address	177.3	North-west
1970	ACCOUNTING MACHINE IMP. &/OR DEALERS	Accounting Machines Pty. Ltd.,	231 Oxford St.,NSW	Address	177.3	North-west
1970	ADDING &/OR CALCULATING MACHINE MFRS. &/OR DIST.	Preselection Equipment (Sales) Pty. Ltd.,	231 Oxford St.,NSW	Address	177.3	North-west
1970	ADDING & CALCULATING MACHINES —DEALERS &/OR IMPS	Accounting Machines Pty. Ltd,	231 Oxford St,NSW	Address	177.3	North-west
1970	ADDING & CALCULATING MACHINES —DEALERS &/OR IMPS	Preselection Equipment (Sales) Pty. Ltd,	231 Oxford St	Address	177.3	North-west
1970	TYPEWRITER DEALERS &/OR REPAIRERS	Preselection Equipment (Sales) Pty. Ltd.,	231 Oxford St.	Address	177.3	North-west
1970	OFFICE FILING SYSTEM MFRS. &/OR DISTRIBUTORS	Preselection Equipment (Sales) Pty. Ltd.,	231 Oxford St.	Address	177.3	North-west
1970	OFFICE EQUIPMENT MFRS./ DISTRIBUTORS	Preselection Equipment (Sales) Pty. Ltd.,	231 Oxford St.	Address	177.3	North-west
1970	ACCOUNTING MACHINE IMP. &/OR DEALERS	Preselection Equipment (Sales) Pty. Ltd.,	231 Oxford St.	Address	177.3	North-west
1970	Publishers	Fishing News Pty Ltd	231 Oxford Street,Darlinghurst,NSW	Address	177.3	North-west
1970	PHOTOGRAPHIC EQUIPMENT DEALERS &/OR IMPORTERS	Preselection Equipment (Sales) Pty. Ltd.,	231 Oxford St.	Address	177.3	North-west
1970	Publishers	Kings Cross Whisper Pty Ltd	231 Oxford Street,Darlinghurst,NSW	Address	177.3	North-west
1970	Publishers	Press Holdings Pty Ltd	231 Oxford Street,Darlinghurst,NSW	Address	177.3	North-west
2005	Building Contractors	Bill O'Grady Carpentry & Renovation	348 South Dowling St,PADDINGTON,NSW,2021	Address	177.6	South-west
1950	Clothing - Mfrs. &/or W'salers	Pagro Fashions	43 Flinders Street,Darlinghurst,NSW	Address	184.4	West

YEA R	Activity	Name	Address	Position al accurac y	Distanc e (m)	Directio n
1930	Motor Tyres	Nixon S & Co	41 Flinders Street,Sydney,NSW	Address	186.8	West
1930	Motor Engineers and Repairers	Nixon S & Co	41 Flinders Street,Sydney,NSW	Address	186.8	West
1930	Motor Cars, Lorries & Garages	Flying Motor Service	35 Flinders Street,Sydney,NSW	Address	187.4	West
1950	Motor Engineers & Repairers	Hoinville F D	37 Flinders,Darlinghurst,NSW	Address	187.4	West
1950	Motor Garages	Keene G R	26 Hopewell,Paddington,NSW	Address	188.7	East
1950	Radio Repairs & Service	Oxford Record & Electric Co	223 Oxford Street,Darlinghurst,NSW	Address	189.2	North- west
1965	Clothing—Secondhand	Bloomfield B M	223,Oxford,NSW	Address	189.2	North- west
1965	Clothing—Shirt Collar & Pyjama Mfrs	Ascot Shirt&Pyjamas	223,Oxford,NSW	Address	189.2	North- west
1970	CLOTHING MFRS. &/OR W'SALERS —SHIRT &/OR PYJAMA	Ascot Shirts & Pyjamas,	223 Oxford St.,Darlinghurst	Address	189.2	North- west
201 0	Hospitals - Private	St Vincent's Private Hospital	406 Victoria St DARLINGHURST 2010 NSW	Address	189.9	North
1930	Motor Cars, Lorries & Garages	Conoulty W	36 Flinders Stret,Sydney,NSW	Address	190.9	West
1940	Slot Machines	ACME VENDING CO	38 Flinders Street,Darlinghurst,NSW	Address	190.9	West
1940	Publishers	Racordah Deposit Book The	36 Flinders Street,Darlinghurst,NSW	Address	190.9	West
1950	Instruments	D.J. Taxi-Meter Co	36 Flinders Street,Darlinghurst,NSW	Address	190.9	West
1970	RADIO &/OR TELEVISION SALES & SERVICEMEN DARLINGHURST	Acme Vending Co.,	38 Flinders St.,NSW	Address	190.9	West
1970	HARDWARE DEALERS/IRONMONGERS DARLINGHURST	Edelman, A.,	221 Oxford St.,NSW	Address	191.4	North- west
1970	PAINT, VARNISH, OILS/COLOUR MERCHANTS	Edelman, A.,	221 Oxford St.,Darlinghurst	Address	191.4	North- west
1980	Hardware - Retail	Oxford Street Hardware (Art Supplies)	221 Oxford St.,Darlinghurst,NSW	Address	191.4	North- west
200 5	School Supplies; Drawing & Drafting Equipment & Supplies	Oxford Art Supplies Pty Ltd	221-225 Oxford St,DARLINGHURST,NSW,2010	Address	191.4	North- west
1930	Brassfounders	Dinte JA	233 Barcom Avenue,Sydney,NSW	Address	191.9	North- east
200 5	Hospitals--Private	St Vincent's Private Hospital, Darlinghurst	406 Victoria St,DARLINGHURST,NSW,2010	Address	192.6	North
1965	Instruments	TAXIMETERS N.S.W. PTY LTD	40,FlindersSt,NSW	Address	195.9	West
1970	GEAR CUTTERS/MFRS.	Taximeters (N.S.W.) Pty. Ltd.,	40 Flinders St.,Darlinghurst	Address	195.9	West
1970	INSTRUMENTS— AUTOMOTIVE- SPECIALISTS	Taximeters (N.S.W.) Pty. Ltd.,	40 Flinders St.,Darlinghurst	Address	195.9	West

YEA R	Activity	Name	Address	Position al accurac y	Distanc e (m)	Directio n
1970	TAXI METER SPECIALISTS	Taximeters (N.S.W.) Pty. Ltd.,	40 Flinders St.,Darlinghurst	Address	195.9	West
1970	Meters & Equipment	Taximeters NSW Pty Ltd	40 Flinders Street,Darlinghurst,NSW	Address	195.9	West
1980	Laundries	Flinders Street Laundry	28a Flinders St.,Darlinghurst,NSW	Address	195.9	North-west
1980	Meters & Equipment	Taximeters NSW Pty Ltd	40 Flinders St.,Darlinghurst,NSW	Address	195.9	West
1990	Laundries	Flinders Street Laundry	28a Flinders,Darlinghurst,NSW	Address	195.9	North-west
2005	Laundries	Flinders Street Laundry	28a Flinders St,DARLINGHURST,NSW,2010	Address	195.9	North-west
1930	Motor Engineers and Repairers	York Motor & Engineering Works	438 Victoria Street,Sydney,NSW	Address	196.7	North
1930	Motor Service Stations	Boomerang Service	438 Victoria Street,Sydney,NSW	Address	196.7	North
1940	Chemical Mfrs &/or Druggists - Wholesale	Micro-Chemicals Co	438 Victoria Street,Darlinghurst,NSW	Address	196.7	North
1940	Paper Containers	Paper Containers Ply Ltd	438 Victoria Street,Darlinghurst,NSW	Address	196.7	North
1940	Motor Garages	Watson C W	438 Victoria Street,Darlinghurst,NSW	Address	196.7	North
1940	Motor - Drive Yourself Services	Kennedy's Drive Yourself Service	438 Victoria Street,Darlinghurst,NSW	Address	196.7	North
1950	Motor Steering Specialists	Ebsary V R&Co Pty Ltd	438 Victoria Street,Darlinghurst,NSW	Address	196.7	North
1950	Motor Engineers & Repairers	Ebsary V R & Co Pty Ltd	438 Victoria,Darlinghurst,NSW	Address	196.7	North
1950	Engineers - Manufacturing	Ebsray Pumps Pty Ltd	438 Victoria Street,Darlinghurst,NSW	Address	196.7	North
1950	Boxes & Cases - Cardboard & Cartons	Paper Containers Pty Ltd	438 Victoria Street,Darlinghurst,NSW	Address	196.7	North
1950	Pumps - Mfrs. & Importers	Ebsray Pumps Pty Ltd	438 Victoria Street,Darlinghurst,NSW	Address	196.7	North
1980	Hardware - Retail	Mitre 10 (NSW) Ltd	438 Victoria St.,Darlinghurst,NSW	Address	196.7	North
1980	Hardware - Retail	Penn's Hardware Eastern Suburbs Pty Ltd	438 Victoria St.,Darlinghurst,NSW	Address	196.7	North
2005	Gastroenterology	Diagnostic Endoscopy Centre St Vincent's Clinic	Level 6, Suite 601 438 Victoria St,DARLINGHURST,NSW,2010	Address	196.7	North
2005	Gastroenterology; Medical Practitioners	Edwards Paul D	St Vincents Clinic 438 Victoria St,DARLINGHURST,NSW,2010	Address	196.7	North
2005	Gastroenterology	Byrnes David J, Darlinghurst	438 Victoria St,DARLINGHURST,NSW,2010	Address	196.7	North
2005	Gastroenterology; Medical Practitioners	Wettstein Antony R.	St Vincents Clinic 438 Victoria St,DARLINGHURST,NSW,2010	Address	196.7	North
2005	Gastroenterology; Medical Practitioners	Mistilis Steven P	St Vincents Clinic 438 Victoria St,DARLINGHURST,NSW,2010	Address	196.7	North
2005	Gastroenterology	Vickers Christopher R	St Vincents Clinic 438 Victoria St,DARLINGHURST,NSW,2010	Address	196.7	North
1970	MOTOR BRAKE LINING SUPPLIERS	Central Brake Service,	1-3 Greens Road,NSW	Address	199.3	South-east
1970	MOTOR BRAKE SERVICES	Central Brake Service,	1-3 Greens Road,NSW	Address	199.3	South-east

YEA R	Activity	Name	Address	Position al accurac y	Distan ce (m)	Directio n
1940	Clothing - Shirt, Collar & Pyjama Mfrs.	Nader W	Verona Street,Paddington,NSW	Street		South-east
1940	Undertakers	KINSELA CHARLES PTY LTD	Taylor Square & Oxford Street,Darlinghurst,NSW	Street		North
1940	Boots & Shoes - Mfrs &/or Wholesalers	Bloch J	Oxford Street,Darlinghurst,NSW	Street		North
1940	Motor Mechanics	Clark H H	Short Street,Darlinghurst,NSW	Street		West
1950	Shirt, Collar & Pyjama Mfrs.	Nader W	Verona Street,Paddington,NSW	Street		South-east
1950	Clothing - Shirt, Collar & Pyjama Mfrs.	Nader W	Verona Street,Paddington,NSW	Street		South-east
1970	CLOTHING MFRS. &/OR W'SALERS —SHIRT &/OR PYJAMA	Nader, W. & Co.,	Verona St.,NSW	Street		South-east
1970	ENGINEERS—REPETITION	Deutscher, W. A. Pty. Ltd.,	Flinders St.,Darlinghurst	Street		West
1970	SCREW MFRS. &/OR DIST.	Deutscher, W. A. Pty. Ltd.,	Flinders St.,Darlinghurst	Street		West
1980	Parking Stations	Kings Parking Co (NSW) Pty Ltd	Oxford Square,Darlinghurst,NSW	Street		North
1980	Motor Cars - New	Century Chrysler	Flinders St. (Sales),Darlinghurst,NSW	Street		West
1990	Motor Service Stations & Garages	Esso Service Stations	Cnr Oxford & Napier Streets,Paddington,NSW	Street		South
1990	Motor Service Stations & Garages	Esso Australia Ltd	Cnr Oxford Street & Greens Road,Peddington,NSW	Street		South-east
2005	School Supplies	Campus Art Store	Cnr Greens Rd & Napier St,PADDINGTON,NSW,2021	Street		South-east
2005	Motor Service Stations & Garages	Mobil Oil Australia Pty Ltd, Paddington	Cnr Oxford St & Green Rd,PADDINGTON,NSW,2021	Street		South-east
2005	Smokers Information & Treatment	Bittoun Renee	St Vincents Clinic,DARLINGHURST,NSW,2010	Street		North
2010	Petrol Stations & Garages	Mobil Oil Australia Limited	Cnr Oxford & Napier Sts PADDINGTON 2021 NSW	Street		South-east
2015	Hospitals - Public	Drug & Alcohol Treatment Centre	The Langton Centre Surry Hills NSW 2010	Place		South-west
1970	SHOP/OFFICE FITTERS	O'Malley, L. & Son Pty. Ltd.	Cnr,Paddington	Suburb		South-east

Land Insight uses a number of address geocoding techniques and has characterised them based on completeness (match rates) and positional accuracy. When a historical street address is incomplete or a match is not found, a record identified as being in the surrounding area will be included for reference and the accuracy of the data is approximate only. An explanation of the positional accuracy records is defined in the table below.

Historical data positional accuracy and georeferencing results explanation		
Positional accuracy	Georeferenced	Description
Address	Located to the address level	When street address and names fully match.
Street	Located to the street centroid	When street names match but no exact address was found. Location is approximate.
Place	Located to the structure, building or complex	When building, residential complex or structure name match but no exact address was found. Location is approximate.

Historical data positional accuracy and georeferencing results explanation

Suburb	Located to the suburb area	<i>When suburb name match but no exact address was found. Location is approximate.</i>
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The data used in this section was extracted from range of historical commercial trade directories and business listings. The business addresses were geocoded using historical information and the accuracy of the data may vary due to changes to the physical address at a given locality over time or the quality of the original records. From 2005, the historical business records in this section are considered more accurate as information was extracted from digital directories with geographic coordinate location information available. On this basis, reliance on the historic listing data should be considered when assessing the risk of contamination from an activity at the site. The presence of a business listing does not definitively confirm the actual activity that has occurred at the site. For more information on how these records were geocoded and the methodology used by Land Insight, contact us at info@landinsight.co.

Historical business directory listings have been filtered to match activities and industries identified as PCAs in Section 4.1. Please note that any record not identified within this section (due to error or unforeseen omission) does not necessarily mean that the screened area is not potentially contaminated or free of any risks.



Section 5 Natural Hazards



5.1 Fire Hazard

Map 5.1 (500m Buffer)

Bushfire Prone Areas

Category	Type	Details	Distance (m)	Direction
Not identified	-	-	-	-

Bushfire History

Type	Season	Details	Distance (m)	Direction
Not identified	-	-	-	-

5.2 Flood Hazard

Map 5.2 (500m Buffer)

Flood Planning Area

Type	Name	Details	Distance (m)	Direction
Flood Planning Area	Woollahra Local Environmental Plan 2014	Councils develop Flood Planning Areas (FPAs) as part of Flood Overlay mapping to guide future building and development in flood prone areas. The FPAs are designed to recognise the flood hazard for different flooding types.	99.8	East

Other Flood Studies

Type	Name	Details	Distance (m)	Direction
Probable Maximum Flood (PMF)	Rushcutters Bay Catchment Floodplain Risk Management Study - April 2016	The largest flood that could conceivably be expected to occur at a particular location, usually estimated from probable maximum precipitation. The PMF defines the maximum extent of flood prone land, that is, the floodplain. It is difficult to define a meaningful Annual Exceedance Probability for the PMF, but it is commonly assumed to be of the order of 104 to 107 (once in 10,000 to 10,000,000 years).	44.6	North-west
Probable Maximum Flood (PMF)	Woolloomooloo Flood Study - April 2016	The largest flood that could conceivably be expected to occur at a particular location, usually estimated from probable maximum precipitation. The PMF defines the maximum extent of flood prone land, that is, the floodplain. It is difficult to define a meaningful Annual Exceedance Probability for the PMF, but it is commonly assumed to be of the order of 104 to 107 (once in 10,000 to 10,000,000 years).	192.1	West
Probable Maximum Flood (PMF)	Alexandra Canal Catchment – Flood Study Model Update 2019 Hydrology - September 2020	The largest flood that could conceivably be expected to occur at a particular location, usually estimated from probable maximum precipitation. The PMF defines the maximum extent of flood prone land, that is, the floodplain. It is difficult to define a meaningful Annual Exceedance Probability for the PMF, but it is commonly assumed to be of the order of 104 to 107 (once in 10,000 to 10,000,000 years).	199.2	South
Probable Maximum Flood (PMF)	Darling Harbour Catchment Floodplain Risk Management Plan - September 2016	The largest flood that could conceivably be expected to occur at a particular location, usually estimated from probable maximum precipitation. The PMF defines the maximum extent of flood prone land, that is, the floodplain. It is difficult to define a meaningful Annual Exceedance Probability for the PMF, but it is commonly assumed to be of the order of 104 to 107 (once in 10,000 to 10,000,000 years).	273.8	North-west

Type	Name	Details	Distance (m)	Direction
Probable Maximum Flood (PMF)	Centennial Park Flood Study - April 2016	The largest flood that could conceivably be expected to occur at a particular location, usually estimated from probable maximum precipitation. The PMF defines the maximum extent of flood prone land, that is, the floodplain. It is difficult to define a meaningful Annual Exceedance Probability for the PMF, but it is commonly assumed to be of the order of 104 to 107 (once in 10,000 to 10,000,000 years).	498.3	South-east

Flood History

Type	Season	Details	Distance (m)	Direction
Not identified	-	-	-	-

The list provided is not comprehensive and does not consider all flood history. It only includes the information that is currently available.

5.3 Erosion Hazard

Map 5.3 (500m Buffer)

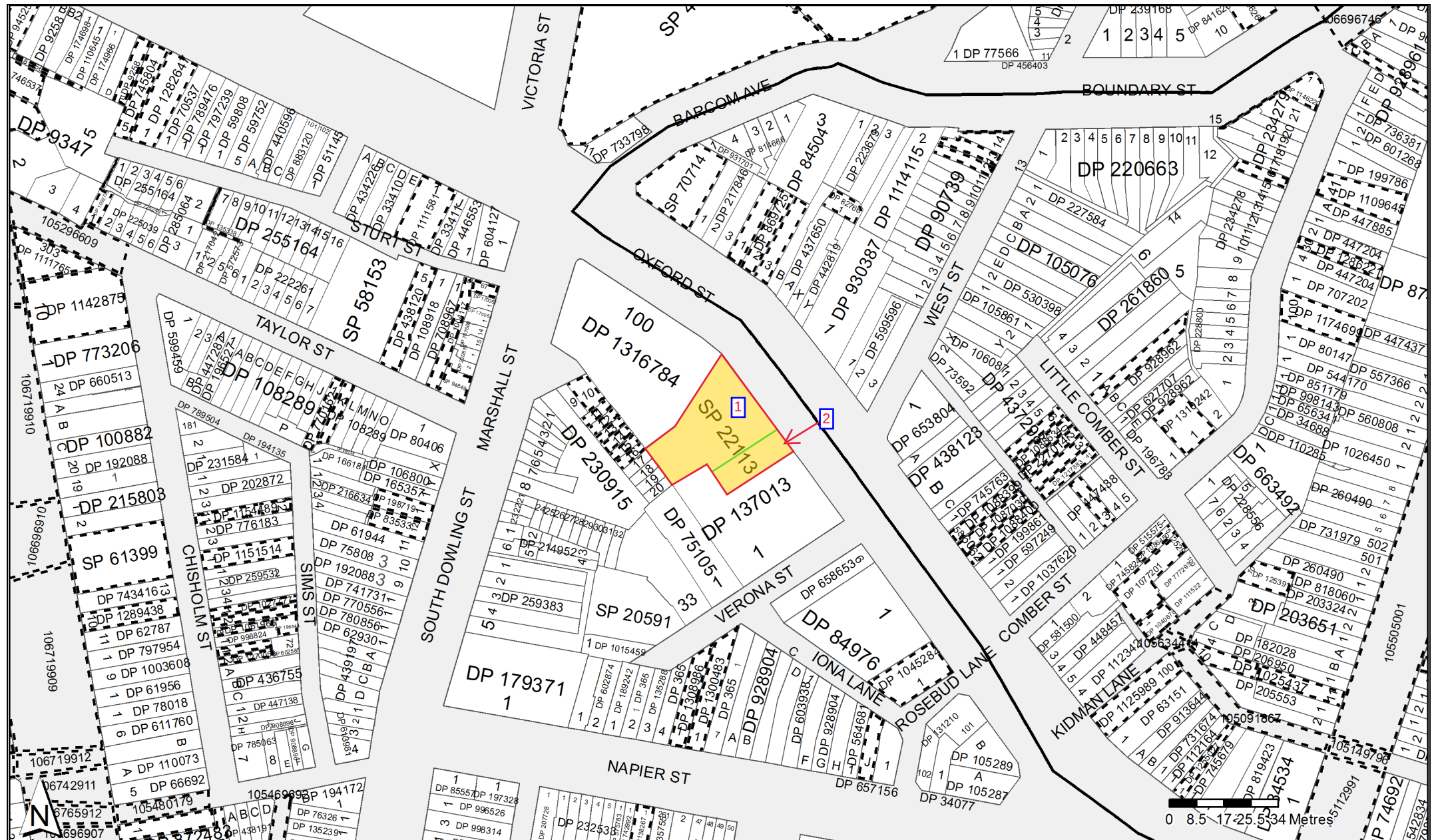
Erosion Hazard

Category	Type	Details	Distance (m)	Direction
Landslip Erosion Risk	Very slight to negligible limitations	Very Low	0.0	Onsite
Water Erosion Risk	Moderate to severe limitations	Moderate	0.0	Onsite
	Very severe limitations	Very High	78.2	East
Wind Erosion Risk	Very slight to negligible limitations	Very Low	0.0	Onsite
	Moderate to severe limitations	Moderate	78.2	East
	Extremely severe limitations	Very High	307.3	South-west



The Commons
388 George Street
Sydney NSW 2000 Australia
info@landinsight.co
www.landinsight.co

Appendix H –Land Title Information



COUNCIL'S CERTIFICATE

The Council of the "City" Municipality of **SYDNEY** having satisfied itself that the requirements of the Strata Titles Act, 1973 (other than the requirements for the registration of plans) have been complied with, approves of the proposed

* strata plan of subdivision

illustrated herein.

*Council does not object to the encroachment of the building beyond the alignment of

*This approval is given on the condition that lot(s)

28 to 54 inclusive is/are subject to the restriction on user referred to in section 39 of the Strata Titles Act, 1973.

Date **23rd October 1984**

Subdivision No. **59/1984**

Deputy Town Council Clerk.

*Complete, or delete if inapplicable.

SURVEYOR'S CERTIFICATE

JOHN WILTON KEOWN

J.W. KEOWN PTY. LTD. 371A PITT ST. SYDNEY
a surveyor registered under the Surveyors Act, 1929, hereby certify that—

(1) any wall, the inner surface or any part of which corresponds substantially with any line shown on the accompanying floor plan as a boundary of a proposed lot, exists;

(2) any floor or ceiling, the upper or under surface or any part of which forms a boundary of a proposed lot, shown in the accompanying floor plan, exists;

(3) any wall, floor, ceiling or structural cubic space, by reference to which any boundary of a proposed lot shown in the accompanying floor plan is defined, exists;

(4) any building containing proposed lots erected on the land shown on the accompanying location plan and each proposed lot shown on the accompanying floor plan are wholly within the perimeter of the parcel * subject to subparagraphs (a) and (b) —

* (a) except to the extent that the building encroaches on a public place;

* (b) eaves and guttering of the building encroach on land other than a public place, in respect of which eaves and guttering an appropriate easement has been created by registered plan.

* (c) the survey information recorded in the accompanying location plan is accurate.

Signature: *[Signature]*

Date: **14TH AUGUST 1984**

* Delete if inapplicable
† State whether dealing or plan, and quote registered number.

This is sheet 1 of my Plan in **5** sheets.

SUBDIVISION OF
PLAN OF LOT 1 IN D.P. 708719

Municipality
City : SYDNEY

Locality : PADDINGTON

Parish : ALEXANDRIA

County : CUMBERLAND

Reduction Ratio 1: 400

Lengths are in metres



STRATA PLAN 22113

Registered **28-11-1984**

C.A. : N°59/1984 of 23-10-1984

Purpose : STRATA PLAN

Ref. Map : SYDNEY sh. 28*

Last Plan : D.P. 708719

Name of, and *address for service of notices on, the body corporate
*Address required on original strata plan only.

THE ~~REGISTERED~~ PROPRIETORS STRATA PLAN No. 22113

Nos. 13-15 OXFORD STREET, PADDINGTON 2021

Signatures, seals and statements of intention to create easements or restrictions as to user.

PURSUANT TO SECTION 7 (3) STRATA TITLES ACT 1973 AND SECTION 88B CONVEYANCING ACT 1919 IT IS INTENDED TO CREATE:

1. RIGHT OF WAY 1.0 WIDE

THE COMMON SEAL OF PADDINGTON MUNICIPALITY WAS HEREINAFFIXED BY ORDER OF THE BOARD OF DIRECTORS AND IN THE PRESENCE OF

[Signature]
W.E. Green
Secretary



[Signature]
D. GREEN
DIRECTOR

Witnessed by DENIS WILLIAM TULLMAN
DAVID ALLAN BROWN
of MORTGAGE WESTMINSTER FINANCE AUSTRALIA LIMITED
who certify that they have no notice of revocation of this
Deed No. **982** Book **3594**
in virtue of which they have just executed this instrument.

Signature of Witness: *[Signature]*
Name of Witness: **NOEL PRUNIKETT**

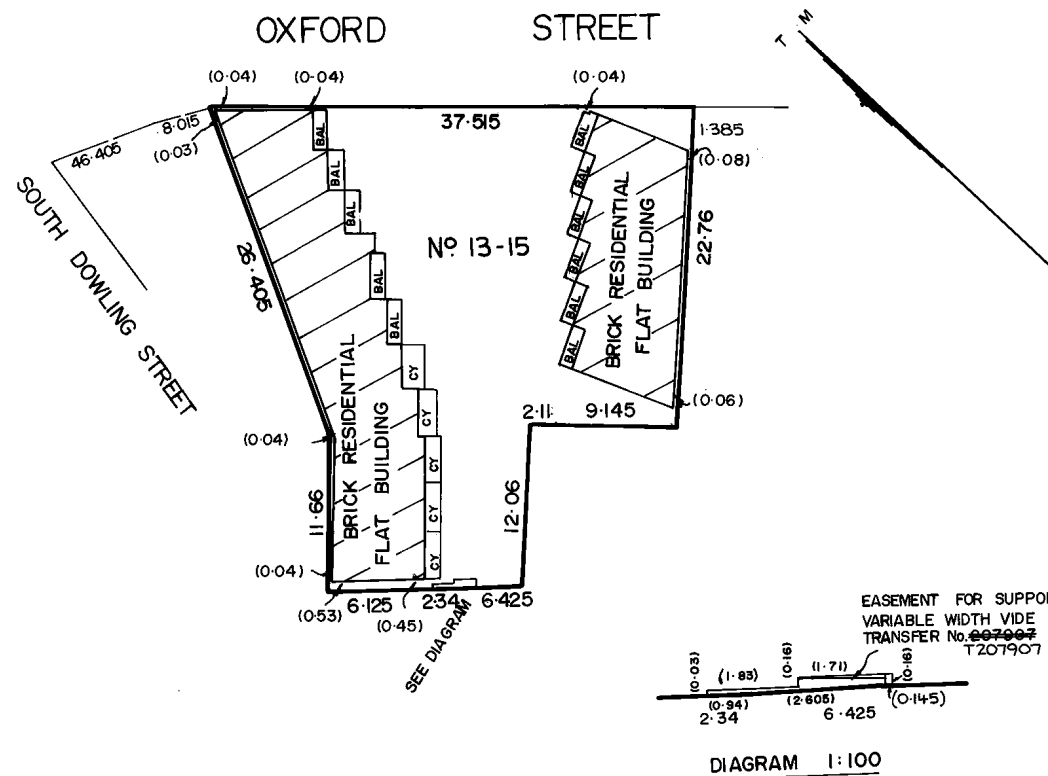
Signature of Justice of the Peace: *[Signature]*
Name of Justice of the Peace: **JUSTICE OF THE PEACE**

PLAN AMENDED IN R.G.O. AT SURVEYOR'S REQUEST.

10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----

SURVEYOR'S REFERENCE: 3603

M.P.D.



Plan Drawing only to appear in this space

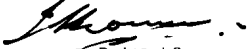
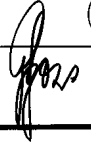
Plan Drawing only to appear in this space

STRATA PLAN 22113

SCHEDULE OF UNIT ENTITLEMENT			
1	10	28	2
2	10	29	2
3	10	30	2
4	10	31	2
5	10	32	2
6	10	33	2
7	10	34	2
8	10	35	2
9	10	36	2
10	10	37	2
11	10	38	2
12	10	39	2
13	10	40	2
14	10	41	2
15	10	42	2
16	10	43	2
17	10	44	2
18	10	45	2
19	10	46	2
20	10	47	2
21	10	48	2
22	10	49	2
23	10	50	2
24	10	51	2
25	10	52	2
26	10	53	2
27	10	54	2
AGGREGATE			324

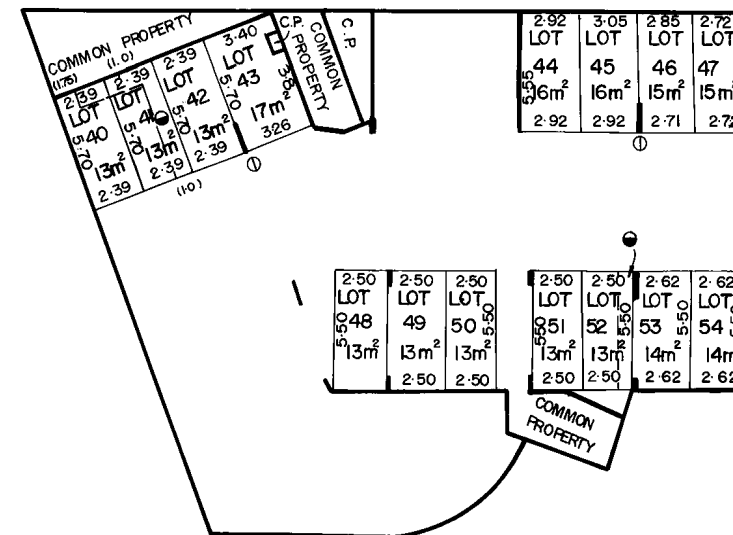
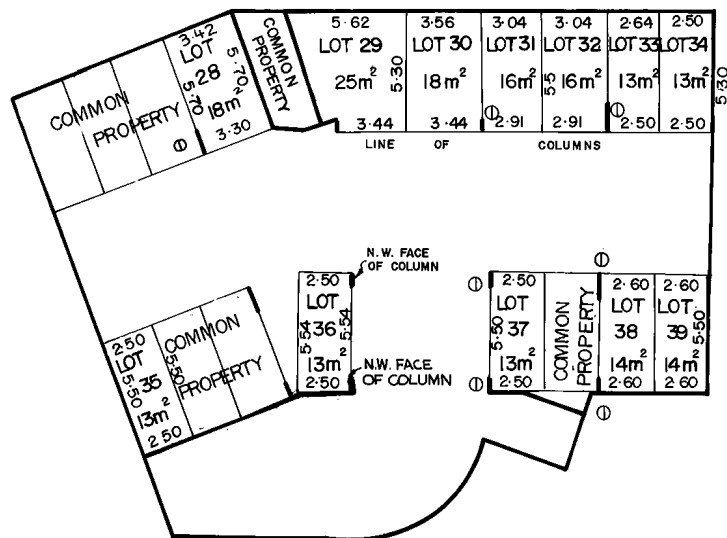
Reduction Ratio 1:

Lengths are in metres


Registered Surveyor
Deputy Town Council Clerk

SURVEYOR'S REFERENCE: 3603

STRATA PLAN 22113



AREAS APPROXIMATE ONLY
CAR PARKING SPACES ARE DEFINED
BY MASONRY WALLS AND DIMENSIONS

● RIGHT OF WAY 1 WIDE

⊙ CENTRE OF COLUMN

C.P. COMMON PROPERTY

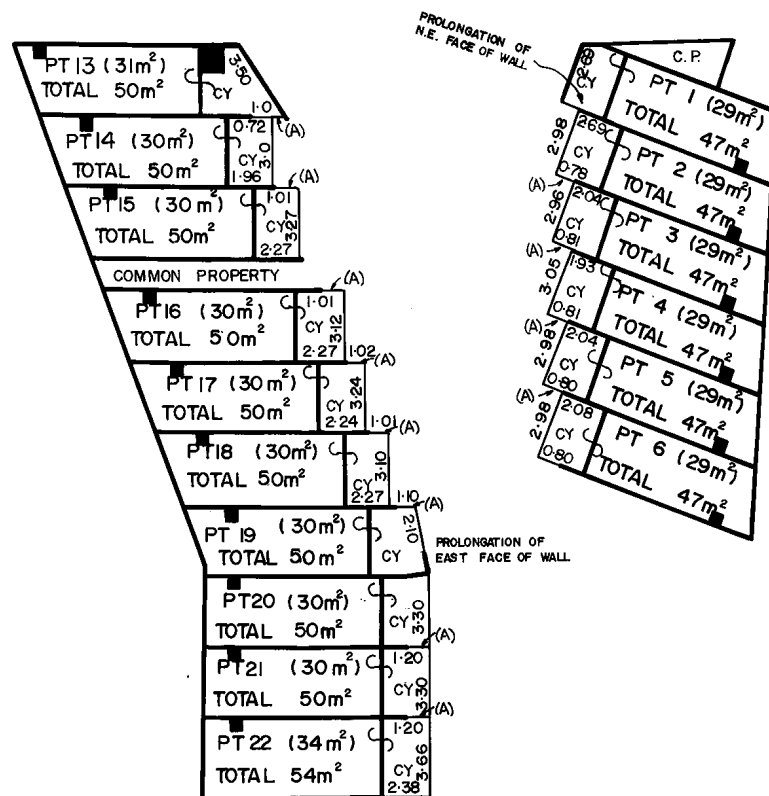
Reduction Ratio 1:250

Lengths are in metres

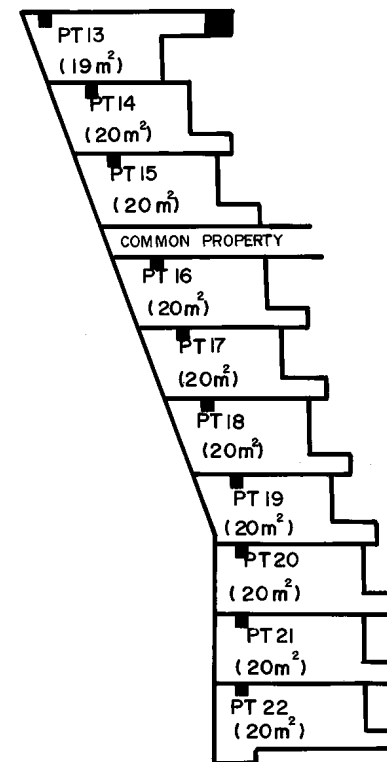
John Jones
Registered Surveyor

John Jones
Deputy Town Council Clerk

STRATA PLAN 22113



LEVEL 3



LEVEL 4

AREAS APPROXIMATE ONLY
 AREAS INCLUDE COURTYARDS
 COURTYARDS ARE PAVED AND ARE
 RESTRICTED IN HEIGHT TO 2.5 ABOVE
 THE UPPER SURFACE OF THEIR RESPECTIVE
 FLOORS EXCEPT WHERE COVERED.
 (A) PROLONGATION OF E OF WALL.

Reduction Ratio 1: 250

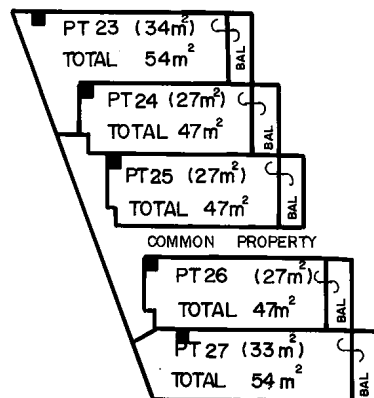
Lengths are in metres

[Signature]
 Registered Surveyor

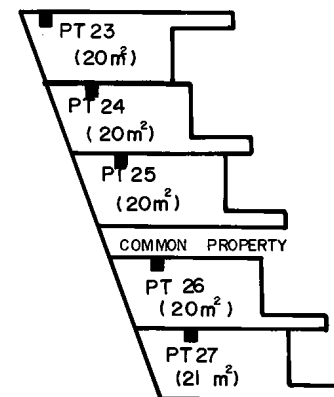
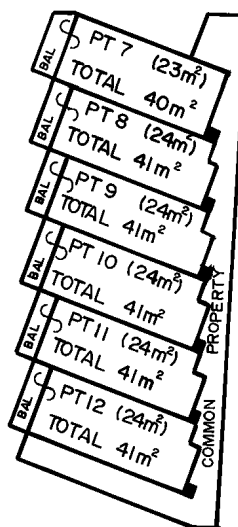
[Signature]
 Deputy Town Council Clerk

SURVEYOR'S REFERENCE: 3603

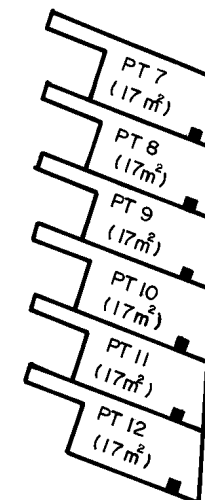
STRATA PLAN 22113



LEVEL 5



LEVEL 6



AREAS ARE APPROXIMATE ONLY

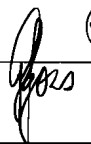
AREAS INCLUDE BALCONIES

BALCONIES ARE RESTRICTED IN
HEIGHT TO 2.5 METRES ABOVE THE UPPER SURFACE
OF THEIR RESPECTIVE FLOORS EXCEPT WHERE
COVERED

Reduction Ratio 1:250

Lengths are in metres


Registered Surveyor


Deputy Town Council Clerk

SURVEYOR'S REFERENCE: 3603

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

15291, Fol. 51
(Page 1) Vol. GRY
EH(SB)

NEW SOUTH WALES

CERTIFICATE OF TITLE
REAL PROPERTY ACT, 1900

TORRENS TITLE
CANCELLED

First Title : Old System OS

Prior Titles: Vol.5812 Fol.60
Vol.6544 Fol.48



Vol. 15291 Fol. 51

SEE AUTO FOLIO

13 12 2014

I certify that The Proprietors - Strata Plan No. 22113 is the registered proprietor of an estate in fee simple (or such other estate or interest as is set out below) in the common property in the strata scheme relating to the Strata Plan so numbered, within the land described, subject to the recordings hereon and to the provisions of the Real Property Act, 1900.

S

[Signature]

Registrar General.



ADDRESS FOR SERVICE OF NOTICES

13-15 OXFORD STREET, PADDINGTON 2021.

LAND REFERRED TO Lot 1 in Deposited Plan 708719 at Paddington in the City of Sydney Parish of Alexandria and County of Cumberland.

RECORDINGS

- 1. Reservations and conditions in the Crown Grant.
- 2. T207907 Easement for support affecting the part of the land above described shown so burdened in Strata Plan 22113.

SCHEDULE OF UNIT ENTITLEMENT

Aggregate unit entitlement: 324

Lot No.	Strata Plan No.	Unit Entitlement	Lot No.	Strata Plan No.	Unit Entitlement
1	22113	10	28	22113	2
2	"	10	29	"	2
3	"	10	30	"	2
4	"	10	31	"	2
5	"	10	32	"	2
6	"	10	33	"	2
7	"	10	34	"	2
8	"	10	35	"	2
9	"	10	36	"	2
10	"	10	37	"	2
11	"	10	38	"	2
12	"	10	39	"	2
13	"	10	40	"	2
14	"	10	41	"	2
15	"	10	42	"	2
16	"	10	43	"	2
17	"	10	44	"	2
18	"	10	45	"	2
19	"	10	46	"	2
20	"	10	47	"	2
21	"	10	48	"	2
22	"	10	49	"	2
23	"	10	50	"	2
24	"	10	51	"	2
25	"	10	52	"	2
26	"	10	53	"	2
27	"	10	54	"	2

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



15291



28492A 10.83

RECORDINGS (continued)

PARTICULARS		Registrar General	CANCELLATION

NOTATIONS AND UNREGISTERED DEALINGS

ALTER RUGH REFR ALL DUGS & PLANE TO STAG			
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NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED



FOLIO: CP/SP22113

SEARCH DATE	TIME	EDITION NO	DATE
24/9/2025	10:38 AM	8	19/7/2019

LAND

THE COMMON PROPERTY IN THE STRATA SCHEME BASED ON STRATA PLAN 22113
WITHIN THE PARCEL SHOWN IN THE TITLE DIAGRAM

AT PADDINGTON
LOCAL GOVERNMENT AREA SYDNEY
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM SHEET 1 SP22113

FIRST SCHEDULE

THE OWNERS - STRATA PLAN NO. 22113

ADDRESS FOR SERVICE OF DOCUMENTS:

NETWORK STRATA SERVICES
PO BOX 265
HURSTVILLE BC NSW 1481

SECOND SCHEDULE (4 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 T207907 EASEMENT FOR SUPPORT AFFECTING THE PART SHOWN SO
BURDENED IN THE TITLE DIAGRAM
- 3 AN783050 INITIAL PERIOD EXPIRED
- 4 AP407264 CONSOLIDATION OF REGISTERED BY-LAWS

SCHEDULE OF UNIT ENTITLEMENT (AGGREGATE: 324)

STRATA PLAN 22113

LOT	ENT	LOT	ENT	LOT	ENT	LOT	ENT
1	- 10	2	- 10	3	- 10	4	- 10
5	- 10	6	- 10	7	- 10	8	- 10
9	- 10	10	- 10	11	- 10	12	- 10
13	- 10	14	- 10	15	- 10	16	- 10
17	- 10	18	- 10	19	- 10	20	- 10
21	- 10	22	- 10	23	- 10	24	- 10
25	- 10	26	- 10	27	- 10	28	- 2
29	- 2	30	- 2	31	- 2	32	- 2
33	- 2	34	- 2	35	- 2	36	- 2
37	- 2	38	- 2	39	- 2	40	- 2
41	- 2	42	- 2	43	- 2	44	- 2
45	- 2	46	- 2	47	- 2	48	- 2
49	- 2	50	- 2	51	- 2	52	- 2

END OF PAGE 1 - CONTINUED OVER

FOLIO: CP/SP22113

PAGE 2

SCHEDULE OF UNIT ENTITLEMENT (AGGREGATE: 324) (CONTINUED)

STRATA PLAN 22113

LOT	ENT	LOT	ENT	LOT	ENT	LOT	ENT
53	- 2	54	- 2				

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

13-15 Oxford Street, Paddington...

PRINTED ON 24/9/2025

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.



ABN: 36 092 724 251

Summary of Owners Report

Address: - 13-15 Oxford Street, Paddington, NSW

Description: - Strata Plan No. 22113

As regards to the part numbered 1 on attached Cadastral Records Enquiry Report: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
04.04.1925 (1925 to 1952)	Olympia Limited Now Olympia Pty. Limited	Volume 3713 Folio 241 Now Volume 4463 Folio 75
04.03.1952 (1952 to 1953)	Francis Ryan Smith (Company Director)	Volume 4463 Folio 75 Now Volume 6544 Folio 48
20.02.1953 (1953 to 1982)	The Shell Company of Australia Limited	Volume 6544 Folio 48
28.04.1982 (1982 to 1984)	Pauillio Pty. Limited	Volume 6544 Folio 48

As regards to the part numbered 2 on attached Cadastral Records Enquiry Report: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
21.10.1921 (1921 to 1937)	Sidney Edwin Jenner (Merchant)	Volume 3240 Folio 237
19.08.1937 (1937 to 1948)	The Commissioner for Main Roads	Volume 3240 Folio 237
20.02.1948 (1948 to 1954)	John O'Halloran (Contractor)	Volume 3240 Folio 237 Now Volume 5812 Folio 66
12.03.1954 (1954 to 1955)	Mary O'Halloran (Spinster) Josephine Vaughan (Married Woman) (Transmission Application not investigated)	Volume 5812 Folio 66
01.02.1955 (1955 to 1957)	John Patrick Dwyer (Demolition Contractor)	Volume 5812 Folio 66
31.10.1957 (1957 to 1957)	John Ekins Wailes (Solicitor)	Volume 5812 Folio 66
06.12.1957 (1957 to 1982)	The Shell Company of Australia Limited	Volume 5812 Folio 66
28.04.1982 (1982 to 1984)	Pauillio Pty. Limited	Volume 5812 Folio 66



ABN: 36 092 724 251

Continued as to the whole of Strata Plan 22113: -

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
28.11.1984	Registration of Strata Plan No. 22113	
	<u>Continued as to the Common Property Only.</u>	
28.11.1984 (1984 to Date)	# The Proprietors – Strata Plan No. 22113 Now # The Owners – Strata Plan No. 22113	Volume 6544 Folio 48 & Volume 5812 Folio 66 Then Volume Now CP/SP22113

Denotes Current Registered Proprietor

Leases: -

Affecting Part 1.

- 13.09.1929 (B842514): Lease to West's Limited of the land within described. Expired by effluxion of time 24.08.1932.
- 03.10.1934 (C278339): Lease to Enoch William Henry Handley (Motor Garage Proprietor) of part of the land. Surrendered 03.09.1937.
- 08.10.1937 (C558929): Lease to Enoch William Henry Handley (Motor Garage Proprietor) of part of the land. Expired by effluxion of time 04.03.1952.

Affecting Part 2.

- 28.07.1922 (A839575): Lease to John Black (Motor Garage Proprietor). Surrendered 01.04.1924.
- 01.04.1924 (B66053): Lease to Frank Edward Pearson (Motor Garage Proprietor). Expired by effluxion of time 07.02.1928.

Easements: -

- 19.10.1982 (T207907): Easement for support affecting the part shown so burdened in the title diagram.

Yours Sincerely
Taylor Wilson
25th September 2025

Appendix I -Chain of Custody Forms and Sample Receipt Advices

Sheet 1 of 2				Sample Matrix		Analysis														Comments												
Site:		Project No:																														
13-15 Oxford Street & 2 Verona Street, Paddington		E25559																														
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		SOIL	WATER	0.45 µm field filtered	OTHER	HM ^A /TRH (including F1, F2, F3, F4)/ BTX/PAHs OCP/OP/PCB/Asbestos	HM ^A /TRH (including F1, F2, F3, F4)/ BTX/PAHs	HM ^A /TRH(including F1, F2, F3, F4)/ BTX	BTX	VOCs	Asbestos	Asbestos Quantification (500mL)	Asbestos 10L field screening	Excavated Natural Material (ENM) Suite	ENM Suite - Stockpile discrete (TRH/BTX/PAHs)	ENM Suite - Stockpile composite (HM ^A / pH / EC / Foreign Materials)	Dewatering Suite	pH / pH peroxide	sPOCAS	Chromium Reducible Sulfur (CrS)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	Lead	TCLP HM ^B / PAH	HM ^B Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc		
BH202_0.2-0.3	1	J/ZLB	8/09/2025	AM	X				X																							
BH202_05-0.6		J/ZLB	8/09/2025	AM	X																											
BH203-0.2-0.3	2	J/ZLB	8/09/2025	AM	X				X																							
BH203-0.3-0.4		J/ZLB	8/09/2025	AM	X																											
BH204-0.15-0.2	3	J/ZLB	8/09/2025	AM	X				X																							
BH204-0.5-0.6	4	J/ZLB	8/09/2025	AM	X					X																						
BH205-0.2-0.3	5	J/ZLB	8/09/2025	AM	X				X																							
BH205-0.4-0.5	6	J/ZLB	8/09/2025	AM	X					X																						
BH206-0.15-0.2	7	J/ZLB	8/09/2025	AM	X				X																							
BH206-0.3-0.4	8	J/ZLB	8/09/2025	AM	X																											
BH207-0.2-0.3	9	J/ZLB	8/09/2025	AM	X					X																						
BH208M-0.7-0.8	9	J/ZLB	8/09/2025	AM	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					Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures. Sampler's Name (EI): <u>Matthew Cheo</u> Received by (SGS): <u>S. Subramaniam</u> Signature: <u>Matthew Cheo</u> Date: <u>9/9/25</u> Signature: <u>S. Subramaniam</u> Date: <u>08/09/25 @ 3.20</u> IMPORTANT: Please e-mail laboratory results to: <u>lab@eiaustralia.com.au</u>																				Report with EI Waste Classification Table ☐		Sampler's Comments:		E-MAILED <u>9/9/25 9:58am</u>			
eiaustralia Suite 6.01, 55 Miller Street, PYRMONT NSW 2009 Ph: 9516 0722 lab@eiaustralia.com.au CCC Ann 2021 F014V5 - SGS					SGS EHS Sydney COC SE289121 																				LABORATORY TURNAROUND ☒ Standard ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ Other		Dewatering Suite pH & EC TDS / TOU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTX PAH Total Phenol					

Sheet 2 of 2						Analysis																	Comments											
Site: 13-15 Oxford Street & 2 Verona Street, Paddington					Project No.: E25559																													
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		SOIL	WATER	0.45 µm field filtered	OTHER	HM ^a /TRH (including F1, F2, F3, F4)/ BTEX/PAHs OCP/OP/PCB/Asbestos	HM ^a /TRH (including F1, F2, F3, F4)/ BTEX/PAHs	HM ^a /TRH(INCLUDING F1, F2, F3, F4)/ BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification (500mL)	Asbestos 10L field screening	Excavated Natural Material (ENM) Suite	ENM Suite - Stockpile discrete (TRH/BTEX/PAHs)	ENM Suite - Stockpile composite (HM ^a / pH / EC / Foreign Materials)	Dewatering Suite	pH / pH peroxide	sPOCAS	Chromium Reducible Sulfur (CrS)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	Lead	TCLP HM ^b / PAH	HM ^a Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM ^b Arsenic Cadmium Chromium Lead Mercury Nickel Zinc				
			Date	Time																														
BH209-0.2-0.3	10	J/ZLB	9/09/2025	AM	X				X																									
BH209-0.8-0.9	11	J/ZLB	9/09/2025	AM	X					X																								
QD-20250908	12	J	9/09/2025	AM	X						X																							
TS	13	VC	9/09/2025	AM	X							X																						
TB	14	VC	9/09/2025	AM	X								X																					
R1	15	VC/P/S	9/09/2025	AM		X					X																							
RBI		VC/P/S	9/09/2025	AM		X																												
Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.																																		
Sampler's Name (EI):					Received by (SGS):																													
Print: Matthew Clee					Print:																													
Signature: [Signature]					Signature:																													
Date: 9/9/25					Date:																													
IMPORTANT:																																		
Please e-mail laboratory results to: lab@eiaustralia.com.au																																		
Report with EI Waste Classification Table																																		
Sampler's Comments:																																		
Please forward QT-20250908 to envirolab CC Andrew Ibrahim, Leo Ho																																		



SAMPLE RECEIPT ADVICE

SE289121

CLIENT DETAILS

Contact Andrew Ibrahim
Client EIAUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email andrew.ibrahim@eiaustralia.com.au

Project **E25559 13-15 Oxford St. & 2 Verona St.**
Order Number **E25559**
Samples 15

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 Mon 8/9/2025
Report Due Tue 16/9/2025
SGS Reference **SE289121**

SUBMISSION DETAILS

This is to confirm that 15 samples were received on Monday 8/9/2025. Results are expected to be ready by COB Tuesday 16/9/2025. Please quote SGS reference SE289121 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	14 Soil, 1 Water	Type of documentation received	COC
Date documentation received	9/9/2025@9:58am	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	20.3°C
Sample container provider	SGS	Turnaround time requested	Standard
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

3 Soil and 1 Water samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.
QT-20250908 Forwarded to Envirolab.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.



SAMPLE RECEIPT ADVICE

SE289121

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25559 13-15 Oxford St. & 2 Verona St.**

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH202_0.2-0.3	27	14	26	9	7	10	11	7
002	BH203-0.2-0.3	27	14	26	9	7	10	11	7
003	BH204-0.15-0.2	27	14	26	9	7	10	11	7
004	BH204-0.5-0.6	-	-	26	-	7	10	11	7
005	BH205-0.2-0.3	27	14	26	9	7	10	11	7
006	BH205-0.4-0.5	-	-	26	-	7	10	11	7
007	BH206-0.15-0.2	27	14	26	9	7	10	11	7
008	BH207-0.2-0.3	27	14	26	9	7	10	11	7
009	BH208M-0.7-0.8	-	-	26	-	7	10	11	7
010	BH209-0.2-0.3	27	14	26	9	7	10	11	7
011	BH209-0.8-0.9	-	-	26	-	7	10	11	7
012	QD-20250908	-	-	-	-	7	10	11	7
013	TS	-	-	-	-	-	-	11	-
014	TB	-	-	-	-	-	-	11	-

CONTINUED OVERLEAF

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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

SE289121

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25559 13-15 Oxford St. & 2 Verona St.**

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content
001	BH202_0.2-0.3	3	1	1
002	BH203-0.2-0.3	3	1	1
003	BH204-0.15-0.2	3	1	1
004	BH204-0.5-0.6	-	1	1
005	BH205-0.2-0.3	3	1	1
006	BH205-0.4-0.5	-	1	1
007	BH206-0.15-0.2	3	1	1
008	BH207-0.2-0.3	3	1	1
009	BH208M-0.7-0.8	-	1	1
010	BH209-0.2-0.3	3	1	1
011	BH209-0.8-0.9	-	1	1
012	QD-20250908	-	1	1
014	TB	-	-	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

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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

SE289121

CLIENT DETAILS

Client EI AUSTRALIA

Project E25559 13-15 Oxford St. & 2 Verona St.

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Trace Metals (Dissolved) in Water by ICPMS	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
015	R1	1	7	9	11	7

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
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Please indicate as soon as possible should your request differ from these details .
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[illegible]



SAMPLE RECEIPT ADVICE

SE289298

CLIENT DETAILS

Contact Matthew Chee
Client EIA AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email matthew.chee@eiaustralia.com.au

Project **E25559 13-15 Oxford St & 2 Verona St**
Order Number **E25559**
Samples 3

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 11/9/2025
Report Due Thu 18/9/2025
SGS Reference **SE289298**

SUBMISSION DETAILS

This is to confirm that 3 samples were received on Thursday 11/9/2025. Results are expected to be ready by COB Thursday 18/9/2025. Please quote SGS reference SE289298 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	3 Soil	Type of documentation received	COC
Date documentation received	11/9/2025	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	8.3°C
Sample container provider	SGS	Turnaround time requested	Standard
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

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SAMPLE RECEIPT ADVICE

SE289298

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25559 13-15 Oxford St & 2 Verona St**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH201M-0.8-1.0	1	26	7	10	11	7
002	TS2	-	-	-	-	11	-
003	TB2	-	-	-	-	11	-

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE289298

CLIENT DETAILS

Client EI AUSTRALIA

Project E25559 13-15 Oxford St & 2 Verona St

SUMMARY OF ANALYSIS

		Moisture Content
No.	Sample ID	
001	BH201M-0.8-1.0	1
003	TB2	1

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Yin, Emily (Alexandria)

From: Matthew Chee - EIAustralia <matthew.chee@eiaustralia.com.au>
Sent: Tuesday, 16 September 2025 2:57 PM
To: Yin, Emily (Alexandria)
Subject: [EXTERNAL] RE: SE289532 - E25559

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

Hi Emily,

Apologies,

Please could you test

TS -BTEX

TB- BTEX

R1- 20250916- HM, TRH, BTEX

QD- 20250916- HM, TRH, BTEX

Thank you,

Matthew Chee
Environmental Engineer

T (02) 9516 0722 M 0404 652 915
E matthew.chee@eiaustralia.com.au

Suite 6.01, 55 Miller Street
Pymont, NSW 2009

www.eiaustralia.com.au



Environmental | Geotechnical | Structural | Civil | Hazardous Materials

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Please consider the environment before printing this email.

From: Yin, Emily (Alexandria) [mailto:Emily.Yin@sgs.com]
Sent: Tuesday, 16 September 2025 2:43 PM
To: Matthew Chee - EIAustralia
Subject: SE289532 - E25559
Importance: High



SAMPLE RECEIPT ADVICE

SE289532

CLIENT DETAILS

Contact **Matthew Chee**
Client **EI AUSTRALIA**
Address **SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009**

Telephone **61 2 95160722**
Facsimile **(Not specified)**
Email **matthew.chee@eiaustralia.com.au**

Project **E25559 13-15 Oxford St 2 Verona St Paddi**
Order Number **E25559**
Samples **6**

LABORATORY DETAILS

Manager **Shane McDermott**
Laboratory **SGS Alexandria Environmental**
Address **Unit 16, 33 Maddox St
Alexandria NSW 2015**

Telephone **+61 2 8594 0400**
Facsimile **+61 2 8594 0499**
Email **au.environmental.sydney@sgs.com**

Samples Received **Tue 16/9/2025**
Report Due **Tue 23/9/2025**
SGS Reference **SE289532**

SUBMISSION DETAILS

This is to confirm that 6 samples were received on Tuesday 16/9/2025. Results are expected to be ready by COB Tuesday 23/9/2025. Please quote SGS reference SE289532 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Type of documentation received	COC	Date documentation received	16/9/2025
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	17.6°C	Sample container provider	SGS
Turnaround time requested	Standard	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

1 sample has been placed on hold as no tests have been assigned for it. This sample will not be processed.
QT20250916 forwarded to Envirolab.

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SAMPLE RECEIPT ADVICE

SE289532

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25559 13-15 Oxford St 2 Verona St Paddi**

SUMMARY OF ANALYSIS

No.	Sample ID	Full 8270 SVOC in Water	OC Pesticides in Water	OP Pesticides in Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	PCBs in Water	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	BH201M	-	-	-	23	-	9	11	7
002	BH208M	167	26	13	22	9	9	84	6
003	QD_20250916	-	-	-	-	-	9	11	7
004	TS	-	-	-	-	-	-	11	-
005	TB	-	-	-	-	-	-	11	-
006	R1-20250916	-	-	-	-	-	9	11	7

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE289532

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25559 13-15 Oxford St 2 Verona St Paddi**

SUMMARY OF ANALYSIS

No.	Sample ID	Alkalinity	Anions by Ion Chromatography in Water	Conductivity and TDS by Calculation - Water	Dissolved Oxygen by Membrane Electrode	Forms of Carbon	pH in water	Total and Volatile Suspended Solids (TSS /	Total Dissolved Solids (TDS) in water	Total Phenolics in Water	Turbidity
001	BH201M	-	-	1	-	-	2	-	1	1	1
002	BH208M	10	5	1	3	1	2	1	1	1	1

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE289532

CLIENT DETAILS

Client EI AUSTRALIA

Project E25559 13-15 Oxford St 2 Verona St Paddi

SUMMARY OF ANALYSIS

No.	Sample ID	Ammonia Nitrogen by Discrete Analyser	Calculation of Anion-Cation Balance	Filterable Reactive Phosphorus (FRP)	Metals in Water (Dissolved) by ICPOES	Nitrite in Water	Redox Potential (Eh) in water	TKN Kjeldahl Digestion by Discrete Analyser	Total Phosphorus by Kjeldahl Digestion DA in	Trace Metals (Dissolved) in Water by ICPMS
001	BH201M	-	-	-	3	-	-	-	-	8
002	BH208M	1	4	1	9	2	2	2	1	21
003	QD_20250916	-	-	-	-	-	-	-	-	7
006	R1-20250916	-	-	-	-	-	-	-	-	7

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE289532

CLIENT DETAILS

Client EI AUSTRALIA

Project E25559 13-15 Oxford St 2 Verona St Paddi

SUMMARY OF ANALYSIS

No.	Sample ID	E. coli and Thermotolerant coliforms in Water (CFU)	Enterococci in Water	Mercury (dissolved) in Water	Per- and Polyfluoroalkyl Substances (PFAS) in	Total Cyanide in water by Discrete Analyser
001	BH201M	-	-	1	-	1
002	BH208M	3	3	1	60	-
003	QD_20250916	-	-	1	-	-
006	R1-20250916	-	-	1	-	-

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SAMPLE RECEIPT ADVICE

SE251689

CLIENT DETAILS

Contact Andrew Ibrahim
Client EIA AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email andrew.ibrahim@eiaustralia.com.au

Project **E25559 17 Oxford Street, Paddington**
Order Number **E25559**
Samples 4

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

Samples Received Wed 2/8/2023
Report Due Mon 7/8/2023
SGS Reference **SE251689**

SUBMISSION DETAILS

This is to confirm that 4 samples were received on Wednesday 2/8/2023. Results are expected to be ready by COB Monday 7/8/2023. Please quote SGS reference SE251689 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	4 Water	Type of documentation received	COC
Date documentation received	2/8/2023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	5.3°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

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SAMPLE RECEIPT ADVICE

SE251689

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25559 17 Oxford Street, Paddington**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	Trace Metals (Dissolved) in Water by ICPMS	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	GWBH101M	1	22	7	9	11	7
002	QD1	1	-	7	9	11	7
003	Trip blank	-	-	-	-	11	-
004	Trip spike	-	-	-	-	11	-

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Appendix J -Laboratory Analytical Reports

CLIENT DETAILS

Contact Andrew Ibrahim
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email andrew.ibrahim@eiaustralia.com.au

Project **E25559 13-15 Oxford St. & 2 Verona St.**
Order Number **E25559**
Samples 15

LABORATORY DETAILS

Manager Shane McDermott
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

SGS Reference **SE289121 R0**
Date Received 8/9/2025
Date Reported 16/9/2025

COMMENTS

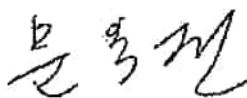
Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all soil samples using trace analysis technique.
Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES



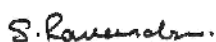
Dong LIANG
Metals/Inorganics Team Leader



Gemma MOON
Organic Chemist



Ly Kim HA
Organic Section Head



Ravee SIVASUBRAMANIAM
Hygiene Team Leader



Shane MCDERMOTT
Laboratory Manager



ANALYTICAL RESULTS

SE289121 R0

VOC's in Soil [AN433] Tested: 10/9/2025

			BH202_0.2-0.3	BH203-0.2-0.3	BH204-0.15-0.2	BH204-0.5-0.6	BH205-0.2-0.3
			SOIL - 8/9/2025	SOIL - 8/9/2025	SOIL - 8/9/2025	SOIL - 8/9/2025	SOIL - 8/9/2025
PARAMETER	UOM	LOR	SE289121.001	SE289121.002	SE289121.003	SE289121.004	SE289121.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

			BH205-0.4-0.5	BH206-0.15-0.2	BH207-0.2-0.3	BH208M-0.7-0.8	BH209-0.2-0.3
			SOIL - 8/9/2025	SOIL - 8/9/2025	SOIL - 8/9/2025	SOIL - 8/9/2025	SOIL - 9/9/2025
PARAMETER	UOM	LOR	SE289121.006	SE289121.007	SE289121.008	SE289121.009	SE289121.010
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

			BH209-0.8-0.9	QD-20250908	TS	TB
			SOIL - 9/9/2025	SOIL - 9/9/2025	SOIL - 9/9/2025	SOIL - 9/9/2025
PARAMETER	UOM	LOR	SE289121.011	SE289121.012	SE289121.013	SE289121.014
Benzene	mg/kg	0.1	<0.1	<0.1	[129%]	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	[126%]	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	[128%]	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	[127%]	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	[128%]	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	-	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	-	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	<0.1

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 10/9/2025

PARAMETER	UOM	LOR	BH202_0.2-0.3	BH203-0.2-0.3	BH204-0.15-0.2	BH204-0.5-0.6	BH205-0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/9/2025 SE289121.001	8/9/2025 SE289121.002	8/9/2025 SE289121.003	8/9/2025 SE289121.004	8/9/2025 SE289121.005
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH205-0.4-0.5	BH206-0.15-0.2	BH207-0.2-0.3	BH208M-0.7-0.8	BH209-0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/9/2025 SE289121.006	8/9/2025 SE289121.007	8/9/2025 SE289121.008	8/9/2025 SE289121.009	9/9/2025 SE289121.010
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH209-0.8-0.9	QD-20250908
			SOIL	SOIL
			-	-
			9/9/2025 SE289121.011	9/9/2025 SE289121.012
TRH C6-C9	mg/kg	20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 10/9/2025

PARAMETER	UOM	LOR	BH202_0.2-0.3	BH203-0.2-0.3	BH204-0.15-0.2	BH204-0.5-0.6	BH205-0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			8/9/2025 SE289121.001	8/9/2025 SE289121.002	8/9/2025 SE289121.003	8/9/2025 SE289121.004	8/9/2025 SE289121.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH205-0.4-0.5	BH206-0.15-0.2	BH207-0.2-0.3	BH208M-0.7-0.8	BH209-0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			8/9/2025 SE289121.006	8/9/2025 SE289121.007	8/9/2025 SE289121.008	8/9/2025 SE289121.009	9/9/2025 SE289121.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH209-0.8-0.9	QD-20250908
			SOIL	SOIL
			9/9/2025 SE289121.011	9/9/2025 SE289121.012
TRH C10-C14	mg/kg	20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 10/9/2025

PARAMETER	UOM	LOR	BH202_0.2-0.3	BH203-0.2-0.3	BH204-0.15-0.2	BH204-0.5-0.6	BH205-0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			8/9/2025 SE289121.001	8/9/2025 SE289121.002	8/9/2025 SE289121.003	8/9/2025 SE289121.004	8/9/2025 SE289121.005
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH205-0.4-0.5	BH206-0.15-0.2	BH207-0.2-0.3	BH208M-0.7-0.8	BH209-0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			8/9/2025 SE289121.006	8/9/2025 SE289121.007	8/9/2025 SE289121.008	8/9/2025 SE289121.009	8/9/2025 SE289121.010
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 10/9/2025 (continued)

			BH209-0.8-0.9
			SOIL
			-
			9/9/2025
PARAMETER	UOM	LOR	SE289121.011
Naphthalene	mg/kg	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1
Fluorene	mg/kg	0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1
Pyrene	mg/kg	0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1
Chrysene	mg/kg	0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8

OC Pesticides in Soil [AN420] Tested: 10/9/2025

PARAMETER	UOM	LOR	BH202_0.2-0.3	BH203-0.2-0.3	BH204-0.15-0.2	BH205-0.2-0.3	BH206-0.15-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			8/9/2025 SE289121.001	8/9/2025 SE289121.002	8/9/2025 SE289121.003	8/9/2025 SE289121.005	8/9/2025 SE289121.007
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 10/9/2025 (continued)

PARAMETER	UOM	LOR	BH207-0.2-0.3	BH209-0.2-0.3
			SOIL - 8/9/2025 SE289121.008	SOIL - 9/9/2025 SE289121.010
Alpha BHC	mg/kg	0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1

OP Pesticides in Soil [AN420] Tested: 10/9/2025

			BH202_0.2-0.3	BH203-0.2-0.3	BH204-0.15-0.2	BH205-0.2-0.3	BH206-0.15-0.2
			SOIL - 8/9/2025 SE289121.001	SOIL - 8/9/2025 SE289121.002	SOIL - 8/9/2025 SE289121.003	SOIL - 8/9/2025 SE289121.005	SOIL - 8/9/2025 SE289121.007
PARAMETER	UOM	LOR					
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

			BH207-0.2-0.3	BH209-0.2-0.3
			SOIL - 8/9/2025 SE289121.008	SOIL - 9/9/2025 SE289121.010
PARAMETER	UOM	LOR		
Dichlorvos	mg/kg	0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7



ANALYTICAL RESULTS

SE289121 R0

PCBs in Soil [AN420] Tested: 10/9/2025

PARAMETER	UOM	LOR	BH202_0.2-0.3	BH203-0.2-0.3	BH204-0.15-0.2	BH205-0.2-0.3	BH206-0.15-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			8/9/2025 SE289121.001	8/9/2025 SE289121.002	8/9/2025 SE289121.003	8/9/2025 SE289121.005	8/9/2025 SE289121.007
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH207-0.2-0.3	BH209-0.2-0.3
			SOIL	SOIL
			8/9/2025 SE289121.008	9/9/2025 SE289121.010
Arochlor 1016	mg/kg	0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 10/9/2025

PARAMETER	UOM	LOR	BH202_0.2-0.3	BH203-0.2-0.3	BH204-0.15-0.2	BH204-0.5-0.6	BH205-0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			8/9/2025 SE289121.001	8/9/2025 SE289121.002	8/9/2025 SE289121.003	8/9/2025 SE289121.004	8/9/2025 SE289121.005
Arsenic, As	mg/kg	1	1	1	1	1	1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	<0.5	4.0	0.8	6.7	1.3
Copper, Cu	mg/kg	0.5	100	3.7	670	1.2	97
Lead, Pb	mg/kg	1	1	18	2	8	1
Nickel, Ni	mg/kg	0.5	3.6	0.6	3.8	<0.5	3.6
Zinc, Zn	mg/kg	2	8.7	9.7	44	6.9	11

PARAMETER	UOM	LOR	BH205-0.4-0.5	BH206-0.15-0.2	BH207-0.2-0.3	BH208M-0.7-0.8	BH209-0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			8/9/2025 SE289121.006	8/9/2025 SE289121.007	8/9/2025 SE289121.008	8/9/2025 SE289121.009	9/9/2025 SE289121.010
Arsenic, As	mg/kg	1	1	1	1	1	1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	7.9	5.3	0.7	15	0.7
Copper, Cu	mg/kg	0.5	0.7	22	180	<0.5	120
Lead, Pb	mg/kg	1	9	6	2	10	4
Nickel, Ni	mg/kg	0.5	<0.5	1.2	3.2	1.0	3.0
Zinc, Zn	mg/kg	2	8.7	7.0	39	6.9	11

PARAMETER	UOM	LOR	BH209-0.8-0.9	QD-20250908
			SOIL	SOIL
			9/9/2025 SE289121.011	9/9/2025 SE289121.012
Arsenic, As	mg/kg	1	<1	<1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	2.4	0.5
Copper, Cu	mg/kg	0.5	0.5	90
Lead, Pb	mg/kg	1	9	1
Nickel, Ni	mg/kg	0.5	<0.5	2.6
Zinc, Zn	mg/kg	2	5.9	7.7

Mercury in Soil [AN312] Tested: 15/9/2025

			BH202_0.2-0.3	BH203-0.2-0.3	BH204-0.15-0.2	BH204-0.5-0.6	BH205-0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/9/2025	8/9/2025	8/9/2025	8/9/2025	8/9/2025
PARAMETER	UOM	LOR	SE289121.001	SE289121.002	SE289121.003	SE289121.004	SE289121.005
Mercury	mg/kg	0.05	<0.05	0.06	<0.05	0.06	<0.05

			BH205-0.4-0.5	BH206-0.15-0.2	BH207-0.2-0.3	BH208M-0.7-0.8	BH209-0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/9/2025	8/9/2025	8/9/2025	8/9/2025	9/9/2025
PARAMETER	UOM	LOR	SE289121.006	SE289121.007	SE289121.008	SE289121.009	SE289121.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

			BH209-0.8-0.9	QD-20250908
			SOIL	SOIL
			-	-
			9/9/2025	9/9/2025
PARAMETER	UOM	LOR	SE289121.011	SE289121.012
Mercury	mg/kg	0.05	0.08	<0.05

Moisture Content [AN002] Tested: 10/9/2025

PARAMETER	UOM	LOR	BH202_0.2-0.3	BH203-0.2-0.3	BH204-0.15-0.2	BH204-0.5-0.6	BH205-0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/9/2025	8/9/2025	8/9/2025	8/9/2025	8/9/2025
			SE289121.001	SE289121.002	SE289121.003	SE289121.004	SE289121.005
% Moisture	%w/w	1	2.2	22.0	2.5	15.3	3.0

PARAMETER	UOM	LOR	BH205-0.4-0.5	BH206-0.15-0.2	BH207-0.2-0.3	BH208M-0.7-0.8	BH209-0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/9/2025	8/9/2025	8/9/2025	8/9/2025	9/9/2025
			SE289121.006	SE289121.007	SE289121.008	SE289121.009	SE289121.010
% Moisture	%w/w	1	8.1	3.5	2.4	16.7	3.1

PARAMETER	UOM	LOR	BH209-0.8-0.9	QD-20250908	TB
			SOIL	SOIL	SOIL
			-	-	-
			9/9/2025	9/9/2025	9/9/2025
			SE289121.011	SE289121.012	SE289121.014
% Moisture	%w/w	1	13.8	3.7	<1.0

Fibre Identification in soil [AS4964/AN602] Tested: 10/9/2025

PARAMETER	UOM	LOR	BH202_0.2-0.3	BH203-0.2-0.3	BH204-0.15-0.2	BH205-0.2-0.3	BH206-0.15-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			8/9/2025 SE289121.001	8/9/2025 SE289121.002	8/9/2025 SE289121.003	8/9/2025 SE289121.005	8/9/2025 SE289121.007
Date Analysed*	No unit	-	15/09/2025 00:00	15/09/2025 00:00	15/09/2025 00:00	15/09/2025 00:00	15/09/2025 00:00
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	BH207-0.2-0.3	BH209-0.2-0.3
			SOIL	SOIL
			8/9/2025 SE289121.008	9/9/2025 SE289121.010
Date Analysed*	No unit	-	15/09/2025 00:00	15/09/2025 00:00
Asbestos Detected	No unit	-	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01



ANALYTICAL RESULTS

SE289121 R0

VOCs in Water [AN433] Tested: 11/9/2025

			R1
			WATER
			-
			9/9/2025
PARAMETER	UOM	LOR	SE289121.015
Benzene	µg/L	0.5	<0.5
Toluene	µg/L	0.5	0.8
Ethylbenzene	µg/L	0.5	<0.5
m/p-xylene	µg/L	1	<1
o-xylene	µg/L	0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5
Total BTEX	µg/L	3	<3
Naphthalene (VOC)*	µg/L	0.5	<0.5



ANALYTICAL RESULTS

SE289121 R0

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 11/9/2025

			R1
			WATER
			-
			9/9/2025
PARAMETER	UOM	LOR	SE289121.015
TRH C6-C9	µg/L	40	<40
Benzene (F0)	µg/L	0.5	<0.5
TRH C6-C10	µg/L	50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50



ANALYTICAL RESULTS

SE289121 R0

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 10/9/2025

			R1
			WATER
			-
			9/9/2025
PARAMETER	UOM	LOR	SE289121.015
TRH C10-C14	µg/L	50	<50
TRH C15-C28	µg/L	200	<200
TRH C29-C36	µg/L	200	<200
TRH C37-C40	µg/L	200	<200
TRH >C10-C16	µg/L	60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60
TRH >C16-C34 (F3)	µg/L	500	<500
TRH >C34-C40 (F4)	µg/L	500	<500
TRH C10-C40	µg/L	320	<320



ANALYTICAL RESULTS

SE289121 R0

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 11/9/2025

			R1
			WATER
			-
			9/9/2025
PARAMETER	UOM	LOR	SE289121.015
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



ANALYTICAL RESULTS

SE289121 R0

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 10/9/2025

			R1
			WATER
			-
			9/9/2025
			SE289121.015
PARAMETER	UOM	LOR	
Mercury, Hg	mg/L	0.0001	<0.0001

METHOD

METHODOLOGY SUMMARY

AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by AAS or ICP as per USEPA Method 200.8.
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.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents .
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting .
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602/AS4964	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602/AS4964	Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602/AS4964	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

AN602/AS4964

The sample can be reported "no asbestos found at the reporting limit (RL) of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-

- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres):
- (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and
- (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
		IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
***	Indicates that both * and ** apply.	LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- a. 1 Bq is equivalent to 27 pCi
- b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <https://www.sgs.com/en-au/industry/environmental-health-and-safety>.

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Project **E25559 13-15 Oxford St. & 2 Verona St.**
 Order Number **E25559**
 Samples **7**

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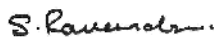
SGS Reference **SE289121 R0**
 Date Received **08 Sep 2025**
 Date Reported **16 Sep 2025**

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.
 Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES



Ravee SIVASUBRAMANIAM
 Hygiene Team Leader

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Date Analysed	Fibre Identification	Est.%w/w*
SE289121.001	BH202_0.2-0.3	Soil	172g Sand, Rocks	08 Sep 2025	15 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE289121.002	BH203-0.2-0.3	Soil	206g Sand, Rocks	08 Sep 2025	15 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE289121.003	BH204-0.15-0.2	Soil	213g Sand, Rocks	08 Sep 2025	15 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE289121.005	BH205-0.2-0.3	Soil	214g Sand, Rocks	08 Sep 2025	15 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE289121.007	BH206-0.15-0.2	Soil	207g Sand, Rocks	08 Sep 2025	15 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE289121.008	BH207-0.2-0.3	Soil	178g Sand, Rocks	08 Sep 2025	15 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE289121.010	BH209-0.2-0.3	Soil	224g Sand, Rocks	09 Sep 2025	15 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01

METHOD

METHODOLOGY SUMMARY

AN602/AS4964	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602/AS4964	Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602/AS4964	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states: "Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602/AS4964	The sample can be reported "no asbestos found at the reporting limit (RL) of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres); (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	NATA accreditation does not cover the performance of this service.
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.
			***	-	Indicates that both * and ** apply.

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.

Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.

Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <https://www.sgs.com/en-au/industry/environmental-health-and-safety>.

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Project **E25559 13-15 Oxford St & 2 Verona St**
 Order Number **E25559**
 Samples **3**

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SGS Reference **SE289298 R0**
 Date Received **11/9/2025**
 Date Reported **18/9/2025**

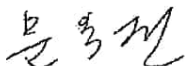
COMMENTS

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

SIGNATORIES



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 Metals/Inorganics Team Leader



Gemma MOON
 Organic Chemist



Ly Kim HA
 Organic Section Head



Shane MCDERMOTT
 Laboratory Manager



ANALYTICAL RESULTS

SE289298 R0

VOC's in Soil [AN433] Tested: 12/9/2025

			BH201M-0.8-1.0	TS2	TB2
			SOIL	SOIL	SOIL
			-	-	-
			9/9/2025	9/9/2025	9/9/2025
			SE289298.001	SE289298.002	SE289298.003
PARAMETER	UOM	LOR			
Benzene	mg/kg	0.1	<0.1	[103%]	<0.1
Toluene	mg/kg	0.1	<0.1	[103%]	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	[103%]	<0.1
m/p-xylene	mg/kg	0.2	<0.2	[105%]	<0.2
o-xylene	mg/kg	0.1	<0.1	[104%]	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	-	<0.3
Total BTEX*	mg/kg	0.6	<0.6	-	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	-	<0.1



ANALYTICAL RESULTS

SE289298 R0

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 12/9/2025

			BH201M-0.8-1.0
			SOIL
			-
			9/9/2025
PARAMETER	UOM	LOR	SE289298.001
TRH C6-C9	mg/kg	20	<20
Benzene (F0)	mg/kg	0.1	<0.1
TRH C6-C10	mg/kg	25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25



ANALYTICAL RESULTS

SE289298 R0

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 12/9/2025

			BH201M-0.8-1.0
			SOIL
			-
			9/9/2025
PARAMETER	UOM	LOR	SE289298.001
TRH C10-C14	mg/kg	20	<20
TRH C15-C28	mg/kg	45	<45
TRH C29-C36	mg/kg	45	<45
TRH C37-C40	mg/kg	100	<100
TRH >C10-C16	mg/kg	25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120
TRH C10-C36 Total	mg/kg	110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 12/9/2025

			BH201M-0.8-1.0
			SOIL
			-
			9/9/2025
PARAMETER	UOM	LOR	SE289298.001
Naphthalene	mg/kg	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1
Fluorene	mg/kg	0.1	<0.1
Phenanthrene	mg/kg	0.1	0.3
Anthracene	mg/kg	0.1	<0.1
Fluoranthene	mg/kg	0.1	0.6
Pyrene	mg/kg	0.1	0.6
Benzo(a)anthracene	mg/kg	0.1	0.3
Chrysene	mg/kg	0.1	0.3
Benzo(b&j)fluoranthene	mg/kg	0.1	0.3
Benzo(k)fluoranthene	mg/kg	0.1	0.1
Benzo(a)pyrene	mg/kg	0.1	0.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.2
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	0.2
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	0.4
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	0.5
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	0.5
Total PAH (18)	mg/kg	0.8	3.3
Total PAH (NEPM/WHO 16)	mg/kg	0.8	3.3



ANALYTICAL RESULTS

SE289298 R0

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 12/9/2025

			BH201M-0.8-1.0
			SOIL
			-
			9/9/2025
PARAMETER	UOM	LOR	SE289298.001
Arsenic, As	mg/kg	1	<1
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.5	1.2
Copper, Cu	mg/kg	0.5	1.9
Lead, Pb	mg/kg	1	10
Nickel, Ni	mg/kg	0.5	0.6
Zinc, Zn	mg/kg	2	15



ANALYTICAL RESULTS

SE289298 R0

Mercury in Soil [AN312] Tested: 12/9/2025

			BH201M-0.8-1.0
			SOIL
			-
			9/9/2025
			SE289298.001
PARAMETER	UOM	LOR	
Mercury	mg/kg	0.05	0.08



ANALYTICAL RESULTS

SE289298 R0

Moisture Content [AN002] Tested: 12/9/2025

			BH201M-0.8-1.0	TB2
			SOIL	SOIL
			-	-
			9/9/2025	9/9/2025
			SE289298.001	SE289298.003
PARAMETER	UOM	LOR		
% Moisture	%w/w	1	1.5	<1.0

METHOD

METHODOLOGY SUMMARY

AN002

The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.

AN040/AN320

A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.

AN040

A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by AAS or ICP as per USEPA Method 200.8.

AN312

Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500

AN403

Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.

AN403

Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.

AN403

The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.

AN420

(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

Total PAH calculated from individual analyte detections at or above the limit of reporting.

AN420

Carcinogenic PAHs may be expressed as Benzo(a)pyrene equivalents by applying the BaP toxicity equivalence factor (NEPM 1999, June 2013, B7). These can be reported as the individual PAHs and as a sum of carcinogenic PAHs. The sum is reported three ways, the first assuming all <LOR results are zero, the second assuming all <LOR results are half the LOR and the third assuming all <LOR results are the LOR.

AN433

VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	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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CERTIFICATE OF ANALYSIS 390515

Client Details

Client	El Australia
Attention	Matthew Chee
Address	Suite 6.01, 55 Miller Street, Pyrmont, NSW, 2009

Sample Details

Your Reference	<u>E25559, 13-15 Oxford St & 2 Verona St, Paddington</u>
Number of Samples	1 Soil
Date samples received	10/09/2025
Date completed instructions received	10/09/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client unless as indicated below in the method summaries. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	17/09/2025
Date of Issue	12/09/2025
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Dragana Tomas, Senior Chemist
 Loren Bardwell, Development Chemist
 Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		390515-1
Your Reference	UNITS	QT - 20250908
Date Sampled		08/09/2025
Type of sample		Soil
Date extracted	-	11/09/2025
Date analysed	-	12/09/2025
TRH C ₆ - C ₉	mg/kg	<25
TRH C ₆ - C ₁₀	mg/kg	<25
vTRH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	87

svTRH (C10-C40) in Soil		
Our Reference		390515-1
Your Reference	UNITS	QT - 20250908
Date Sampled		08/09/2025
Type of sample		Soil
Date extracted	-	11/09/2025
Date analysed	-	11/09/2025
TRH C ₁₀ - C ₁₄	mg/kg	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	mg/kg	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	81

Acid Extractable metals in soil		
Our Reference		390515-1
Your Reference	UNITS	QT - 20250908
Date Sampled		08/09/2025
Type of sample		Soil
Date prepared	-	11/09/2025
Date analysed	-	11/09/2025
Arsenic	mg/kg	<4
Cadmium	mg/kg	2
Chromium	mg/kg	1
Copper	mg/kg	57
Lead	mg/kg	250
Mercury	mg/kg	1.5
Nickel	mg/kg	3
Zinc	mg/kg	600

Moisture		
Our Reference	UNITS	390515-1
Your Reference		QT - 20250908
Date Sampled		08/09/2025
Type of sample		Soil
Date prepared	-	11/09/2025
Date analysed	-	12/09/2025
Moisture	%	1.8

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals/elements by ICP-AES. Total Phosphate determined stoichiometrically from Phosphorus (assumed to be present as Phosphate). Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation. Submission of low masses of sample e.g. for dust samples, may result in raised PQLs. Where molecular anion forms are calculated from an element (e.g. SO₄ from S or PO₄ from P stoichiometrically), the assumption is that the element is only present in that molecular anion form.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			11/09/2025	[NT]	[NT]	[NT]	[NT]	11/09/2025	[NT]
Date analysed	-			12/09/2025	[NT]	[NT]	[NT]	[NT]	12/09/2025	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	98	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	98	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	102	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	97	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	98	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	85	[NT]	[NT]	[NT]	[NT]	88	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			11/09/2025	[NT]	[NT]	[NT]	[NT]	11/09/2025	[NT]
Date analysed	-			11/09/2025	[NT]	[NT]	[NT]	[NT]	11/09/2025	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	83	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	71	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	83	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	71	[NT]
Surrogate o-Terphenyl	%		Org-020	70	[NT]	[NT]	[NT]	[NT]	74	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			11/09/2025	[NT]	[NT]	[NT]	[NT]	11/09/2025	[NT]
Date analysed	-			11/09/2025	[NT]	[NT]	[NT]	[NT]	11/09/2025	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	105	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	106	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

CLIENT DETAILS

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 55 MILLER STREET
 PYRMONT NSW 2009**

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Project **E25559 13-15 Oxford St 2 Verona St Paddi**
 Order Number **E25559**
 Samples **6**

LABORATORY DETAILS

Manager **Shane McDermott**
 Laboratory **SGS Alexandria Environmental**
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SGS Reference **SE289532 R0**
 Date Received **16/9/2025**
 Date Reported **23/9/2025**

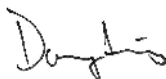
COMMENTS

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

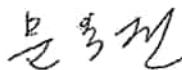
SIGNATORIES



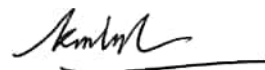
Akheeqar BENIAMREEN
 Chemist



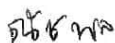
Dong LIANG
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 Microbiologist



Ying Ying ZHANG
 Laboratory Technician

VOCs in Water [AN433] Tested: 17/9/2025

PARAMETER	UOM	LOR	BH201M	BH208M	QD_20250916	TS	TB
			WATER - 16/9/2025 SE289532.001	WATER - 16/9/2025 SE289532.002	WATER - 16/9/2025 SE289532.003	WATER - 16/9/2025 SE289532.004	WATER - 16/9/2025 SE289532.005
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	[102%]	<0.5
Toluene	µg/L	0.5	2.5	86	3.0	[101%]	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	[101%]	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	[101%]	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	[101%]	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	-	<1.5
Total BTEX	µg/L	3	<3	86	<3	-	<3
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	[96%]	<0.5
Dichlorodifluoromethane (CFC-12)	µg/L	5	-	<5	-	-	-
Chloromethane	µg/L	5	-	<5	-	-	-
Vinyl chloride (Chloroethene)	µg/L	0.3	-	<0.3	-	-	-
Bromomethane	µg/L	10	-	<10	-	-	-
Chloroethane	µg/L	5	-	<5	-	-	-
Trichlorofluoromethane	µg/L	1	-	<1	-	-	-
Acetone (2-propanone)	µg/L	10	-	<10	-	-	-
Iodomethane	µg/L	5	-	<5	-	-	-
1,1-dichloroethene	µg/L	0.5	-	<0.5	-	-	-
Acrylonitrile	µg/L	0.5	-	<0.5	-	-	-
Dichloromethane (Methylene chloride)	µg/L	5	-	<5	-	-	-
Allyl chloride	µg/L	2	-	<2.0	-	-	-
Carbon disulfide	µg/L	2	-	<2.0	-	-	-
trans-1,2-dichloroethene	µg/L	0.5	-	<0.5	-	-	-
MIBE (Methyl-tert-butyl ether)	µg/L	0.5	-	<0.5	-	-	-
1,1-dichloroethane	µg/L	0.5	-	<0.5	-	-	-
Vinyl acetate*	µg/L	10	-	<10	-	-	-
MEK (2-butanone)	µg/L	10	-	<10	-	-	-
cis-1,2-dichloroethene	µg/L	0.5	-	<0.5	-	-	-
Bromochloromethane	µg/L	0.5	-	<0.5	-	-	-
Chloroform (THM)	µg/L	0.5	-	<0.5	-	-	-
2,2-dichloropropane	µg/L	0.5	-	<0.5	-	-	-
1,2-dichloroethane	µg/L	0.5	-	<0.5	-	-	-
1,1,1-trichloroethane	µg/L	0.5	-	<0.5	-	-	-
1,1-dichloropropene	µg/L	0.5	-	<0.5	-	-	-
Carbon tetrachloride	µg/L	0.5	-	<0.5	-	-	-
Dibromomethane	µg/L	0.5	-	<0.5	-	-	-
1,2-dichloropropane	µg/L	0.5	-	<0.5	-	-	-
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	-	<0.5	-	-	-
2-nitropropane	µg/L	100	-	<100	-	-	-
Bromodichloromethane (THM)	µg/L	0.5	-	<0.5	-	-	-
MIBK (4-methyl-2-pentanone)	µg/L	5	-	<5	-	-	-
cis-1,3-dichloropropene	µg/L	0.5	-	<0.5	-	-	-
trans-1,3-dichloropropene	µg/L	0.5	-	<0.5	-	-	-
1,1,2-trichloroethane	µg/L	0.5	-	<0.5	-	-	-
1,3-dichloropropane	µg/L	0.5	-	<0.5	-	-	-
Dibromochloromethane (THM)	µg/L	0.5	-	<0.5	-	-	-
2-hexanone (MBK)	µg/L	5	-	<5	-	-	-
1,2-dibromoethane (EDB)	µg/L	0.5	-	<0.5	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	-	<0.5	-	-	-
1,1,1,2-tetrachloroethane	µg/L	0.5	-	<0.5	-	-	-
Chlorobenzene	µg/L	0.5	-	<0.5	-	-	-
Bromoform (THM)	µg/L	0.5	-	<0.5	-	-	-
Styrene (Vinyl benzene)	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	-	-	-
Isopropylbenzene (Cumene)	µg/L	0.5	-	<0.5	-	-	-

VOCs in Water [AN433] Tested: 17/9/2025 (continued)

PARAMETER	UOM	LOR	BH201M	BH208M	QD_20250916	TS	TB
			WATER	WATER	WATER	WATER	WATER
			- 16/9/2025 SE289532.001	- 16/9/2025 SE289532.002	- 16/9/2025 SE289532.003	- 16/9/2025 SE289532.004	- 16/9/2025 SE289532.005
Bromobenzene	µg/L	0.5	-	<0.5	-	-	-
n-propylbenzene	µg/L	0.5	-	<0.5	-	-	-
2-chlorotoluene	µg/L	0.5	-	<0.5	-	-	-
4-chlorotoluene	µg/L	0.5	-	<0.5	-	-	-
1,3,5-trimethylbenzene	µg/L	0.5	-	<0.5	-	-	-
tert-butylbenzene	µg/L	0.5	-	<0.5	-	-	-
1,2,4-trimethylbenzene	µg/L	0.5	-	<0.5	-	-	-
sec-butylbenzene	µg/L	0.5	-	<0.5	-	-	-
1,3-dichlorobenzene	µg/L	0.5	-	<0.5	-	-	-
1,4-dichlorobenzene	µg/L	0.3	-	<0.3	-	-	-
p-isopropyltoluene	µg/L	0.5	-	<0.5	-	-	-
1,2-dichlorobenzene	µg/L	0.5	-	<0.5	-	-	-
n-butylbenzene	µg/L	0.5	-	<0.5	-	-	-
1,2-dibromo-3-chloropropane	µg/L	0.5	-	<0.5	-	-	-
1,2,4-trichlorobenzene	µg/L	0.5	-	<0.5	-	-	-
Hexachlorobutadiene	µg/L	0.5	-	<0.5	-	-	-
1,2,3-trichlorobenzene	µg/L	0.5	-	<0.5	-	-	-
Total VOC	µg/L	10	-	86	-	-	-
Total Halogenated Hydrocarbons	µg/L	10	-	<10	-	-	-
Total Chlorinated Hydrocarbons VIC EPA	µg/L	0.5	-	<0.5	-	-	-
Total MAH	µg/L	0.5	-	86	-	-	-
Total Chlorinated Hydrocarbons	µg/L	10	-	<10	-	-	-
Total Other Chlorinated Hydrocarbons VIC EPA	µg/L	0.5	-	<0.5	-	-	-
Total THM	µg/L	2	-	<2	-	-	-
Total MAH VIC EPA (BTEX+Styrene)	µg/L	0.5	-	86	-	-	-

VOCs in Water [AN433] Tested: 17/9/2025 (continued)

			R1-20250916
			WATER
			-
			16/9/2025
			SE289532.006
PARAMETER	UOM	LOR	
Benzene	µg/L	0.5	<0.5
Toluene	µg/L	0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5
m/p-xylene	µg/L	1	<1
o-xylene	µg/L	0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5
Total BTEX	µg/L	3	<3
Naphthalene (VOC)*	µg/L	0.5	<0.5
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	-
MtBE (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: 17/9/2025 (continued)

			R1-20250916
			WATER
			-
			16/9/2025
PARAMETER	UOM	LOR	SE289532.006
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: 17/9/2025

PARAMETER	UOM	LOR	BH201M	BH208M	QD_20250916	R1-20250916
			WATER	WATER	WATER	WATER
			- 16/9/2025 SE289532.001	- 16/9/2025 SE289532.002	- 16/9/2025 SE289532.003	- 16/9/2025 SE289532.006
TRH C6-C10	µg/L	50	<50	220	<50	<50
TRH C6-C9	µg/L	40	<40	210	<40	<40
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	130	<50	<50
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 17/9/2025

PARAMETER	UOM	LOR	BH201M	BH208M	QD_20250916	R1-20250916
			WATER	WATER	WATER	WATER
			- 16/9/2025 SE289532.001	- 16/9/2025 SE289532.002	- 16/9/2025 SE289532.003	- 16/9/2025 SE289532.006
TRH C10-C14	µg/L	50	64	<50	60	<50
TRH C15-C28	µg/L	200	<200	360	200	<200
TRH C29-C36	µg/L	200	<200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200
TRH >C10-C16	µg/L	60	83	68	88	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	83	68	88	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500
TRH C10-C40	µg/L	320	<320	490	330	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 17/9/2025

PARAMETER	UOM	LOR	BH201M	BH208M
			WATER - 16/9/2025 SE289532.001	WATER - 16/9/2025 SE289532.002
Naphthalene	µg/L	0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1
Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	-

OC Pesticides in Water [AN420] Tested: 17/9/2025

			BH208M
			WATER
			-
			16/9/2025
PARAMETER	UOM	LOR	SE289532.002
Alpha BHC	µg/L	0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
Beta BHC	µg/L	0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1
Delta BHC	µg/L	0.1	<0.1
Heptachlor	µg/L	0.1	<0.1
Aldrin	µg/L	0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1
Dieldrin	µg/L	0.1	<0.1
Endrin	µg/L	0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1
Mirex	µg/L	0.1	<0.1
Total OC	µg/L	1	<1
Total OC	µg/L	1	<1
Total Other OC VIC EPA	µg/L	1	<1

OP Pesticides in Water [AN420] Tested: 17/9/2025

			BH208M
			WATER
			-
			16/9/2025
			SE289532.002
PARAMETER	UOM	LOR	
Azinphos-methyl	µg/L	0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
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	0.2	<0.2
Fenitrothion	µg/L	0.2	<0.2
Malathion	µg/L	0.2	<0.2
Methidathion	µg/L	0.5	<0.5
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2



ANALYTICAL RESULTS

SE289532 R0

PCBs in Water [AN420] Tested: 17/9/2025

			BH208M
			WATER
			-
			16/9/2025
PARAMETER	UOM	LOR	SE289532.002
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 Arochlors*	µg/L	5	<5

Full 8270 SVOC in Water [AN420] Tested: 17/9/2025

			BH208M
			WATER
			-
			16/9/2025
PARAMETER	UOM	LOR	SE289532.002
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: 17/9/2025 (continued)

			BH208M
			WATER
			-
			16/9/2025
PARAMETER	UOM	LOR	SE289532.002
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: 17/9/2025 (continued)

			BH208M
			WATER
			-
			16/9/2025
PARAMETER	UOM	LOR	SE289532.002
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	1.8
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

SE289532 R0

pH in water [AN101] Tested: 16/9/2025

			BH201M	BH208M
			WATER	WATER
			-	-
			16/9/2025	16/9/2025
			SE289532.001	SE289532.002
PARAMETER	UOM	LOR		
pH**	pH Units	0.1	5.4	5.0
Temperature of test*	°C	-	-	-



ANALYTICAL RESULTS

SE289532 R0

Conductivity and TDS by Calculation - Water [AN106] Tested: 16/9/2025

			BH201M	BH208M
			WATER	WATER
			-	-
			16/9/2025	16/9/2025
			SE289532.001	SE289532.002
PARAMETER	UOM	LOR		
Conductivity @ 25 C	µS/cm	2	440	360



ANALYTICAL RESULTS

SE289532 R0

Total Dissolved Solids (TDS) in water [AN113] Tested: 18/9/2025

			BH201M	BH208M
			WATER	WATER
			-	-
			16/9/2025	16/9/2025
			SE289532.001	SE289532.002
PARAMETER	UOM	LOR		
Total Dissolved Solids Dried at 175-185°C	mg/L	10	240	210



ANALYTICAL RESULTS

SE289532 R0

Turbidity [AN119] Tested: 16/9/2025

			BH201M	BH208M
			WATER	WATER
			-	-
			16/9/2025	16/9/2025
			SE289532.001	SE289532.002
PARAMETER	UOM	LOR		
Turbidity	NTU	0.5	12000	24



ANALYTICAL RESULTS

SE289532 R0

Total Phenolics in Water [AN295] Tested: 18/9/2025

			BH201M	BH208M
			WATER	WATER
			-	-
			16/9/2025	16/9/2025
			SE289532.001	SE289532.002
PARAMETER	UOM	LOR		
Total Phenols	mg/L	0.05	<0.05	<0.05



ANALYTICAL RESULTS

SE289532 R0

Anions by Ion Chromatography in Water [AN245] Tested: 18/9/2025

			BH208M
			WATER
			-
			16/9/2025
			SE289532.002
PARAMETER	UOM	LOR	
Chloride	mg/L	0.05	55
Bromide	mg/L	0.05	<0.05
Fluoride	mg/L	0.1	<0.10
Sulfate, SO4	mg/L	1	47
Nitrate Nitrogen, NO3-N	mg/L	0.005	0.66



ANALYTICAL RESULTS

SE289532 R0

Alkalinity [AN135] Tested: 17/9/2025

			BH208M
			WATER
			-
			16/9/2025
PARAMETER	UOM	LOR	SE289532.002
Bicarbonate Alkalinity as CaCO3	mg/L	5	31
Bicarbonate Alkalinity as HCO3	mg/L	5	38
Carbonate Alkalinity as CaCO3	mg/L	5	<5
Carbonate Alkalinity as CO3	mg/L	5	<5
Hydroxide Alkalinity as CaCO3	mg/L	5	<5
Hydroxide Alkalinity as OH	mg/L	5	<5
Total Alkalinity as CaCO3	mg/L	5	31
Carbonate Hardness as CaCO3*	mg CaCO3/L	2	31.251566666666
Non-Carbonate Hardness as CaCO3*	mg CaCO3/L	2	-
Negative Hardness as CaCO3*	mg CaCO3/L	-100	-

Dissolved Oxygen by Membrane Electrode [AN176] Tested: 16/9/2025

			BH208M
			WATER
			-
			16/9/2025
			SE289532.002
PARAMETER	UOM	LOR	
Temperature*	°C	-	20.0
Dissolved Oxygen**	mg/L	0.5	4.1
Dissolved Oxygen (percent saturation)**	%	1	44.7



ANALYTICAL RESULTS

SE289532 R0

Total and Volatile Suspended Solids (TSS / VSS) [AN114] Tested: 17/9/2025

			BH208M
			WATER
			-
			16/9/2025
			SE289532.002
PARAMETER	UOM	LOR	
Total Suspended Solids Dried at 103-105°C	mg/L	5	51



ANALYTICAL RESULTS

SE289532 R0

Forms of Carbon [AN190] Tested: 18/9/2025

			BH208M
			WATER
			-
			16/9/2025
			SE289532.002
PARAMETER	UOM	LOR	
Total Organic Carbon as NPOC	mg/L	0.2	1.8



ANALYTICAL RESULTS

SE289532 R0

Ammonia Nitrogen by Discrete Analyser [AN291] Tested: 16/9/2025

			BH208M
			WATER
			-
			16/9/2025
			SE289532.002
PARAMETER	UOM	LOR	
Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	0.02



ANALYTICAL RESULTS

SE289532 R0

Calculation of Anion-Cation Balance (SAR Calc) [AN121] Tested: 23/9/2025

			BH208M
			WATER
			-
			16/9/2025
PARAMETER	UOM	LOR	SE289532.002
Sum of Ions*	mg/L	10	205
Anion-Cation Balance	%	-100	-2.30
TFSS*	mg/L	10	205
Sodium Adsorption Ratio*	No unit	0.1	1.5



ANALYTICAL RESULTS

SE289532 R0

Nitrite in Water [AN277] Tested: 16/9/2025

			BH208M
			WATER
			-
			16/9/2025
PARAMETER	UOM	LOR	SE289532.002
Nitrite Nitrogen, NO2 as N	mg/L	0.005	0.023
Total Oxidised Nitrogen, NOx-N	mg/L	0.005	0.68



ANALYTICAL RESULTS

SE289532 R0

TKN Kjeldahl Digestion by Discrete Analyser [AN281/292] Tested: 18/9/2025

			BH208M
			WATER
			-
			16/9/2025
			SE289532.002
PARAMETER	UOM	LOR	
Total Kjeldahl Nitrogen	mg/L	0.05	0.32
Total Nitrogen (calc)	mg/L	0.05	1.0



ANALYTICAL RESULTS

SE289532 R0

Total Phosphorus by Kjeldahl Digestion DA in Water [AN279/AN293] Tested: 18/9/2025

			BH208M
			WATER
			-
			16/9/2025
			SE289532.002
PARAMETER	UOM	LOR	
Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	<0.02



ANALYTICAL RESULTS

SE289532 R0

Filterable Reactive Phosphorus (FRP) [AN278] Tested: 16/9/2025

			BH208M
			WATER
			-
			16/9/2025
			SE289532.002
PARAMETER	UOM	LOR	
Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005



ANALYTICAL RESULTS

SE289532 R0

Redox Potential (Eh) in water [AN240] Tested: 16/9/2025

			BH208M
			WATER
			-
			16/9/2025
PARAMETER	UOM	LOR	SE289532.002
Eh of Sample Relative to Standard H+ Electrode***	mV	-500	450
Temperature of Sample*	°C	0.1	22.6

Metals in Water (Dissolved) by ICPOES [AN320] Tested: 19/9/2025

PARAMETER	UOM	LOR	BH201M	BH208M
			WATER - 16/9/2025 SE289532.001	WATER - 16/9/2025 SE289532.002
Calcium, Ca	mg/L	0.2	8.1	26
Magnesium, Mg	mg/L	0.1	2.6	2.5
Total Hardness by Calculation	mg CaCO3/L	1	31	76
Sodium Adsorption Ratio	No unit	0.2	-	1.5
Sodium, Na	mg/L	0.5	-	31
Potassium, K	mg/L	0.1	-	7.9
Lithium, Li	mg/L	0.005	-	<0.005
Silicon, Si*	mg/L	0.05	-	2.5
Soluble Silicon as Silica, SiO2*	mg/L	0.1	-	5.2

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 22/9/2025

PARAMETER	UOM	LOR	BH201M	BH208M	QD_20250916	R1-20250916
			WATER	WATER	WATER	WATER
			- 16/9/2025 SE289532.001	- 16/9/2025 SE289532.002	- 16/9/2025 SE289532.003	- 16/9/2025 SE289532.006
Silver	µg/L	1	-	<1	-	-
Aluminium	µg/L	5	62	23	-	-
Arsenic	µg/L	1	<1	<1	<1	<1
Cadmium	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Chromium	µg/L	1	2	<1	1	<1
Copper	µg/L	1	6	3	4	<1
Lead	µg/L	1	<1	<1	<1	<1
Nickel	µg/L	1	8	4	8	<1
Zinc	µg/L	5	35	13	34	<5
Antimony	µg/L	1	-	<1	-	-
Barium	µg/L	1	-	17	-	-
Beryllium	µg/L	1	-	<1	-	-
Boron	µg/L	5	-	78	-	-
Cobalt	µg/L	1	-	1	-	-
Iron	µg/L	5	-	380	-	-
Manganese	µg/L	1	-	21	-	-
Molybdenum	µg/L	1	-	<1	-	-
Selenium	µg/L	1	-	1	-	-
Strontium	µg/L	1	-	83	-	-
Uranium	µg/L	1	-	<1	-	-
Vanadium	µg/L	1	-	<1	-	-



ANALYTICAL RESULTS

SE289532 R0

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 23/9/2025

			BH201M	BH208M	QD_20250916	R1-20250916
			WATER	WATER	WATER	WATER
			-	-	-	-
			16/9/2025	16/9/2025	16/9/2025	16/9/2025
PARAMETER	UOM	LOR	SE289532.001	SE289532.002	SE289532.003	SE289532.006
Mercury, Hg	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples [AN404] Tested: 17/9/2025

			BH208M
			WATER
			-
			16/9/2025
PARAMETER	UOM	LOR	SE289532.002
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.03
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.03
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.01
Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.04
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	0.03
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	0.04
Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	0.09
Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	0.08
Sum of PFAS A	µg/L	0.01	0.11
Sum of PFAS B	µg/L	0.01	<0.01
Sum of PFAS C	µg/L	0.01	0.06
Sum of Positive PFAS	µg/L	0.01	0.17



ANALYTICAL RESULTS

SE289532 R0

Total Cyanide in water by Discrete Analyser [AN077/AN287] Tested: 18/9/2025

			BH201M
			WATER
			-
			16/9/2025
			SE289532.001
PARAMETER	UOM	LOR	
Total Cyanide	mg/L	0.004	<0.004



ANALYTICAL RESULTS

SE289532 R0

E. coli, Total and Faecal (Thermotolerant) coliforms in Water (MPN) [AN735] Tested: 17/9/2025

			BH208M
			WATER
			-
			16/9/2025
			SE289532.002
PARAMETER	UOM	LOR	
Date & Time Processed*	No unit	-	2025-09-17 19:07
Faecal Coliforms	MPN/100mL	1	<1
Notes for Faecal coliforms	No unit	-	-
E. coli	MPN/100mL	1	<1
Notes for E. coli	No unit	-	-



ANALYTICAL RESULTS

SE289532 R0

Enterococci in Water [AN705] Tested: 17/9/2025

			BH208M
			WATER
			-
			16/9/2025
			SE289532.002
PARAMETER	UOM	LOR	
Date & Time Processed*	No unit	-	2025-09-17 19:07
Intestinal Enterococci*	CFU/100mL	1	<1
Notes*	No unit	-	-

METHOD

METHODOLOGY SUMMARY

AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN077	Hydrogen cyanide is liberated from an acidified sample by distillation and purging with air. The hydrogen cyanide gas is then collected by passing it through a sodium hydroxide scrubbing solution. The scrubbing solution will then be analysed for cyanide by the appropriate method.
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 calculate 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 CO ₂ 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 O ₂ /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.
AN287	A buffered distillate or water sample is treated with chloramine/barbituric acid reagents and the intensity of the colour developed is proportional to the cyanide concentration by DA.
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.

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).

AN735

The Colilert matrix contains two nutrient indicators, ONPG (ortho-nitro-phenyl B-d- galactopyranoside) and MUG (4-methyl-umbelliferyl B-d-glucuronide). As coliforms grow, they use B-galactosidase to metabolise ONPG which causes yellow colouration of the matrix via the nitro-phenyl. E.coli possesses an additional enzyme, B-glucuronidase, which it uses to metabolise MUG and display florescence (caused by the 4 methyl-umbelliferyl). Incubation at 37°C.

AN735

Non target organisms are suppressed by a combination of high salts, detergents etc. present within the matrix . Faecal coliforms are thermotolerant, thus they can be enumerated by testing at 44.5°C.

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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SGS Reference **SE251689 R0**
 Date Received **2/8/2023**
 Date Reported **7/8/2023**

COMMENTS

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

SIGNATORIES



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 Metals/Inorganics Team Leader



Ly Kim HA
 Organic Section Head

VOCs in Water [AN433] Tested: 3/8/2023

PARAMETER	UOM	LOR	GWBH101M	QD1	Trip blank	Trip spike
			WATER	WATER	WATER	WATER
			-	-	-	-
			2/8/2023	2/8/2023	2/8/2023	2/8/2023
			SE251689.001	SE251689.002	SE251689.003	SE251689.004
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	[100%]
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	[102%]
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	[103%]
m/p-xylene	µg/L	1	<1	<1	<1	[105%]
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	[102%]
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	-
Total BTEX	µg/L	3	<3	<3	<3	-
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	[95%]



ANALYTICAL RESULTS

SE251689 R0

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 3/8/2023

PARAMETER	UOM	LOR	GWBH101M	QD1
			WATER	WATER
			-	-
			2/8/2023	2/8/2023
			SE251689.001	SE251689.002
TRH C6-C9	µg/L	40	<40	<40
Benzene (F0)	µg/L	0.5	<0.5	<0.5
TRH C6-C10	µg/L	50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50



ANALYTICAL RESULTS

SE251689 R0

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 3/8/2023

			GWBH101M	QD1
			WATER	WATER
			-	-
			2/8/2023	2/8/2023
PARAMETER	UOM	LOR	SE251689.001	SE251689.002
TRH C10-C14	µg/L	50	<50	<50
TRH C15-C28	µg/L	200	<200	<200
TRH C29-C36	µg/L	200	<200	<200
TRH C37-C40	µg/L	200	<200	<200
TRH >C10-C16	µg/L	60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500
TRH C10-C40	µg/L	320	<320	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 3/8/2023

			GWBH101M
			WATER
			-
			2/8/2023
PARAMETER	UOM	LOR	SE251689.001
Naphthalene	µg/L	0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1
Fluorene	µg/L	0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1
Anthracene	µg/L	0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1
Pyrene	µg/L	0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1
Chrysene	µg/L	0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Total PAH (18)	µg/L	1	<1



ANALYTICAL RESULTS

SE251689 R0

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 3/8/2023

			GWBH101M	QD1
			WATER	WATER
			-	-
			2/8/2023	2/8/2023
PARAMETER	UOM	LOR	SE251689.001	SE251689.002
Arsenic	µg/L	1	<1	<1
Cadmium	µg/L	0.1	<0.1	<0.1
Chromium	µg/L	1	<1	<1
Copper	µg/L	1	<1	1
Lead	µg/L	1	<1	<1
Nickel	µg/L	1	3	3
Zinc	µg/L	5	23	22



ANALYTICAL RESULTS

SE251689 R0

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 4/8/2023

			GWBH101M	QD1
			WATER	WATER
			-	-
			2/8/2023	2/8/2023
PARAMETER	UOM	LOR	SE251689.001	SE251689.002
Mercury	mg/L	0.0001	<0.0001	<0.0001

METHOD

METHODOLOGY SUMMARY

- AN020** Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
- AN311(Perth)/AN312** Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
- AN318** Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
- 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.
- 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 .
- AN433** VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	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.
		LNR	Sample listed, but not received.		

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: www.sgs.com.au/en-gb/environment-health-and-safety.

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Appendix K -QA/QC Assessment

I1 Overview of QA/QC Program

Quality assurance comprises an assessment of the reliability of the field procedures and laboratory results against standard industry practices and the SAQP. An overview of the project QA/QC measures incorporated into this investigation is presented in **Table I-1**.

Table I-1 QA/QC Protocols

Task	Description	Project
Field QA/QC		
General	Work was undertaken following standard field procedures which are based on industry accepted standard practice.	Soil samples were collected directly off drilling rods or hand auger or hand trowel. Soil samples were placed in 250 gram glass jars, which were filled to minimise headspace, and sealed using Teflon-coated lids.
	All fieldwork was supervised by a suitably qualified and experienced scientist or engineer.	Yes
Rinsate Sample	Two rinsate samples were collected and analysed for the primary contaminants.	The results for rinsate samples of R1 and R1-20250916 were mostly reported below laboratory PQL. A detection of toluene (0.8 µg/L) in sample R1 was reported. Testing of rinsate blank RB1 also reported a toluene concentration of (0.8 µg/L). As such, it is unlikely that any toluene concentrations within primary samples were influenced by plant or equipment contamination. All primary soil samples also reported toluene below the limit of reporting (LOR).
Transport	Samples were stored in a chilled (with ice bricks) cooler box and transported to the laboratories. To ensure their integrity from collection to laboratory receipt, samples were sent by courier to the laboratories under 'chain of custody' describing sample preservation and transport.	Yes
Trip Blank	Laboratory-prepared trip blank sample to be analysed for BTEX. Ideally, analytical results were to be below the LOR, indicating satisfactory sample transport and handling conditions (i.e. no cross-contamination of volatiles).	One trip blank sample was collected from each sampling event (TB, sampled on 8/09/25, TB2 and TS, sampled on 16/09/25), prepared by SGS, was analysed for BTEX. The results were all reported <LOR, indicating satisfactory sample transport and handling conditions were achieved (i.e. no cross-contamination of volatiles during transport).

Task	Description	Project
Trip Spike	Laboratory-prepared trip spike sample to be analysed for BTEX. Ideally, analytical results (recoveries) were to be 80-120%, indicating satisfactory sample transport and handling conditions (i.e. no loss of volatiles).	One trip spike sample was collected from each sampling event (TS, sampled on 8/09/25, TS2 and TS, sampled on 16/09/25), prepared by SGS, was analysed for BTEX. The recoveries were within the adopted DQI, indicating satisfactory sample transport and handling conditions were achieved (i.e. no loss of volatiles during transport).
Duplicates	Field (blind / split) duplicates were to be analysed as follows: Intra-laboratory and inter-laboratory duplicates collected at a rate of one pair per 20 primary samples.	Results for field duplicates, with calculated RPD values, are presented in Appendix K . Generally, RPD values complied with the DQI and variability was explained by sample (fill) heterogeneity.
Laboratory QA/QC		
Laboratory Analysis	The laboratories selected are NATA accredited for the analytes selected and perform their own internal QA/QC programs.	Yes SGS - primary laboratory Envirolab - secondary laboratory Laboratory QA/QC analyses performed as per NATA accreditation requirements.
	Appropriate detection limits were used for the analyses to be undertaken.	PQLs for all tested parameters are presented in Appendix J .
	Methods followed are generally in accordance with the requirements of NEPC (2013).	Yes
Holding Times	Holding times are the maximum permissible elapsed time in days from the collection of the sample to its extraction and/or analysis. All extraction and analyses should be completed within standard guidelines.	Assessment of holding times has been undertaken by the laboratory. No non-compliance.
Method Blanks	Each analysis procedure should include a method blank sample. The method blank contains the reagents used to prepare each sample for the given analysis. The purpose is to identify (check) contamination in the reagent materials and thereby assess potential bias. The results of each method blank should be <LOR.	Assessment of method blanks has been undertaken by the laboratory. No non-compliance.

Task	Description	Project
Laboratory Duplicates	Laboratory duplicates are field samples from the same batch that are analysed a number of times. They are randomly selected by the laboratory at a frequency of 1 per 10 primary samples, in order to assess precision of the analytical method.	Assessment of laboratory duplicates has been undertaken by the laboratory. Calculated RPDs generally within acceptable ranges. The following duplicates exceeded acceptance criteria due to sample heterogeneity. - LB360754.014 - LB360754.023 - LB360765.014 - LB360765.023
Laboratory Control Standards	A laboratory control standard is a standard reference material used to prepare primary standards. The concentration should be equivalent to a mid-range standard to confirm the primary calibration. Laboratory control samples should be performed on a frequency of 1 per 20 samples or at least one per analytical run.	Assessment of laboratory control standards has been undertaken by the laboratory. No non-compliance.
Matrix Spikes / Matrix Spike Duplicates	Matrix spikes are field samples to which a predetermined stock solution of known concentration has been added. The samples are then analysed for recovery of the known addition. Recoveries should be within the limits of 70-130% and duplicates should have RPDs of less than 50%.	Assessment of matrix spikes a has been undertaken by the laboratory. No non-compliance
Surrogate Spikes	Surrogate spikes provide a means of checking, for every analysis that no gross errors have occurred at any stage of the procedure leading to significant analyte loss. Recoveries should be within 70-130%.	Assessment of surrogate spikes has been undertaken by the laboratory. No laboratory surrogate was outside recovery control limits:
QA/QC Conclusion	The QA/QC indicators should either all comply with the required standards or show no variations that would have no significant effect on the quality of the data.	Assessment of the investigation QA/QC is presented in the following sections.

Calculation of Relative Percentage Difference (RPD)

The RPD values were calculated using the following equation:

$$RPD = \frac{|C_O - C_R|}{[(C_O + C_R)/2]} \times 100$$

Where:

C_O = Concentration obtained for the primary sample; and

C_R = Concentration obtained for the blind replicate or split duplicate sample.

The DQI was 30%. RPDs that exceed this range were considered acceptable where:

- Results were less than 10 times the limits of reporting (LOR);
- Results were less than 20 times the LOR and the RPD was less than 50%; or
- Heterogeneous materials or volatile compounds were encountered.

I2 Field QA/QC

The field QC samples collected during the investigation were as follows:

- Blind field (intra-laboratory) duplicate of soil sample BH209_0.2-0.3, identified as QD-20250908 and analysed by the primary laboratory SGS;
- Split field (inter-laboratory) duplicate of soil sample BH209_0.2-0.3, identified as QT-20250908 and analysed by the secondary laboratory, Envirolab;
- Blind field (intra-laboratory) duplicate of groundwater sample BH201M, identified as QD-20250916 and analysed by the primary laboratory SGS;
- Split field (inter-laboratory) duplicate of groundwater sample BH201M, identified as QT-20250916 and analysed by the secondary laboratory, Envirolab;
- Trip blanks (TB, sampled on 8/0925, TB2 and TB, sampled on 16/09/25);
- Trip spike (TS, sampled on 8/0925, TS2 and TS, sampled on 16/09/25);
- Equipment rinsate (R1 and R1-20250916); and
- Equipment rinsate blank (RB1).

Analytical results for the tested QC samples, including calculated RPD values between primary and duplicate samples, are presented in the QC summary table (**Appendix K**). A discussion of the corresponding (field) data quality indicators is presented in **Table I-2** below.

Table I-2 Field Data Quality Indicators

DQI	Item	Conformance
Precision Measure of the variability (or reproducibility) of data.	SOPs appropriate and complied with	Yes
Accuracy Quantitative measure of the closeness of reported data to the true values.	SOPs appropriate and complied with	Yes
	Calibration of instruments against known standards	Yes
Representativeness Confidence that the data are representative of each media present on the site.	Appropriate media sampled according to SAQP	Yes
	Each media identified in SAQP sampled	Yes
Completeness Percentage of useable data from sampling episode (set).	Each critical location sampled	Yes
	SAQP appropriate and complied with	Yes
	Appropriate number of field duplicate samples taken	Yes
	Experienced sampler	Yes
	Field documentation correct	Yes
Comparability Confidence [expressed]	Same sampling method used on each occasion/location	Yes

DQI	Item	Conformance
Precision Measure of the variability (or reproducibility) of data.	SOPs appropriate and complied with	Yes
Accuracy Quantitative measure of the closeness of reported data to the true values.	SOPs appropriate and complied with	Yes
	Calibration of instruments against known standards	Yes
Representativeness Confidence that the data are representative of each media present on the site.	Appropriate media sampled according to SAQP	Yes
	Each media identified in SAQP sampled	Yes
qualitatively] that data may be considered to be equivalent for each sampling and analytical event.	Experienced sampler	Yes
	Same type of samples collected (filtered, size, fractions)	Yes

Conclusion for the Field QA/QC

All field work, including equipment decontamination and sample preservation and transport, was conducted in accordance with the SAQP and SOPs, which were devised with reference to industry-approved guidelines. Appropriate QC measures were integrated into each sampling event and the DQI were met, or if not, the variability was suitably justified.

All samples, including field QC samples, were transported to the primary and secondary laboratories under refrigerated conditions, using strict COC procedures. Relevant documents (COC forms) were presented with the samples at the times of delivery. All supporting documents (COCs and SRAs) were completed in full and signed, where appropriate. Copies of these were included in **Appendix I**. EI considered the field QA/QC program carried out during the investigation to be appropriate.

13 Laboratory QA/QC

Primary and intra-laboratory duplicate samples were analysed by SGS (located in Alexandria NSW), with inter-laboratory duplicate samples analysed by Envirolab (located in Chatswood NSW). All laboratories are accredited by NATA for the analyses undertaken. A discussion of the laboratory DQIs is presented in **Table J-3** below.

Table J-3 Laboratory Data Quality Indicators

DQI	Item	Conformance
Completeness A measure of the amount of useable data (expressed as %) from a data collection activity	All critical samples analysed according to SAQP and proposal	Yes
	All analytes analysed according to SAQP in proposal	Yes
	Appropriate methods and PQLs	Yes
	Sample documentation complete	Yes
	Sample holding times complied with	Yes
Comparability The confidence (expressed qualitatively) that data are equivalent for each sampling and analytical event	Sample analytical methods used (including clean-up)	Yes
	Sample PQLs (justify/ quantify if different)	Yes
	Same laboratories (justify/ quantify if different)	Yes
	Same units (justify/ quantify if different)	Yes
Representativeness Confidence that data represent the media concerned	All key samples analysed according to SAQP in the proposal and standard SOPs	Yes
Precision A quantitative measure of the variability (or reproducibility) of data	Analysis of laboratory duplicates	Yes
	Analysis of field duplicates	Yes
	Analysis of laboratory-prepared volatile trip spikes	Yes
Accuracy A quantitative measure of the closeness of reported data to the true value	Analysis of field blanks	Yes
	Analysis of rinsate blanks	Yes
	Analysis of method blanks	Yes
	Analysis of matrix spikes (MS)	Yes
	Analysis of surrogate spikes	Yes
	Analysis of reference materials	Not applicable
	Analysis of laboratory control samples	Yes

Conclusions for the Laboratory QA/QC

All contracted laboratories (SGS and Envirolab) were accredited by NATA for the analyses undertaken. All analytical procedures used were industry recognised and endorsed standard methods. Appropriate QC measures were integrated into each testing batch and the DQI were met, or if not, the variability was suitably justified. All final reports were submitted in full and

included all requested analyses, as per the signed COC forms. EI considered the laboratory QA/QC programs carried out during the investigation to be appropriate

I4 Summary of Project QA/QC

The sampling (including sample preservation, transport and decontamination procedures) and laboratory methods followed during this investigation were consistent with EI protocols. The project DQO specified in **Section 5.2, Table 5-1** were considered to have been achieved. The adopted QA/QC program ensured that the data collated during the DSI were accurate, precise and representative of the site condition. It was therefore considered that the data were sufficiently precise and accurate and that the results could be used for interpretative purposes.

Appendix L -Laboratory QA/QC Policies and DQOs



STATEMENT OF QA/QC PERFORMANCE

SE289121 R0

CLIENT DETAILS

Contact Andrew Ibrahim
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PYRMONT NSW 2009

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Facsimile (Not specified)
Email andrew.ibrahim@eiaustralia.com.au

Project **E25559 13-15 Oxford St. & 2 Verona St.**
Order Number **E25559**
Samples 15

LABORATORY DETAILS

Manager Shane McDermott
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

SGS Reference **SE289121 R0**
Date Received 08 Sep 2025
Date Reported 16 Sep 2025

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.

This QA/QC Statement must be read in conjunction with the referenced Analytical Report.

The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Surrogate	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	1 item
Duplicate	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
Matrix Spike	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item

SAMPLE SUMMARY

Sample counts by matrix	14 Soil, 1 Water	Type of documentation received	COC
Date documentation received	9/9/2025@9:58am	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	20.3°C
Sample container provider	SGS	Turnaround time requested	Standard
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

SE289121 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Fibre Identification in soil

Method: ME-(AU)-[ENV]AS4964/AN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH202-0.2-0.3	SE289121.001	LB360422	08 Sep 2025	08 Sep 2025	08 Sep 2026	10 Sep 2025	08 Sep 2026	16 Sep 2025
BH203-0.2-0.3	SE289121.002	LB360422	08 Sep 2025	08 Sep 2025	08 Sep 2026	10 Sep 2025	08 Sep 2026	16 Sep 2025
BH204-0.15-0.2	SE289121.003	LB360422	08 Sep 2025	08 Sep 2025	08 Sep 2026	10 Sep 2025	08 Sep 2026	16 Sep 2025
BH205-0.2-0.3	SE289121.005	LB360422	08 Sep 2025	08 Sep 2025	08 Sep 2026	10 Sep 2025	08 Sep 2026	16 Sep 2025
BH206-0.15-0.2	SE289121.007	LB360422	08 Sep 2025	08 Sep 2025	08 Sep 2026	10 Sep 2025	08 Sep 2026	16 Sep 2025
BH207-0.2-0.3	SE289121.008	LB360422	08 Sep 2025	08 Sep 2025	08 Sep 2026	10 Sep 2025	08 Sep 2026	16 Sep 2025
BH209-0.2-0.3	SE289121.010	LB360422	09 Sep 2025	08 Sep 2025	09 Sep 2026	10 Sep 2025	09 Sep 2026	16 Sep 2025

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
R1	SE289121.015	LB360340	09 Sep 2025	08 Sep 2025	07 Oct 2025	10 Sep 2025	07 Oct 2025	10 Sep 2025

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH202-0.2-0.3	SE289121.001	LB360952	08 Sep 2025	08 Sep 2025	06 Oct 2025	15 Sep 2025	06 Oct 2025	16 Sep 2025
BH203-0.2-0.3	SE289121.002	LB360952	08 Sep 2025	08 Sep 2025	06 Oct 2025	15 Sep 2025	06 Oct 2025	16 Sep 2025
BH204-0.15-0.2	SE289121.003	LB360952	08 Sep 2025	08 Sep 2025	06 Oct 2025	15 Sep 2025	06 Oct 2025	16 Sep 2025
BH204-0.5-0.6	SE289121.004	LB360952	08 Sep 2025	08 Sep 2025	06 Oct 2025	15 Sep 2025	06 Oct 2025	16 Sep 2025
BH205-0.2-0.3	SE289121.005	LB360952	08 Sep 2025	08 Sep 2025	06 Oct 2025	15 Sep 2025	06 Oct 2025	16 Sep 2025
BH205-0.4-0.5	SE289121.006	LB360952	08 Sep 2025	08 Sep 2025	06 Oct 2025	15 Sep 2025	06 Oct 2025	16 Sep 2025
BH206-0.15-0.2	SE289121.007	LB360952	08 Sep 2025	08 Sep 2025	06 Oct 2025	15 Sep 2025	06 Oct 2025	16 Sep 2025
BH207-0.2-0.3	SE289121.008	LB360952	08 Sep 2025	08 Sep 2025	06 Oct 2025	15 Sep 2025	06 Oct 2025	16 Sep 2025
BH208M-0.7-0.8	SE289121.009	LB360952	08 Sep 2025	08 Sep 2025	06 Oct 2025	15 Sep 2025	06 Oct 2025	16 Sep 2025
BH209-0.2-0.3	SE289121.010	LB360953	09 Sep 2025	08 Sep 2025	07 Oct 2025	15 Sep 2025	07 Oct 2025	16 Sep 2025
BH209-0.8-0.9	SE289121.011	LB360953	09 Sep 2025	08 Sep 2025	07 Oct 2025	15 Sep 2025	07 Oct 2025	16 Sep 2025
QD-20250908	SE289121.012	LB360953	09 Sep 2025	08 Sep 2025	07 Oct 2025	15 Sep 2025	07 Oct 2025	16 Sep 2025

Moisture Content

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH202-0.2-0.3	SE289121.001	LB360390	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025
BH203-0.2-0.3	SE289121.002	LB360390	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025
BH204-0.15-0.2	SE289121.003	LB360390	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025
BH204-0.5-0.6	SE289121.004	LB360390	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025
BH205-0.2-0.3	SE289121.005	LB360390	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025
BH205-0.4-0.5	SE289121.006	LB360390	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025
BH206-0.15-0.2	SE289121.007	LB360390	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025
BH207-0.2-0.3	SE289121.008	LB360390	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025
BH208M-0.7-0.8	SE289121.009	LB360390	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025
BH209-0.2-0.3	SE289121.010	LB360390	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025
BH209-0.8-0.9	SE289121.011	LB360390	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025
QD-20250908	SE289121.012	LB360390	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025
TB	SE289121.014	LB360390	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	15 Sep 2025	11 Sep 2025

OC Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH202-0.2-0.3	SE289121.001	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH203-0.2-0.3	SE289121.002	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH204-0.15-0.2	SE289121.003	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH204-0.5-0.6	SE289121.004	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH205-0.2-0.3	SE289121.005	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH205-0.4-0.5	SE289121.006	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH206-0.15-0.2	SE289121.007	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH207-0.2-0.3	SE289121.008	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH208M-0.7-0.8	SE289121.009	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH209-0.2-0.3	SE289121.010	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH209-0.8-0.9	SE289121.011	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
QD-20250908	SE289121.012	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025

OP Pesticides in Soil

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

Sample Name	Sample No.	QC Ref
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HOLDING TIME SUMMARY

SE289121 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

OP Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH202-0.2-0.3	SE289121.001	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH203-0.2-0.3	SE289121.002	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH204-0.15-0.2	SE289121.003	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH204-0.5-0.6	SE289121.004	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH205-0.2-0.3	SE289121.005	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH205-0.4-0.5	SE289121.006	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH206-0.15-0.2	SE289121.007	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH207-0.2-0.3	SE289121.008	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH208M-0.7-0.8	SE289121.009	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH209-0.2-0.3	SE289121.010	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH209-0.8-0.9	SE289121.011	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
QD-20250908	SE289121.012	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH202-0.2-0.3	SE289121.001	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH203-0.2-0.3	SE289121.002	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH204-0.15-0.2	SE289121.003	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH204-0.5-0.6	SE289121.004	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH205-0.2-0.3	SE289121.005	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH205-0.4-0.5	SE289121.006	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH206-0.15-0.2	SE289121.007	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH207-0.2-0.3	SE289121.008	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH208M-0.7-0.8	SE289121.009	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH209-0.2-0.3	SE289121.010	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH209-0.8-0.9	SE289121.011	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
QD-20250908	SE289121.012	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025

PCBs in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH202-0.2-0.3	SE289121.001	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH203-0.2-0.3	SE289121.002	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH204-0.15-0.2	SE289121.003	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH204-0.5-0.6	SE289121.004	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH205-0.2-0.3	SE289121.005	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH205-0.4-0.5	SE289121.006	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH206-0.15-0.2	SE289121.007	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH207-0.2-0.3	SE289121.008	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH208M-0.7-0.8	SE289121.009	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH209-0.2-0.3	SE289121.010	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH209-0.8-0.9	SE289121.011	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
QD-20250908	SE289121.012	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-ENVJAN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH202-0.2-0.3	SE289121.001	LB360362	08 Sep 2025	08 Sep 2025	07 Mar 2026	10 Sep 2025	07 Mar 2026	16 Sep 2025
BH203-0.2-0.3	SE289121.002	LB360362	08 Sep 2025	08 Sep 2025	07 Mar 2026	10 Sep 2025	07 Mar 2026	16 Sep 2025
BH204-0.15-0.2	SE289121.003	LB360362	08 Sep 2025	08 Sep 2025	07 Mar 2026	10 Sep 2025	07 Mar 2026	16 Sep 2025
BH204-0.5-0.6	SE289121.004	LB360362	08 Sep 2025	08 Sep 2025	07 Mar 2026	10 Sep 2025	07 Mar 2026	16 Sep 2025
BH205-0.2-0.3	SE289121.005	LB360362	08 Sep 2025	08 Sep 2025	07 Mar 2026	10 Sep 2025	07 Mar 2026	16 Sep 2025
BH205-0.4-0.5	SE289121.006	LB360362	08 Sep 2025	08 Sep 2025	07 Mar 2026	10 Sep 2025	07 Mar 2026	16 Sep 2025
BH206-0.15-0.2	SE289121.007	LB360362	08 Sep 2025	08 Sep 2025	07 Mar 2026	10 Sep 2025	07 Mar 2026	16 Sep 2025
BH207-0.2-0.3	SE289121.008	LB360362	08 Sep 2025	08 Sep 2025	07 Mar 2026	10 Sep 2025	07 Mar 2026	16 Sep 2025
BH208M-0.7-0.8	SE289121.009	LB360362	08 Sep 2025	08 Sep 2025	07 Mar 2026	10 Sep 2025	07 Mar 2026	16 Sep 2025
BH209-0.2-0.3	SE289121.010	LB360950	09 Sep 2025	08 Sep 2025	08 Mar 2026	15 Sep 2025	08 Mar 2026	16 Sep 2025
BH209-0.8-0.9	SE289121.011	LB360950	09 Sep 2025	08 Sep 2025	08 Mar 2026	15 Sep 2025	08 Mar 2026	16 Sep 2025
QD-20250908	SE289121.012	LB360950	09 Sep 2025	08 Sep 2025	08 Mar 2026	15 Sep 2025	08 Mar 2026	16 Sep 2025

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-ENVJAN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
R1	SE289121.015	LB360486	09 Sep 2025	08 Sep 2025	08 Mar 2026	11 Sep 2025	08 Mar 2026	11 Sep 2025



HOLDING TIME SUMMARY

SE289121 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH202-0.2-0.3	SE289121.001	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH203-0.2-0.3	SE289121.002	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH204-0.15-0.2	SE289121.003	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH204-0.5-0.6	SE289121.004	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH205-0.2-0.3	SE289121.005	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH205-0.4-0.5	SE289121.006	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH206-0.15-0.2	SE289121.007	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH207-0.2-0.3	SE289121.008	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH208M-0.7-0.8	SE289121.009	LB360318	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH209-0.2-0.3	SE289121.010	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
BH209-0.8-0.9	SE289121.011	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025
QD-20250908	SE289121.012	LB360318	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	20 Oct 2025	12 Sep 2025

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
R1	SE289121.015	LB360325	09 Sep 2025	08 Sep 2025	16 Sep 2025	10 Sep 2025	20 Oct 2025	15 Sep 2025

VOC's in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH202-0.2-0.3	SE289121.001	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH203-0.2-0.3	SE289121.002	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH204-0.15-0.2	SE289121.003	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH204-0.5-0.6	SE289121.004	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH205-0.2-0.3	SE289121.005	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH205-0.4-0.5	SE289121.006	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH206-0.15-0.2	SE289121.007	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH207-0.2-0.3	SE289121.008	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH208M-0.7-0.8	SE289121.009	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH209-0.2-0.3	SE289121.010	LB360358	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	23 Sep 2025	12 Sep 2025
BH209-0.8-0.9	SE289121.011	LB360358	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	23 Sep 2025	12 Sep 2025
QD-20250908	SE289121.012	LB360358	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	23 Sep 2025	12 Sep 2025
TS	SE289121.013	LB360358	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	23 Sep 2025	12 Sep 2025
TB	SE289121.014	LB360358	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	23 Sep 2025	12 Sep 2025

VOCs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
R1	SE289121.015	LB360594	09 Sep 2025	08 Sep 2025	23 Sep 2025	11 Sep 2025	23 Sep 2025	12 Sep 2025

Volatile Petroleum Hydrocarbons in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH202-0.2-0.3	SE289121.001	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH203-0.2-0.3	SE289121.002	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH204-0.15-0.2	SE289121.003	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH204-0.5-0.6	SE289121.004	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH205-0.2-0.3	SE289121.005	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH205-0.4-0.5	SE289121.006	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH206-0.15-0.2	SE289121.007	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH207-0.2-0.3	SE289121.008	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH208M-0.7-0.8	SE289121.009	LB360358	08 Sep 2025	08 Sep 2025	22 Sep 2025	10 Sep 2025	22 Sep 2025	12 Sep 2025
BH209-0.2-0.3	SE289121.010	LB360358	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	23 Sep 2025	12 Sep 2025
BH209-0.8-0.9	SE289121.011	LB360358	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	23 Sep 2025	12 Sep 2025
QD-20250908	SE289121.012	LB360358	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	23 Sep 2025	12 Sep 2025
TS	SE289121.013	LB360358	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	23 Sep 2025	15 Sep 2025
TB	SE289121.014	LB360358	09 Sep 2025	08 Sep 2025	23 Sep 2025	10 Sep 2025	23 Sep 2025	15 Sep 2025

Volatile Petroleum Hydrocarbons in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
R1	SE289121.015	LB360594	09 Sep 2025	08 Sep 2025	23 Sep 2025	11 Sep 2025	23 Sep 2025	12 Sep 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH202_0.2-0.3	SE289121.001	%	60 - 130%	96
	BH203-0.2-0.3	SE289121.002	%	60 - 130%	98
	BH204-0.15-0.2	SE289121.003	%	60 - 130%	97
	BH205-0.2-0.3	SE289121.005	%	60 - 130%	100
	BH206-0.15-0.2	SE289121.007	%	60 - 130%	97
	BH207-0.2-0.3	SE289121.008	%	60 - 130%	92
	BH209-0.2-0.3	SE289121.010	%	60 - 130%	94

OP Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH202_0.2-0.3	SE289121.001	%	60 - 130%	93
	BH203-0.2-0.3	SE289121.002	%	60 - 130%	97
	BH204-0.15-0.2	SE289121.003	%	60 - 130%	94
	BH205-0.2-0.3	SE289121.005	%	60 - 130%	99
	BH206-0.15-0.2	SE289121.007	%	60 - 130%	96
	BH207-0.2-0.3	SE289121.008	%	60 - 130%	90
	BH209-0.2-0.3	SE289121.010	%	60 - 130%	89
d14-p-terphenyl (Surrogate)	BH202_0.2-0.3	SE289121.001	%	60 - 130%	93
	BH203-0.2-0.3	SE289121.002	%	60 - 130%	90
	BH204-0.15-0.2	SE289121.003	%	60 - 130%	93
	BH205-0.2-0.3	SE289121.005	%	60 - 130%	95
	BH206-0.15-0.2	SE289121.007	%	60 - 130%	91
	BH207-0.2-0.3	SE289121.008	%	60 - 130%	87
	BH209-0.2-0.3	SE289121.010	%	60 - 130%	89

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH202_0.2-0.3	SE289121.001	%	70 - 130%	93
	BH203-0.2-0.3	SE289121.002	%	70 - 130%	97
	BH204-0.15-0.2	SE289121.003	%	70 - 130%	94
	BH204-0.5-0.6	SE289121.004	%	70 - 130%	90
	BH205-0.2-0.3	SE289121.005	%	70 - 130%	99
	BH205-0.4-0.5	SE289121.006	%	70 - 130%	95
	BH206-0.15-0.2	SE289121.007	%	70 - 130%	96
	BH207-0.2-0.3	SE289121.008	%	70 - 130%	90
	BH208M-0.7-0.8	SE289121.009	%	70 - 130%	103
	BH209-0.2-0.3	SE289121.010	%	70 - 130%	89
	BH209-0.8-0.9	SE289121.011	%	70 - 130%	82
	BH202_0.2-0.3	SE289121.001	%	70 - 130%	93
	BH203-0.2-0.3	SE289121.002	%	70 - 130%	90
d14-p-terphenyl (Surrogate)	BH204-0.15-0.2	SE289121.003	%	70 - 130%	93
	BH204-0.5-0.6	SE289121.004	%	70 - 130%	86
	BH205-0.2-0.3	SE289121.005	%	70 - 130%	95
	BH205-0.4-0.5	SE289121.006	%	70 - 130%	91
	BH206-0.15-0.2	SE289121.007	%	70 - 130%	91
	BH207-0.2-0.3	SE289121.008	%	70 - 130%	87
	BH208M-0.7-0.8	SE289121.009	%	70 - 130%	102
	BH209-0.2-0.3	SE289121.010	%	70 - 130%	89
	BH209-0.8-0.9	SE289121.011	%	70 - 130%	80
	BH202_0.2-0.3	SE289121.001	%	70 - 130%	91
	BH203-0.2-0.3	SE289121.002	%	70 - 130%	88
	BH204-0.15-0.2	SE289121.003	%	70 - 130%	85
	BH204-0.5-0.6	SE289121.004	%	70 - 130%	79
d5-nitrobenzene (Surrogate)	BH205-0.2-0.3	SE289121.005	%	70 - 130%	84
	BH205-0.4-0.5	SE289121.006	%	70 - 130%	81
	BH206-0.15-0.2	SE289121.007	%	70 - 130%	79
	BH207-0.2-0.3	SE289121.008	%	70 - 130%	76
	BH208M-0.7-0.8	SE289121.009	%	70 - 130%	87
	BH209-0.2-0.3	SE289121.010	%	70 - 130%	72
	BH209-0.8-0.9	SE289121.011	%	70 - 130%	67

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.

PCBs in Soil Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH202_0.2-0.3	SE289121.001	%	60 - 130%	96
	BH203-0.2-0.3	SE289121.002	%	60 - 130%	98
	BH204-0.15-0.2	SE289121.003	%	60 - 130%	97
	BH205-0.2-0.3	SE289121.005	%	60 - 130%	100
	BH206-0.15-0.2	SE289121.007	%	60 - 130%	97
	BH207-0.2-0.3	SE289121.008	%	60 - 130%	92
	BH209-0.2-0.3	SE289121.010	%	60 - 130%	94

VOC's In Soil Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH202_0.2-0.3	SE289121.001	%	60 - 130%	83
	BH203-0.2-0.3	SE289121.002	%	60 - 130%	70
	BH204-0.15-0.2	SE289121.003	%	60 - 130%	78
	BH204-0.5-0.6	SE289121.004	%	60 - 130%	71
	BH205-0.2-0.3	SE289121.005	%	60 - 130%	83
	BH205-0.4-0.5	SE289121.006	%	60 - 130%	79
	BH206-0.15-0.2	SE289121.007	%	60 - 130%	80
	BH207-0.2-0.3	SE289121.008	%	60 - 130%	82
	BH208M-0.7-0.8	SE289121.009	%	60 - 130%	81
	BH209-0.2-0.3	SE289121.010	%	60 - 130%	79
	BH209-0.8-0.9	SE289121.011	%	60 - 130%	68
	QD-20250908	SE289121.012	%	60 - 130%	76
	TS	SE289121.013	%	60 - 130%	89
	TB	SE289121.014	%	60 - 130%	67
d4-1,2-dichloroethane (Surrogate)	BH202_0.2-0.3	SE289121.001	%	60 - 130%	87
	BH203-0.2-0.3	SE289121.002	%	60 - 130%	74
	BH204-0.15-0.2	SE289121.003	%	60 - 130%	82
	BH204-0.5-0.6	SE289121.004	%	60 - 130%	76
	BH205-0.2-0.3	SE289121.005	%	60 - 130%	89
	BH205-0.4-0.5	SE289121.006	%	60 - 130%	84
	BH206-0.15-0.2	SE289121.007	%	60 - 130%	85
	BH207-0.2-0.3	SE289121.008	%	60 - 130%	86
	BH208M-0.7-0.8	SE289121.009	%	60 - 130%	86
	BH209-0.2-0.3	SE289121.010	%	60 - 130%	82
	BH209-0.8-0.9	SE289121.011	%	60 - 130%	74
	QD-20250908	SE289121.012	%	60 - 130%	81
	TS	SE289121.013	%	60 - 130%	90
	TB	SE289121.014	%	60 - 130%	72
d8-toluene (Surrogate)	BH202_0.2-0.3	SE289121.001	%	60 - 130%	86
	BH203-0.2-0.3	SE289121.002	%	60 - 130%	72
	BH204-0.15-0.2	SE289121.003	%	60 - 130%	80
	BH204-0.5-0.6	SE289121.004	%	60 - 130%	73
	BH205-0.2-0.3	SE289121.005	%	60 - 130%	86
	BH205-0.4-0.5	SE289121.006	%	60 - 130%	80
	BH206-0.15-0.2	SE289121.007	%	60 - 130%	83
	BH207-0.2-0.3	SE289121.008	%	60 - 130%	84
	BH208M-0.7-0.8	SE289121.009	%	60 - 130%	83
	BH209-0.2-0.3	SE289121.010	%	60 - 130%	79
	BH209-0.8-0.9	SE289121.011	%	60 - 130%	72
	QD-20250908	SE289121.012	%	60 - 130%	78
	TS	SE289121.013	%	60 - 130%	88
	TB	SE289121.014	%	60 - 130%	70

VOCs in Water Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	R1	SE289121.015	%	40 - 130%	94
d4-1,2-dichloroethane (Surrogate)	R1	SE289121.015	%	40 - 130%	91
d8-toluene (Surrogate)	R1	SE289121.015	%	40 - 130%	84

Volatile Petroleum Hydrocarbons in Soil 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.

Volatiles Petroleum Hydrocarbons in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH202_0.2-0.3	SE289121.001	%	60 - 130%	83
	BH203-0.2-0.3	SE289121.002	%	60 - 130%	70
	BH204-0.15-0.2	SE289121.003	%	60 - 130%	78
	BH204-0.5-0.6	SE289121.004	%	60 - 130%	71
	BH205-0.2-0.3	SE289121.005	%	60 - 130%	83
	BH205-0.4-0.5	SE289121.006	%	60 - 130%	79
	BH206-0.15-0.2	SE289121.007	%	60 - 130%	80
	BH207-0.2-0.3	SE289121.008	%	60 - 130%	82
	BH208M-0.7-0.8	SE289121.009	%	60 - 130%	81
	BH209-0.2-0.3	SE289121.010	%	60 - 130%	79
	BH209-0.8-0.9	SE289121.011	%	60 - 130%	68
	QD-20250908	SE289121.012	%	60 - 130%	76
d4-1,2-dichloroethane (Surrogate)	BH202_0.2-0.3	SE289121.001	%	60 - 130%	87
	BH203-0.2-0.3	SE289121.002	%	60 - 130%	74
	BH204-0.15-0.2	SE289121.003	%	60 - 130%	82
	BH204-0.5-0.6	SE289121.004	%	60 - 130%	76
	BH205-0.2-0.3	SE289121.005	%	60 - 130%	89
	BH205-0.4-0.5	SE289121.006	%	60 - 130%	84
	BH206-0.15-0.2	SE289121.007	%	60 - 130%	85
	BH207-0.2-0.3	SE289121.008	%	60 - 130%	86
	BH208M-0.7-0.8	SE289121.009	%	60 - 130%	86
	BH209-0.2-0.3	SE289121.010	%	60 - 130%	82
	BH209-0.8-0.9	SE289121.011	%	60 - 130%	74
	QD-20250908	SE289121.012	%	60 - 130%	81
d8-toluene (Surrogate)	BH202_0.2-0.3	SE289121.001	%	60 - 130%	86
	BH203-0.2-0.3	SE289121.002	%	60 - 130%	72
	BH204-0.15-0.2	SE289121.003	%	60 - 130%	80
	BH204-0.5-0.6	SE289121.004	%	60 - 130%	73
	BH205-0.2-0.3	SE289121.005	%	60 - 130%	86
	BH205-0.4-0.5	SE289121.006	%	60 - 130%	80
	BH206-0.15-0.2	SE289121.007	%	60 - 130%	83
	BH207-0.2-0.3	SE289121.008	%	60 - 130%	84
	BH208M-0.7-0.8	SE289121.009	%	60 - 130%	83
	BH209-0.2-0.3	SE289121.010	%	60 - 130%	79
	BH209-0.8-0.9	SE289121.011	%	60 - 130%	72
	QD-20250908	SE289121.012	%	60 - 130%	78

Volatiles Petroleum Hydrocarbons in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	R1	SE289121.015	%	40 - 130%	94
d4-1,2-dichloroethane (Surrogate)	R1	SE289121.015	%	60 - 130%	91
d8-toluene (Surrogate)	R1	SE289121.015	%	40 - 130%	84

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury (dissolved) in Water

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

Sample Number	Parameter	Units	LOR	Result
LB360340.001	Mercury, Hg	mg/L	0.0001	<0.0001

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result
LB360952.001	Mercury	mg/kg	0.05	<0.05
LB360953.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB360318.001	Alpha BHC	mg/kg	0.1	<0.1
	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
	Beta BHC	mg/kg	0.1	<0.1
	Lindane (gamma BHC)	mg/kg	0.1	<0.1
	Delta BHC	mg/kg	0.1	<0.1
	Heptachlor	mg/kg	0.1	<0.1
	Aldrin	mg/kg	0.1	<0.1
	Heptachlor epoxide	mg/kg	0.1	<0.1
	Gamma Chlordane	mg/kg	0.1	<0.1
	Alpha Chlordane	mg/kg	0.1	<0.1
	Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1
	Alpha Endosulfan	mg/kg	0.1	<0.1
	p,p'-DDE	mg/kg	0.1	<0.1
	Dieldrin	mg/kg	0.1	<0.1
	Endrin	mg/kg	0.1	<0.1
	Beta Endosulfan	mg/kg	0.1	<0.1
	p,p'-DDD	mg/kg	0.1	<0.1
	Endrin aldehyde	mg/kg	0.1	<0.1
	Endosulfan sulphate	mg/kg	0.1	<0.1
	p,p'-DDT	mg/kg	0.1	<0.1
	Endrin ketone	mg/kg	0.1	<0.1
	Methoxychlor	mg/kg	0.1	<0.1
	Mirex	mg/kg	0.1	<0.1
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	98

OP Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB360318.001	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.1
	Bromophos Ethyl	mg/kg	0.2	<0.1
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.1
	Diazinon (Dimpylate)	mg/kg	0.5	<0.1
	Dichlorvos	mg/kg	0.5	<0.1
	Dimethoate	mg/kg	0.5	<0.1
	Ethion	mg/kg	0.2	<0.1
	Fenitrothion	mg/kg	0.2	<0.1
	Malathion	mg/kg	0.2	<0.1
	Methidathion	mg/kg	0.5	<0.1
	Parathion-ethyl (Parathion)	mg/kg	0.2	<0.1
	2-fluorobiphenyl (Surrogate)	%	-	97
	d14-p-terphenyl (Surrogate)	%	-	102
Surrogates				

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB360318.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Sample Number	Parameter	Units	LOR	Result
LB360318.001	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1	<0.1
	Total PAH (18)	mg/kg	0.8	<0.1
	Surrogates			
	d5-nitrobenzene (Surrogate)	%	-	90
	2-fluorobiphenyl (Surrogate)	%	-	97
	d14-p-terphenyl (Surrogate)	%	-	102

PCBs in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB360318.001	Arochlor 1016	mg/kg	0.1	<0.1
	Arochlor 1221	mg/kg	0.1	<0.1
	Arochlor 1232	mg/kg	0.1	<0.1
	Arochlor 1242	mg/kg	0.1	<0.1
	Arochlor 1248	mg/kg	0.1	<0.1
	Arochlor 1254	mg/kg	0.1	<0.1
	Arochlor 1260	mg/kg	0.1	<0.1
	Total PCBs	mg/kg	0.1	<0.1
	Surrogates			
	TCMX (Surrogate)	%	-	98

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB360362.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0
LB360950.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0

Trace Metals (Dissolved) in Water by ICPMS

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

Sample Number	Parameter	Units	LOR	Result
LB360486.001	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

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB360318.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR
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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.

TRH (Total Recoverable Hydrocarbons) in Water (continued)

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

Sample Number	Parameter	Units	LOR	Result
LB360325.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB360358.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	88
		d8-toluene (Surrogate)	%	-	85
		Bromofluorobenzene (Surrogate)	%	-	83
	Totals	Total BTEX*	mg/kg	0.6	<0.6

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result
LB360594.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	90
		d8-toluene (Surrogate)	%	-	82
		Bromofluorobenzene (Surrogate)	%	-	92

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB360358.001	TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-

Volatile Petroleum Hydrocarbons in Water

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

Sample Number	Parameter	Units	LOR	Result	
LB360594.001	TRH C6-C9	µg/L	40	<40	
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	90
		d8-toluene (Surrogate)	%	-	82
		Bromofluorobenzene (Surrogate)	%	-	92

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

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.009	LB360952.013	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE289121.012	LB360953.007	Mercury	mg/kg	0.05	<0.05	<0.05	200	0

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289077.009	LB360390.011	% Moisture	%w/w	1	9.0	8.9	41	1
SE289121.007	LB360390.022	% Moisture	%w/w	1	3.5	4.2	56	18
SE289121.012	LB360390.028	% Moisture	%w/w	1	3.7	2.9	61	25

OC Pesticides in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.003	LB360318.026	Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin	mg/kg	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
		Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
		Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
SE289121.010	LB360318.027	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	-	0.49	0.50	30	2
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin	mg/kg	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0

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

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.010	LB360318.027	Mirex	mg/kg	0.1	<0.1	<0.1	200	0
		Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
		Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.47	0.48	30	1

OP Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.003	LB360318.026	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.1	200	0
		Bromophos Ethyl	mg/kg	0.2	<0.2	<0.1	200	0
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.1	200	0
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.1	200	0
		Dichlorvos	mg/kg	0.5	<0.5	<0.1	200	0
		Dimethoate	mg/kg	0.5	<0.5	<0.1	200	0
		Ethion	mg/kg	0.2	<0.2	<0.1	200	0
		Fenitrothion	mg/kg	0.2	<0.2	<0.1	200	0
		Malathion	mg/kg	0.2	<0.2	<0.1	200	0
		Methodathion	mg/kg	0.5	<0.5	<0.1	200	0
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.1	200	0
		Total OP Pesticides*	mg/kg	1.7	<1.7	<0.1	200	0
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE289121.010	LB360318.027	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.1	200	0
		Bromophos Ethyl	mg/kg	0.2	<0.2	<0.1	200	0
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.1	200	0
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.1	200	0
		Dichlorvos	mg/kg	0.5	<0.5	<0.1	200	0
		Dimethoate	mg/kg	0.5	<0.5	<0.1	200	0
		Ethion	mg/kg	0.2	<0.2	<0.1	200	0
		Fenitrothion	mg/kg	0.2	<0.2	<0.1	200	0
		Malathion	mg/kg	0.2	<0.2	<0.1	200	0
		Methodathion	mg/kg	0.5	<0.5	<0.1	200	0
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.1	200	0
		Total OP Pesticides*	mg/kg	1.7	<1.7	<0.1	200	0
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	3
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	2

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.003	LB360318.026	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
		Total PAH (18)	mg/kg	0.8	<0.8	<0.1	200	0
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.43	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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.003	LB360318.026	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.49	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.47	30	1
SE289121.010	LB360318.027		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.1	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.35	30	3
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.46	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.45	30	2

PCBs in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.003	LB360318.026	Arochlor 1016	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1221	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1232	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1242	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1248	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1254	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1260	mg/kg	0.1	<0.1	<0.1	200	0
		Total PCBs	mg/kg	0.1	<0.1	<0.1	200	0
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.49	0.50	30	2
SE289121.010	LB360318.027	Arochlor 1016	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1221	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1232	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1242	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1248	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1254	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1260	mg/kg	0.1	<0.1	<0.1	200	0
		Total PCBs	mg/kg	0.1	<0.1	<0.1	200	0
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.47	0.48	30	1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-ENVJAN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.009	LB360362.013	Arsenic, As	mg/kg	1	1	1	111	19
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	15	14	33	5
		Copper, Cu	mg/kg	0.5	<0.5	<0.5	200	0
		Nickel, Ni	mg/kg	0.5	1.0	1.1	76	7
		Lead, Pb	mg/kg	1	10	27	35	96 @
		Zinc, Zn	mg/kg	2	6.9	6.4	60	8
SE289121.012	LB360950.007	Arsenic, As	mg/kg	1	<1	<1	150	0
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	0.5	<0.5	133	0
		Copper, Cu	mg/kg	0.5	90	79	31	12

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 Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.012	LB360950.007	Nickel, Ni	mg/kg	0.5	2.6	2.6	49	1
		Lead, Pb	mg/kg	1	1	2	86	39
		Zinc, Zn	mg/kg	2	7.7	7.4	56	4

Trace Metals (Dissolved) in Water by ICPMS

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.015	LB360486.010	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 Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.003	LB360318.026	TRH C10-C14	mg/kg	20	<20	<20	200	0
		TRH C15-C28	mg/kg	45	<45	<45	200	0
		TRH C29-C36	mg/kg	45	<45	<45	200	0
		TRH C37-C40	mg/kg	100	<100	<100	200	0
		TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH >C10-C16	mg/kg	25	<25	<25	200	0
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
		TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE289121.010	LB360318.027	TRH C10-C14	mg/kg	20	<20	<20	200	0
		TRH C15-C28	mg/kg	45	<45	<45	200	0
		TRH C29-C36	mg/kg	45	<45	<45	200	0
		TRH C37-C40	mg/kg	100	<100	<100	200	0
		TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH >C10-C16	mg/kg	25	<25	<25	200	0
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
		TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0

TRH (Total Recoverable Hydrocarbons) in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288958.002	LB360325.028	TRH C10-C14	µg/L	50	<50	<50	157	0
		TRH C15-C28	µg/L	200	220	<200	126	11
		TRH C29-C36	µg/L	200	<200	<200	200	0
		TRH C37-C40	µg/L	200	<200	<200	200	0
		TRH C10-C40	µg/L	320	340	<320	131	5
		TRH >C10-C16	µg/L	60	<60	<60	200	0
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	200	0
		TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
		TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0
SE289091.001	LB360325.029	TRH C10-C14	µg/L	50	82	85	90	4
		TRH C15-C28	µg/L	200	300	320	95	6
		TRH C29-C36	µg/L	200	<200	<200	200	0
		TRH C37-C40	µg/L	200	<200	<200	200	0
		TRH C10-C40	µg/L	320	<650	460	101	34
		TRH >C10-C16	µg/L	60	120	130	78	4
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	120	130	78	4
		TRH >C16-C34 (F3)	µg/L	500	<500	<500	197	0
		TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

VOC's in Soil

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

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

VOC's in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.010	LB360358.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.2	8.0	50	2
			d8-toluene (Surrogate)	mg/kg	-	7.9	7.8	50	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.9	7.6	50	3
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
		SE289121.012	LB360358.021	Monocyclic	Benzene	mg/kg	0.1	<0.1	0.0006619301
Aromatic	Toluene				mg/kg	0.1	<0.1	0.0023732165	200
	Ethylbenzene			mg/kg	0.1	<0.1	0.0004209094	200	0
	m/p-xylene			mg/kg	0.2	<0.2	0.0014336952	200	0
	o-xylene			mg/kg	0.1	<0.1	0.0006978346	200	0
Polycyclic	Naphthalene (VOC)*			mg/kg	0.1	<0.1	0.0021352080	200	0
Surrogates	d4-1,2-dichloroethane (Surrogate)			mg/kg	-	8.1	8.0819377466	50	0
	d8-toluene (Surrogate)			mg/kg	-	7.8	7.7783409062	50	1
	Bromofluorobenzene (Surrogate)			mg/kg	-	7.6	7.8134783683	50	2
Totals	Total BTEX*			mg/kg	0.6	<0.6	0	200	0
	Total Xylenes*			mg/kg	0.3	<0.3	0.0021315299	200	0

VOCs in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.015	LB360594.022	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
			Aromatic	Toluene	µg/L	0.5	0.8	1.1	81
			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	-	9.1	9.2	30	1
			d8-toluene (Surrogate)	µg/L	-	8.4	8.3	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	9.4	9.0	30	4
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
		SE289201.005	LB360594.025	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5
Aromatic	Toluene				µg/L	0.5	<0.5	<0.5	200
	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	-	8.9	8.9	30	0
	d8-toluene (Surrogate)			µg/L	-	8.5	8.5	30	0
	Bromofluorobenzene (Surrogate)			µg/L	-	9.7	9.4	30	3
Totals	Total BTEX			µg/L	3	<3	<3	200	0

Volatile Petroleum Hydrocarbons in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE289121.010	LB360358.014	TRH C6-C10	mg/kg	25	<25	<25	200	0	
		TRH C6-C9	mg/kg	20	<20	<20	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.2	8.0	50	2
		d8-toluene (Surrogate)	mg/kg	-	7.9	7.8	50	2	
		Bromofluorobenzene (Surrogate)	mg/kg	-	7.9	7.6	50	3	
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
		TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0	
SE289121.012	LB360358.021	TRH C6-C10	mg/kg	25	<25	0	200	0	
		TRH C6-C9	mg/kg	20	<20	0	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.1	8.0819377466	50	0
		d8-toluene (Surrogate)	mg/kg	-	7.8	7.7783409062	50	1	
		Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	7.8134783683	50	2	
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	0.0006619301	200	0
		TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	0	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

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121.015	LB360594.022	TRH C6-C10	µg/L	50	<50	<50	200	0
		TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates						
		d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.1	9.2	30	1
		d8-toluene (Surrogate)	µg/L	-	8.4	8.3	30	1
		Bromofluorobenzene (Surrogate)	µg/L	-	9.4	9.0	30	4
		VPH F Bands						
		Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
		TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

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.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360952.002	Mercury	mg/kg	0.05	0.22	0.2	80 - 120	108
LB360953.002	Mercury	mg/kg	0.05	0.23	0.2	80 - 120	116

OC Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360318.002	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	85
	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	82
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	81
	Dieldrin	mg/kg	0.1	0.2	0.2	60 - 140	119
	Endrin	mg/kg	0.1	0.2	0.2	60 - 140	87
	p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	81
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.43	0.5	40 - 130	87

OP Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360318.002	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.4	2	60 - 140	68
	Diazinon (Dimpylate)	mg/kg	0.5	1.8	2	60 - 140	91
	Dichlorvos	mg/kg	0.5	1.4	2	60 - 140	69
	Ethion	mg/kg	0.2	1.3	2	60 - 140	64
Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	87
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	93

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360318.002	Naphthalene	mg/kg	0.1	4.0	4	60 - 140	99
	Acenaphthylene	mg/kg	0.1	3.9	4	60 - 140	97
	Acenaphthene	mg/kg	0.1	4.0	4	60 - 140	100
	Phenanthrene	mg/kg	0.1	4.3	4	60 - 140	109
	Anthracene	mg/kg	0.1	4.4	4	60 - 140	109
	Fluoranthene	mg/kg	0.1	5.2	4	60 - 140	130
	Pyrene	mg/kg	0.1	5.2	4	60 - 140	129
	Benzo(a)pyrene	mg/kg	0.1	3.7	4	60 - 140	93
	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	82
	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	87
Surrogates	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	93

PCBs in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360318.002	Arochlor 1260	mg/kg	0.1	0.4	0.4	60 - 140	92
Surrogates	TCMX (Surrogate)	mg/kg	-	0.43	0.5	40 - 130	87

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360362.002	Arsenic, As	mg/kg	1	310	318.22	80 - 120	99
	Cadmium, Cd	mg/kg	0.3	4.0	4.81	70 - 130	83
	Chromium, Cr	mg/kg	0.5	35	38.31	80 - 120	92
	Copper, Cu	mg/kg	0.5	300	290	80 - 120	105
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	99
	Lead, Pb	mg/kg	1	91	89.9	80 - 120	101
	Zinc, Zn	mg/kg	2	270	273	80 - 120	98
LB360950.002	Arsenic, As	mg/kg	1	320	318.22	80 - 120	100
	Cadmium, Cd	mg/kg	0.3	3.7	4.81	70 - 130	77
	Chromium, Cr	mg/kg	0.5	36	38.31	80 - 120	93
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	106
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	100
	Lead, Pb	mg/kg	1	91	89.9	80 - 120	102
	Zinc, Zn	mg/kg	2	270	273	80 - 120	98

Trace Metals (Dissolved) in Water by ICPMS

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

Sample Number	Parameter	Units	LOR
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Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

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

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360486.002	Arsenic	µg/L	1	19	20	80 - 120	97
	Cadmium	µg/L	0.1	20	20	80 - 120	98
	Chromium	µg/L	1	20	20	80 - 120	101
	Copper	µg/L	1	20	20	80 - 120	102
	Lead	µg/L	1	19	20	80 - 120	97
	Nickel	µg/L	1	20	20	80 - 120	98
	Zinc	µg/L	5	19	20	80 - 120	95

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360318.002	TRH C10-C14	mg/kg	20	160	200	60 - 140	81
	TRH F Bands TRH >C10-C16	mg/kg	25	160	200	60 - 140	82

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360325.002	TRH C10-C14	µg/L	50	800	1000	60 - 140	80
	TRH F Bands TRH >C10-C16	µg/L	60	800	1000	60 - 140	80

VOC's in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360358.002	Monocyclic Benzene	mg/kg	0.1	2.0	2.2	60 - 140	93
	Aromatic Toluene	mg/kg	0.1	2.0	2.2	60 - 140	91
	Ethylbenzene	mg/kg	0.1	2.0	2.2	60 - 140	91
	m/p-xylene	mg/kg	0.2	4.1	4.4	60 - 140	93
	o-xylene	mg/kg	0.1	2.0	2.2	60 - 140	92

VOCs in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360594.002	Monocyclic Benzene	µg/L	0.5	25	25	60 - 140	99
	Aromatic Toluene	µg/L	0.5	23	25	60 - 140	92
	Ethylbenzene	µg/L	0.5	23	25	60 - 140	91
	m/p-xylene	µg/L	1	44	50	60 - 140	89
	o-xylene	µg/L	0.5	24	25	60 - 140	96

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360358.002	TRH C6-C10	mg/kg	25	31	35.2	60 - 140	87
	TRH C6-C9	mg/kg	20	27	30.8	60 - 140	89

Volatile Petroleum Hydrocarbons in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360594.002	TRH C6-C10	µg/L	50	310	400	60 - 140	76
	TRH C6-C9	µg/L	40	280	350	60 - 140	80

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.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289121.001	LB360952.004	Mercury	mg/kg	0.05	0.22	<0.05	0.2	103
SE289121.010	LB360953.004	Mercury	mg/kg	0.05	0.22	<0.05	0.2	104

OC Pesticides in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%
SE289128.001	LB360318.028	Alpha BHC	mg/kg	0.1	<0.2	-	-
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.2	-	-
		Beta BHC	mg/kg	0.1	<0.2	-	-
		Lindane (gamma BHC)	mg/kg	0.1	<0.2	-	-
		Delta BHC	mg/kg	0.1	<0.2	0.2	100
		Heptachlor	mg/kg	0.1	<0.2	0.2	87
		Aldrin	mg/kg	0.1	<0.2	0.2	111
		Heptachlor epoxide	mg/kg	0.1	<0.2	-	-
		Gamma Chlordane	mg/kg	0.1	<0.2	-	-
		Alpha Chlordane	mg/kg	0.1	<0.2	-	-
		Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.2	-	-
		Alpha Endosulfan	mg/kg	0.1	<0.2	-	-
		p,p'-DDE	mg/kg	0.1	<0.2	-	-
		Dieldrin	mg/kg	0.1	<0.2	0.2	114
		Endrin	mg/kg	0.1	<0.2	0.2	95
		Beta Endosulfan	mg/kg	0.1	<0.2	-	-
		p,p'-DDD	mg/kg	0.1	<0.2	-	-
		Endrin aldehyde	mg/kg	0.1	<0.2	-	-
		Endosulfan sulphate	mg/kg	0.1	<0.2	-	-
		p,p'-DDT	mg/kg	0.1	<0.2	0.2	100
		Endrin ketone	mg/kg	0.1	<0.2	-	-
		Methoxychlor	mg/kg	0.1	<0.2	-	-
		Mirex	mg/kg	0.1	<0.2	-	-
		Total OC Pesticides	mg/kg	0.1	<0.1	-	-
		Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	-	-
		Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	-	-
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.51	-	104	

OP Pesticides in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%
SE289128.001	LB360318.025	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.4	-	-
		Bromophos Ethyl	mg/kg	0.2	<0.4	-	-
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.4	2	82
		Diazinon (Dimpylate)	mg/kg	0.5	<1.0	2	101
		Dichlorvos	mg/kg	0.5	<1.0	2	85
		Dimethoate	mg/kg	0.5	<1.0	-	-
		Ethion	mg/kg	0.2	<0.4	2	84
		Fenitrothion	mg/kg	0.2	<0.4	-	-
		Malathion	mg/kg	0.2	<0.4	-	-
		Methidathion	mg/kg	0.5	<1.0	-	-
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.4	-	-
		Total OP Pesticides*	mg/kg	1.7	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	-
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.6	-	92	

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%
SE289128.001	LB360318.025	Naphthalene	mg/kg	0.1	<0.2	4	98
		2-methylnaphthalene	mg/kg	0.1	<0.2	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.2	-	-
		Acenaphthylene	mg/kg	0.1	<0.2	4	102
		Acenaphthene	mg/kg	0.1	<0.2	4	101
		Fluorene	mg/kg	0.1	<0.2	-	-
		Phenanthrene	mg/kg	0.1	<0.2	4	106
		Anthracene	mg/kg	0.1	<0.2	4	109
		Fluoranthene	mg/kg	0.1	<0.2	4	116

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.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%
SE289128.001	LB360318.025	Pyrene	mg/kg	0.1	<0.2	4	114
		Benzo(a)anthracene	mg/kg	0.1	<0.2	-	-
		Chrysene	mg/kg	0.1	<0.2	-	-
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.2	-	-
		Benzo(k)fluoranthene	mg/kg	0.1	<0.2	-	-
		Benzo(a)pyrene	mg/kg	0.1	<0.2	4	99
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.2	-	-
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.2	-	-
		Benzo(ghi)perylene	mg/kg	0.1	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	-	-
		Total PAH (18)	mg/kg	0.8	<0.1	-	-
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.56	-	89
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.49	-	88
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.55	-	92

PCBs in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%
SE289128.001	LB360318.028	Arochlor 1016	mg/kg	0.1	<0.2	-	-
		Arochlor 1221	mg/kg	0.1	<0.2	-	-
		Arochlor 1232	mg/kg	0.1	<0.2	-	-
		Arochlor 1242	mg/kg	0.1	<0.2	-	-
		Arochlor 1248	mg/kg	0.1	<0.2	-	-
		Arochlor 1254	mg/kg	0.1	<0.2	-	-
		Arochlor 1260	mg/kg	0.1	<0.2	0.4	115
		Total PCBs	mg/kg	0.1	<0.1	-	-
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.53	-	104

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289121.001	LB360362.004	Arsenic, As	mg/kg	1	44	1	50	86
		Cadmium, Cd	mg/kg	0.3	40	<0.3	50	81
		Chromium, Cr	mg/kg	0.5	44	<0.5	50	88
		Copper, Cu	mg/kg	0.5	160	100	50	118
		Nickel, Ni	mg/kg	0.5	47	3.6	50	87
		Lead, Pb	mg/kg	1	43	1	50	85
		Zinc, Zn	mg/kg	2	54	8.7	50	90
SE289121.010	LB360950.004	Arsenic, As	mg/kg	1	46	1	50	89
		Cadmium, Cd	mg/kg	0.3	42	<0.3	50	84
		Chromium, Cr	mg/kg	0.5	45	0.7	50	88
		Copper, Cu	mg/kg	0.5	150	120	50	56 Ⓢ
		Nickel, Ni	mg/kg	0.5	47	3.0	50	88
		Lead, Pb	mg/kg	1	46	4	50	84
		Zinc, Zn	mg/kg	2	52	11	50	81

TRH (Total Recoverable Hydrocarbons) in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289128.001	LB360318.025	TRH C10-C14	mg/kg	20	180	<40	200	88
		TRH C15-C28	mg/kg	45	<45	<90	-	-
		TRH C29-C36	mg/kg	45	<45	<90	-	-
		TRH C37-C40	mg/kg	100	<100	<200	-	-
		TRH C10-C36 Total	mg/kg	110	180	<110	-	-
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
	TRH F Bands	TRH >C10-C16	mg/kg	25	180	<50	200	88
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	180	<50	-	-
		TRH >C16-C34 (F3)	mg/kg	90	<90	<180	-	-
		TRH >C34-C40 (F4)	mg/kg	120	<120	<240	-	-

VOC's in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR
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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.

VOC's in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289121.001	LB360358.004	Monocyclic	Benzene	mg/kg	0.1	2.5	<0.1	2.2	114
			Aromatic	Toluene	mg/kg	0.1	2.4	<0.1	2.2
			Ethylbenzene	mg/kg	0.1	2.4	<0.1	2.2	109
			m/p-xylene	mg/kg	0.2	4.9	<0.2	4.4	110
			o-xylene	mg/kg	0.1	2.4	<0.1	2.2	110
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.5	8.7	-	75
			d8-toluene (Surrogate)	mg/kg	-	7.3	8.6	-	73
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	8.3	-	76
		Totals	Total BTEX*	mg/kg	0.6	15	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	7.3	<0.3	-	-

VOCs in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%	
SE289211.001	LB360594.024	Monocyclic	Benzene	µg/L	0.5	<0.5	25	98	
			Aromatic	Toluene	µg/L	0.5	<0.5	25	92
			Ethylbenzene	µg/L	0.5	<0.5	25	91	
			m/p-xylene	µg/L	1	<1	50	89	
			o-xylene	µg/L	0.5	<0.5	25	95	
			Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)		µg/L	-	9.2	-	104
			d8-toluene (Surrogate)		µg/L	-	8.4	-	94
			Bromofluorobenzene (Surrogate)		µg/L	-	9.7	-	91
		Totals	Total BTEX		µg/L	3	<3	-	-

Volatile Petroleum Hydrocarbons in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE289121.001	LB360358.004	TRH C6-C10	mg/kg	25	37	<25	35.2	104	
		TRH C6-C9	mg/kg	20	33	<20	30.8	107	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.5	8.7	-	75
			d8-toluene (Surrogate)	mg/kg	-	7.3	8.6	-	73
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	8.3	-	76
		VPH F	Benzene (F0)	mg/kg	0.1	2.5	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	-	-

Volatile Petroleum Hydrocarbons in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%	
SE289211.001	LB360594.024	TRH C6-C10	µg/L	50	<50	400	76	
		TRH C6-C9	µg/L	40	<40	350	80	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.2	-	104
			d8-toluene (Surrogate)	µg/L	-	8.4	-	94
			Bromofluorobenzene (Surrogate)	µg/L	-	9.7	-	91
		VPH F	Benzene (F0)	µg/L	0.5	<0.5	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	-	-

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

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here : <https://www.sgs.com/en-au/industry/environmental-health-and-safety>

- * NATA accreditation does not cover the performance of this service .
- ** Indicative data, theoretical holding time exceeded.
- *** Indicates that both * and ** apply.
- Sample not analysed for this analyte.
- IS Insufficient sample for analysis.
- LNR Sample listed, but not received.
- LOR Limit of reporting.
- QFH QC result is above the upper tolerance.
- QFL QC result is below the lower tolerance.
- NA Not Applicable
- ① At least 2 of 3 surrogates are within acceptance criteria.
- ② RPD failed acceptance criteria due to sample heterogeneity.
- ③ Results less than 5 times LOR preclude acceptance criteria for RPD.
- ④ Recovery failed acceptance criteria due to matrix interference.
- ⑤ Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
- ⑥ LOR was raised due to sample matrix interference.
- ⑦ LOR was raised due to dilution of significantly high concentration of analyte in sample.
- ⑧ Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
- ⑨ Recovery failed acceptance criteria due to sample heterogeneity.
- ⑩ LOR was raised due to high conductivity of the sample (required dilution).
- † Refer to relevant report comments for further information.

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STATEMENT OF QA/QC PERFORMANCE

SE289298 R0

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Order Number **E25559**
Samples **3**

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SGS Reference **SE289298 R0**
Date Received **11 Sep 2025**
Date Reported **18 Sep 2025**

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.

This QA/QC Statement must be read in conjunction with the referenced Analytical Report.

The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Duplicate	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	10 items
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	3 items

SAMPLE SUMMARY

Sample counts by matrix	3 Soil	Type of documentation received	COC
Date documentation received	11/9/2025	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	8.3°C
Sample container provider	SGS	Turnaround time requested	Standard
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

SE289298 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M-0.8-1.0	SE289298.001	LB360769	09 Sep 2025	11 Sep 2025	07 Oct 2025	12 Sep 2025	07 Oct 2025	17 Sep 2025

Moisture Content

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M-0.8-1.0	SE289298.001	LB360761	09 Sep 2025	11 Sep 2025	23 Sep 2025	12 Sep 2025	17 Sep 2025	16 Sep 2025
TB2	SE289298.003	LB360761	09 Sep 2025	11 Sep 2025	23 Sep 2025	12 Sep 2025	17 Sep 2025	16 Sep 2025

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M-0.8-1.0	SE289298.001	LB360754	09 Sep 2025	11 Sep 2025	23 Sep 2025	12 Sep 2025	22 Oct 2025	17 Sep 2025

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M-0.8-1.0	SE289298.001	LB360765	09 Sep 2025	11 Sep 2025	08 Mar 2026	12 Sep 2025	08 Mar 2026	17 Sep 2025

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M-0.8-1.0	SE289298.001	LB360754	09 Sep 2025	11 Sep 2025	23 Sep 2025	12 Sep 2025	22 Oct 2025	17 Sep 2025

VOC's in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M-0.8-1.0	SE289298.001	LB360756	09 Sep 2025	11 Sep 2025	23 Sep 2025	12 Sep 2025	23 Sep 2025	17 Sep 2025
TS2	SE289298.002	LB360756	09 Sep 2025	11 Sep 2025	23 Sep 2025	12 Sep 2025	23 Sep 2025	17 Sep 2025
TB2	SE289298.003	LB360756	09 Sep 2025	11 Sep 2025	23 Sep 2025	12 Sep 2025	23 Sep 2025	17 Sep 2025

Volatile Petroleum Hydrocarbons in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M-0.8-1.0	SE289298.001	LB360756	09 Sep 2025	11 Sep 2025	23 Sep 2025	12 Sep 2025	23 Sep 2025	17 Sep 2025
TS2	SE289298.002	LB360756	09 Sep 2025	11 Sep 2025	23 Sep 2025	12 Sep 2025	23 Sep 2025	17 Sep 2025
TB2	SE289298.003	LB360756	09 Sep 2025	11 Sep 2025	23 Sep 2025	12 Sep 2025	23 Sep 2025	17 Sep 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH201M-0.8-1.0	SE289298.001	%	70 - 130%	104
d14-p-terphenyl (Surrogate)	BH201M-0.8-1.0	SE289298.001	%	70 - 130%	115
d5-nitrobenzene (Surrogate)	BH201M-0.8-1.0	SE289298.001	%	70 - 130%	120

VOC's in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH201M-0.8-1.0	SE289298.001	%	60 - 130%	94
	TS2	SE289298.002	%	60 - 130%	88
	TB2	SE289298.003	%	60 - 130%	89
d4-1,2-dichloroethane (Surrogate)	BH201M-0.8-1.0	SE289298.001	%	60 - 130%	102
	TS2	SE289298.002	%	60 - 130%	91
	TB2	SE289298.003	%	60 - 130%	78
d8-toluene (Surrogate)	BH201M-0.8-1.0	SE289298.001	%	60 - 130%	95
	TS2	SE289298.002	%	60 - 130%	88
	TB2	SE289298.003	%	60 - 130%	94

Volatile Petroleum Hydrocarbons in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH201M-0.8-1.0	SE289298.001	%	60 - 130%	94
d4-1,2-dichloroethane (Surrogate)	BH201M-0.8-1.0	SE289298.001	%	60 - 130%	102
d8-toluene (Surrogate)	BH201M-0.8-1.0	SE289298.001	%	60 - 130%	95

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result
LB360769.001	Mercury	mg/kg	0.05	<0.05

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB360754.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1
	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1	<0.1
	Total PAH (18)	mg/kg	0.8	<0.8
Surrogates	d5-nitrobenzene (Surrogate)	%	-	110
	2-fluorobiphenyl (Surrogate)	%	-	96
	d14-p-terphenyl (Surrogate)	%	-	108

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB360765.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB360754.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB360756.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	82
		d8-toluene (Surrogate)	%	-	96
		Bromofluorobenzene (Surrogate)	%	-	93
	Totals	Total BTEX*	mg/kg	0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB360756.001	TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-

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

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288749A.004	LB360769.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE289298.001	LB360769.023	Mercury	mg/kg	0.05	0.08	0.10	86	18

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289261.004	LB360761.011	% Moisture	%w/w	1	20.4	20.1	35	1
SE289298.001	LB360761.021	% Moisture	%w/w	1	1.5	1.3	103	14

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288749A.004	LB360754.014	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	0.2	0.3	68	59
		Anthracene	mg/kg	0.1	<0.1	<0.1	196	0
		Fluoranthene	mg/kg	0.1	0.5	0.9	44	59 @
		Pyrene	mg/kg	0.1	0.5	0.9	45	58 @
		Benzo(a)anthracene	mg/kg	0.1	0.2	0.3	71	57
		Chrysene	mg/kg	0.1	0.2	0.3	66	47
		Benzo(b&i)fluoranthene	mg/kg	0.1	0.3	0.4	59	45
		Benzo(k)fluoranthene	mg/kg	0.1	0.1	0.2	93	53
		Benzo(a)pyrene	mg/kg	0.1	0.2	0.4	65	47
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.2	0.3	73	41
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	0.2	0.3	71	27
		Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	0.3	0.5	62	47
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	0.3	0.5	56	42
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	0.4	0.6	71	38
		Total PAH (18)	mg/kg	0.8	2.5	4.3	33	51 @
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.6	30	5
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	6
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	9
SE289263.005	LB360754.025	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(b&i)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
		Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.6	30	3
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2

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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]JAN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289263.005	LB360754.025	Surrogates	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE289298.001	LB360754.023		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	0.3	0.2	69	60
			Anthracene	mg/kg	0.1	<0.1	<0.1	171	0
			Fluoranthene	mg/kg	0.1	0.6	0.3	53	82 @
			Pyrene	mg/kg	0.1	0.6	0.3	53	83 @
			Benzo(a)anthracene	mg/kg	0.1	0.3	0.1	80	81 @
			Chrysene	mg/kg	0.1	0.3	0.1	82	80
			Benzo(b&j)fluoranthene	mg/kg	0.1	0.3	0.1	74	88 @
			Benzo(k)fluoranthene	mg/kg	0.1	0.1	<0.1	128	34
			Benzo(a)pyrene	mg/kg	0.1	0.3	0.1	74	87 @
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.2	<0.1	104	62
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	0.2	<0.1	105	63
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	0.4	<0.2	81	71
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	0.5	0.2	69	78 @
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	0.5	<0.3	86	54
			Total PAH (18)	mg/kg	0.8	3.3	1.2	34	94 @
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.6	30	4
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.6	0.6	30	4

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]JAN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288749A.004	LB360765.014	Arsenic, As	mg/kg	1	5	4	51	21
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	20	11	33	62 @
		Copper, Cu	mg/kg	0.5	8.6	7.8	36	10
		Nickel, Ni	mg/kg	0.5	3.2	3.2	46	0
		Lead, Pb	mg/kg	1	19	13	36	42 @
		Zinc, Zn	mg/kg	2	38	38	35	1
SE289298.001	LB360765.023	Arsenic, As	mg/kg	1	<1	<1	142	0
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	1.2	1.2	71	4
		Copper, Cu	mg/kg	0.5	1.9	1.7	57	13
		Nickel, Ni	mg/kg	0.5	0.6	0.6	117	3
		Lead, Pb	mg/kg	1	10	21	37	73 @
		Zinc, Zn	mg/kg	2	15	13	44	18

TRH (Total Recoverable Hydrocarbons) in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288749A.004	LB360754.014	TRH C10-C14	mg/kg	20	<20	<20	200	0
		TRH C15-C28	mg/kg	45	<45	<45	200	0
		TRH C29-C36	mg/kg	45	<45	<45	200	0
		TRH C37-C40	mg/kg	100	<100	<100	200	0
		TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH >C10-C16	mg/kg	25	<25	<25	200	0
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
		TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE289263.005	LB360754.025	TRH C10-C14	mg/kg	20	<20	<20	200	0
		TRH C15-C28	mg/kg	45	<45	<45	200	0
		TRH C29-C36	mg/kg	45	<45	<45	200	0
		TRH C37-C40	mg/kg	100	<100	<100	200	0
		TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0

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

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289263.005	LB360754.025	TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE289298.001	LB360754.023		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0

VOC's in Soil

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289263.005	LB360756.034	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.7	8.6	50	0
			d8-toluene (Surrogate)	mg/kg	-	10.2	8.4	50	19
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.6	8.6	50	0
			Totals	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE289298.001	LB360756.027	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.2	10.1	50	2
			d8-toluene (Surrogate)	mg/kg	-	9.5	9.3	50	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.4	9.2	50	3
			Totals	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289263.005	LB360756.034		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.7	8.6	50	0
			d8-toluene (Surrogate)	mg/kg	-	10.2	8.4	50	19
		VPH F Bands	Bromofluorobenzene (Surrogate)	mg/kg	-	8.6	8.6	50	0
			Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
SE289298.001	LB360756.027		TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
			TRH C6-C10	mg/kg	25	<25	<25	200	0
		Surrogates	TRH C6-C9	mg/kg	20	<20	<20	200	0
			d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.2	10.1	50	2
			d8-toluene (Surrogate)	mg/kg	-	9.5	9.3	50	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.4	9.2	50	3
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360769.002	Mercury	mg/kg	0.05	0.20	0.2	80 - 120	98

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360754.002	Naphthalene	mg/kg	0.1	5.3	4	60 - 140	133
	Acenaphthylene	mg/kg	0.1	5.1	4	60 - 140	127
	Acenaphthene	mg/kg	0.1	5.3	4	60 - 140	133
	Phenanthrene	mg/kg	0.1	5.4	4	60 - 140	134
	Anthracene	mg/kg	0.1	5.6	4	60 - 140	139
	Fluoranthene	mg/kg	0.1	5.2	4	60 - 140	130
	Pyrene	mg/kg	0.1	5.3	4	60 - 140	131
	Benzo(a)pyrene	mg/kg	0.1	5.2	4	60 - 140	131
	Surrogates						
	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	109
	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	101
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.6	0.5	70 - 130	112

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360765.002	Arsenic, As	mg/kg	1	330	318.22	80 - 120	103
	Cadmium, Cd	mg/kg	0.3	3.9	4.81	70 - 130	80
	Chromium, Cr	mg/kg	0.5	36	38.31	80 - 120	93
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	107
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	100
	Lead, Pb	mg/kg	1	92	89.9	80 - 120	102
	Zinc, Zn	mg/kg	2	280	273	80 - 120	101

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360754.002	TRH C10-C14	mg/kg	20	180	200	60 - 140	91
	TRH F Bands	mg/kg	25	180	200	60 - 140	91

VOC's in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360756.002	Monocyclic						
	Benzene	mg/kg	0.1	1.9	2.2	60 - 140	87
	Aromatic						
	Toluene	mg/kg	0.1	1.8	2.2	60 - 140	81
	Ethylbenzene	mg/kg	0.1	1.8	2.2	60 - 140	84
	m/p-xylene	mg/kg	0.2	3.6	4.4	60 - 140	82
	o-xylene	mg/kg	0.1	1.8	2.2	60 - 140	82

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB360756.002	TRH C6-C10	mg/kg	25	31	35.2	60 - 140	88
	TRH C6-C9	mg/kg	20	28	30.8	60 - 140	91

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.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289263.001	LB360769.004	Mercury	mg/kg	0.05	0.22	<0.05	0.2	90

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289263.001	LB360754.004	Naphthalene	mg/kg	0.1	5.4	<0.1	4	135
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Acenaphthylene	mg/kg	0.1	5.3	<0.1	4	133
		Acenaphthene	mg/kg	0.1	5.4	<0.1	4	136
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	5.2	<0.1	4	130
		Anthracene	mg/kg	0.1	5.6	<0.1	4	139
		Fluoranthene	mg/kg	0.1	5.2	<0.1	4	131
		Pyrene	mg/kg	0.1	5.3	<0.1	4	133
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(a)pyrene	mg/kg	0.1	5.3	<0.1	4	131
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	5.3	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	5.3	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	5.4	<0.3	-	-
		Total PAH (18)	mg/kg	0.8	43	<0.8	-	-
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.6	-	115
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	108
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.6	0.7	-	113

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289263.001	LB360765.004	Arsenic, As	mg/kg	1	48	1	50	94
		Cadmium, Cd	mg/kg	0.3	45	<0.3	50	91
		Chromium, Cr	mg/kg	0.5	49	0.8	50	96
		Copper, Cu	mg/kg	0.5	52	3.2	50	98
		Nickel, Ni	mg/kg	0.5	49	<0.5	50	97
		Lead, Pb	mg/kg	1	57	11	50	92
		Zinc, Zn	mg/kg	2	54	6.1	50	96

TRH (Total Recoverable Hydrocarbons) in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289263.001	LB360754.004	TRH C10-C14	mg/kg	20	210	<20	200	105
		TRH C15-C28	mg/kg	45	<45	<45	-	-
		TRH C29-C36	mg/kg	45	<45	<45	-	-
		TRH C37-C40	mg/kg	100	<100	<100	-	-
		TRH C10-C36 Total	mg/kg	110	210	<110	-	-
		TRH >C10-C40 Total (F bands)	mg/kg	210	210	<210	-	-
	TRH F Bands	TRH >C10-C16	mg/kg	25	210	<25	200	105
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	210	<25	-	-
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	-	-
		TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-

VOC's in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE289263.001	LB360756.004	Monocyclic	Benzene	mg/kg	0.1	2.1	<0.1	2.2	96
		Aromatic	Toluene	mg/kg	0.1	2.0	<0.1	2.2	91
			Ethylbenzene	mg/kg	0.1	2.1	<0.1	2.2	94
			m/p-xylene	mg/kg	0.2	4.1	<0.2	4.4	92
			o-xylene	mg/kg	0.1	2.1	<0.1	2.2	94

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.

VOC's in Soil (continued)

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289263.001	LB360756.004	Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.5	7.1	75
			d8-toluene (Surrogate)	mg/kg	-	8.3	8.1	83
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.1	8.1	81
		Totals	Total BTEX*	mg/kg	0.6	12	<0.6	-
			Total Xylenes*	mg/kg	0.3	6.2	<0.3	-

Volatile Petroleum Hydrocarbons in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289263.001	LB360756.005		TRH C6-C10	mg/kg	25	36	<25	35.2
			TRH C6-C9	mg/kg	20	32	<20	30.8
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.5	7.1	75
			d8-toluene (Surrogate)	mg/kg	-	8.3	8.1	83
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.1	8.1	81
		VPH F	Benzene (F0)	mg/kg	0.1	2.1	<0.1	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	-



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

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times SDL / Mean + LR$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the

QC Sample	Sample Number	Parameter	Units	LOR
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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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STATEMENT OF QA/QC PERFORMANCE

SE289532 R0

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Order Number **E25559**
Samples **6**

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SGS Reference **SE289532 R0**
Date Received **16 Sep 2025**
Date Reported **23 Sep 2025**

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.

This QA/QC Statement must be read in conjunction with the referenced Analytical Report.

The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Type of documentation received	COC	Date documentation received	16/9/2025
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	17.6°C	Sample container provider	SGS
Turnaround time requested	Standard	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

SE289532 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Alkalinity

Method: ME-(AU)-[ENV]JAN135

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB361350	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	17 Sep 2025

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]JAN291

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB361138	16 Sep 2025	16 Sep 2025	14 Oct 2025	16 Sep 2025	14 Oct 2025	17 Sep 2025

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]JAN245

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB361441	16 Sep 2025	16 Sep 2025	14 Oct 2025	18 Sep 2025	14 Oct 2025	22 Sep 2025

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]JAN106

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361147	16 Sep 2025	16 Sep 2025	14 Oct 2025	16 Sep 2025	14 Oct 2025	16 Sep 2025
BH208M	SE289532.002	LB361147	16 Sep 2025	16 Sep 2025	14 Oct 2025	16 Sep 2025	14 Oct 2025	16 Sep 2025

Dissolved Oxygen by Membrane Electrode

Method: ME-(AU)-[ENV]JAN176

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB361149	16 Sep 2025	16 Sep 2025	17 Sep 2025	16 Sep 2025	17 Sep 2025	16 Sep 2025

E. coli, Total and Faecal (Thermotolerant) coliforms in Water (MPN)

Method: ME-(AU)-[ENV]JAN735

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB362103	16 Sep 2025	16 Sep 2025	17 Sep 2025	17 Sep 2025	20 Sep 2025	17 Sep 2025

Enterococci in Water

Method: ME-(AU)-[ENV]JAN705

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB362103	16 Sep 2025	16 Sep 2025	17 Sep 2025	17 Sep 2025	20 Sep 2025	17 Sep 2025

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]JAN278

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB361138	16 Sep 2025	16 Sep 2025	14 Oct 2025	16 Sep 2025	14 Oct 2025	17 Sep 2025

Forms of Carbon

Method: ME-(AU)-[ENV]JAN190

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB361442	16 Sep 2025	16 Sep 2025	23 Sep 2025	18 Sep 2025	23 Sep 2025	19 Sep 2025

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]JAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	23 Sep 2025
BH208M	SE289532.002	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	23 Sep 2025
QD_20250916	SE289532.003	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	23 Sep 2025
R1-20250916	SE289532.006	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	23 Sep 2025

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]JAN311(Perth)/JAN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361798	16 Sep 2025	16 Sep 2025	14 Oct 2025	23 Sep 2025	14 Oct 2025	23 Sep 2025
BH208M	SE289532.002	LB361798	16 Sep 2025	16 Sep 2025	14 Oct 2025	23 Sep 2025	14 Oct 2025	23 Sep 2025
QD_20250916	SE289532.003	LB361798	16 Sep 2025	16 Sep 2025	14 Oct 2025	23 Sep 2025	14 Oct 2025	23 Sep 2025
R1-20250916	SE289532.006	LB361798	16 Sep 2025	16 Sep 2025	14 Oct 2025	23 Sep 2025	14 Oct 2025	23 Sep 2025

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]JAN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361611	16 Sep 2025	16 Sep 2025	15 Mar 2026	19 Sep 2025	15 Mar 2026	22 Sep 2025
BH208M	SE289532.002	LB361611	16 Sep 2025	16 Sep 2025	15 Mar 2026	19 Sep 2025	15 Mar 2026	22 Sep 2025

Nitrite in Water

Method: ME-(AU)-[ENV]JAN277

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB361138	16 Sep 2025	16 Sep 2025	20 Sep 2025	16 Sep 2025	20 Sep 2025	17 Sep 2025



HOLDING TIME SUMMARY

SE289532 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

OC Pesticides in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
BH208M	SE289532.002	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
QD_20250916	SE289532.003	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
R1-20250916	SE289532.006	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025

OP Pesticides in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
BH208M	SE289532.002	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
QD_20250916	SE289532.003	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
R1-20250916	SE289532.006	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
BH208M	SE289532.002	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
QD_20250916	SE289532.003	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
R1-20250916	SE289532.006	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025

PCBs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
BH208M	SE289532.002	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
QD_20250916	SE289532.003	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
R1-20250916	SE289532.006	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB361255	16 Sep 2025	16 Sep 2025	14 Oct 2025	17 Sep 2025	15 Oct 2025	18 Sep 2025

pH in water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361147	16 Sep 2025	16 Sep 2025	17 Sep 2025	16 Sep 2025	17 Sep 2025	16 Sep 2025
BH208M	SE289532.002	LB361147	16 Sep 2025	16 Sep 2025	17 Sep 2025	16 Sep 2025	17 Sep 2025	16 Sep 2025

Redox Potential (Eh) in water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB361150	16 Sep 2025	16 Sep 2025	17 Sep 2025	16 Sep 2025	17 Sep 2025	16 Sep 2025

TKN Kjeldahl Digestion by Discrete Analyser

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB361588	16 Sep 2025	16 Sep 2025	14 Oct 2025	18 Sep 2025	14 Oct 2025	22 Sep 2025

Total and Volatile Suspended Solids (TSS / VSS)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH208M	SE289532.002	LB361261	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	24 Sep 2025	17 Sep 2025

Total Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN077/AN287

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361447	16 Sep 2025	16 Sep 2025	30 Sep 2025	18 Sep 2025	30 Sep 2025	19 Sep 2025

Total Dissolved Solids (TDS) in water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361560	16 Sep 2025	16 Sep 2025	23 Sep 2025	18 Sep 2025	23 Sep 2025	19 Sep 2025
BH208M	SE289532.002	LB361560	16 Sep 2025	16 Sep 2025	23 Sep 2025	18 Sep 2025	23 Sep 2025	19 Sep 2025

Total Phenolics in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361445	16 Sep 2025	16 Sep 2025	30 Sep 2025	18 Sep 2025	30 Sep 2025	18 Sep 2025
BH208M	SE289532.002	LB361445	16 Sep 2025	16 Sep 2025	30 Sep 2025	18 Sep 2025	30 Sep 2025	18 Sep 2025



HOLDING TIME SUMMARY

SE289532 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

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
BH208M	SE289532.002	LB361588	16 Sep 2025	16 Sep 2025	14 Oct 2025	18 Sep 2025	14 Oct 2025	19 Sep 2025

Trace Metals (Dissolved) in Water by ICPMS

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361843	16 Sep 2025	16 Sep 2025	15 Mar 2026	22 Sep 2025	15 Mar 2026	23 Sep 2025
BH208M	SE289532.002	LB361843	16 Sep 2025	16 Sep 2025	15 Mar 2026	22 Sep 2025	15 Mar 2026	23 Sep 2025
QD_20250916	SE289532.003	LB361843	16 Sep 2025	16 Sep 2025	15 Mar 2026	22 Sep 2025	15 Mar 2026	23 Sep 2025
R1-20250916	SE289532.006	LB361843	16 Sep 2025	16 Sep 2025	15 Mar 2026	22 Sep 2025	15 Mar 2026	23 Sep 2025

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
BH208M	SE289532.002	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
QD_20250916	SE289532.003	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025
R1-20250916	SE289532.006	LB361226	16 Sep 2025	16 Sep 2025	23 Sep 2025	17 Sep 2025	27 Oct 2025	22 Sep 2025

Turbidity

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361148	16 Sep 2025	16 Sep 2025	17 Sep 2025	16 Sep 2025	17 Sep 2025	16 Sep 2025
BH208M	SE289532.002	LB361148	16 Sep 2025	16 Sep 2025	17 Sep 2025	16 Sep 2025	17 Sep 2025	16 Sep 2025

VOCs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361348	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	18 Sep 2025
BH208M	SE289532.002	LB361348	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	18 Sep 2025
QD_20250916	SE289532.003	LB361348	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	18 Sep 2025
TS	SE289532.004	LB361348	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	18 Sep 2025
TB	SE289532.005	LB361348	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	18 Sep 2025
R1-20250916	SE289532.006	LB361348	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	18 Sep 2025

Volatile Petroleum Hydrocarbons in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH201M	SE289532.001	LB361348	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	18 Sep 2025
BH208M	SE289532.002	LB361348	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	19 Sep 2025
QD_20250916	SE289532.003	LB361348	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	18 Sep 2025
TS	SE289532.004	LB361348	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	19 Sep 2025
TB	SE289532.005	LB361348	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	19 Sep 2025
R1-20250916	SE289532.006	LB361348	16 Sep 2025	16 Sep 2025	30 Sep 2025	17 Sep 2025	30 Sep 2025	18 Sep 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason 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)	BH208M	SE289532.002	%	40 - 130%	78
2-fluorobiphenyl (Surrogate)	BH208M	SE289532.002	%	40 - 130%	104
d14-p-terphenyl (Surrogate)	BH208M	SE289532.002	%	40 - 130%	116
d5-nitrobenzene (Surrogate)	BH208M	SE289532.002	%	40 - 130%	112
d5-phenol (Surrogate)	BH208M	SE289532.002	%	20 - 130%	81

OC Pesticides in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH208M	SE289532.002	%	40 - 130%	113

OP Pesticides in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH208M	SE289532.002	%	40 - 130%	97
d14-p-terphenyl (Surrogate)	BH208M	SE289532.002	%	40 - 130%	103

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH201M	SE289532.001	%	40 - 130%	90
	BH208M	SE289532.002	%	40 - 130%	97
d14-p-terphenyl (Surrogate)	BH201M	SE289532.001	%	40 - 130%	101
	BH208M	SE289532.002	%	40 - 130%	103
d5-nitrobenzene (Surrogate)	BH201M	SE289532.001	%	40 - 130%	98
	BH208M	SE289532.002	%	40 - 130%	102

PCBs in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH208M	SE289532.002	%	40 - 130%	113

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	BH208M	SE289532.002	%	10 - 150%	50
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	40 - 300%	117
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	40 - 300%	93
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	40 - 300%	111
(13C2-PFDoA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	10 - 150%	75
(13C3-PFBS) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	40 - 150%	80
(13C3-PFHxS) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	40 - 150%	90
(13C4_PFOA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	40 - 150%	90
(13C4-PFBA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	5 - 150%	64
(13C4-PFHpA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	40 - 150%	103
(13C5-PFHxA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	40 - 150%	93
(13C5-PFPeA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	35 - 150%	73
(13C6-PFDA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	40 - 150%	81
(13C7-PFUDa) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	30 - 150%	72
(13C8-PFOS) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	40 - 150%	70
(13C8-PFOSA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	20 - 150%	70
(13C9-PFNA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	40 - 150%	79
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	10 - 150%	59
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	30 - 170%	62
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	10 - 150%	66
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	20 - 150%	69
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	10 - 150%	49
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery Standard	BH208M	SE289532.002	%	10 - 150%	49

VOCs in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH201M	SE289532.001	%	40 - 130%	102
	BH208M	SE289532.002	%	40 - 130%	105
	QD_20250916	SE289532.003	%	40 - 130%	102
	TS	SE289532.004	%	40 - 130%	97
	TB	SE289532.005	%	40 - 130%	102

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)	R1-20250916	SE289532.006	%	40 - 130%	103
d4-1,2-dichloroethane (Surrogate)	BH201M	SE289532.001	%	40 - 130%	80
	BH208M	SE289532.002	%	40 - 130%	79
	QD_20250916	SE289532.003	%	40 - 130%	81
	TS	SE289532.004	%	40 - 130%	96
	TB	SE289532.005	%	40 - 130%	81
d8-toluene (Surrogate)	R1-20250916	SE289532.006	%	40 - 130%	80
	BH201M	SE289532.001	%	40 - 130%	79
	BH208M	SE289532.002	%	40 - 130%	77
	QD_20250916	SE289532.003	%	40 - 130%	80
	TS	SE289532.004	%	40 - 130%	90
	TB	SE289532.005	%	40 - 130%	78
	R1-20250916	SE289532.006	%	40 - 130%	78

Volatile Petroleum Hydrocarbons in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH201M	SE289532.001	%	40 - 130%	102
	BH208M	SE289532.002	%	40 - 130%	105
	QD_20250916	SE289532.003	%	40 - 130%	102
	R1-20250916	SE289532.006	%	40 - 130%	103
d4-1,2-dichloroethane (Surrogate)	BH201M	SE289532.001	%	60 - 130%	80
	BH208M	SE289532.002	%	60 - 130%	79
	QD_20250916	SE289532.003	%	60 - 130%	81
	R1-20250916	SE289532.006	%	60 - 130%	80
d8-toluene (Surrogate)	BH201M	SE289532.001	%	40 - 130%	79
	BH208M	SE289532.002	%	40 - 130%	77
	QD_20250916	SE289532.003	%	40 - 130%	80
	R1-20250916	SE289532.006	%	40 - 130%	78

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
LB361350.001	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
LB361138.001	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
LB361441.001	Fluoride	mg/L	0.1	<0.10
	Chloride	mg/L	0.05	<0.05
	Bromide	mg/L	0.05	<0.05
	Nitrate Nitrogen, NO ₃ -N	mg/L	0.005	<0.005
	Sulfate, SO ₄	mg/L	1	<1.0

Conductivity and TDS by Calculation - Water

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

Sample Number	Parameter	Units	LOR	Result
LB361147.001	Conductivity @ 25 C	µS/cm	2	<2

Dissolved Oxygen by Membrane Electrode

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

Sample Number	Parameter	Units	LOR	Result
LB361149.001	Dissolved Oxygen**	mg/L	0.5	<0.5

Filterable Reactive Phosphorus (FRP)

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

Sample Number	Parameter	Units	LOR	Result
LB361138.001	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
LB361442.001	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
LB361226.001	01-PAHs	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&k)fluoranthene	µg/L	0.2	<0.2
		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
		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
	02-OCs	Aldrin	µg/L	0.1	<0.1
		Alpha-BHC	µg/L	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Full 8270 SVOC in Water (continued)

Method: ME-(AU)-ENVJAN420

Sample Number		Parameter	Units	LOR	Result
LB361226.001	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 (Ronnel)	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
LB361226.001	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
	06-Phthalates	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
	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
		1-naphthylamine	µg/L	2	<2
		2-naphthylamine	µg/L	2	<2
12-Haloethers		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]JAN420

Sample Number		Parameter	Units	LOR	Result
LB361226.001	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)	%	-	101
		d5-nitrobenzene (Surrogate)	%	-	106
		2-fluorobiphenyl (Surrogate)	%	-	102
		2,4,6-Tribromophenol (Surrogate)	%	-	98
		d14-p-terphenyl (Surrogate)	%	-	98

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]JAN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB361798.001	Mercury, Hg	mg/L	0.00005	<0.00005

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]JAN320

Sample Number	Parameter	Units	LOR	Result
LB361611.001	Calcium, Ca	mg/L	0.2	<0.2
	Magnesium, Mg	mg/L	0.1	<0.1
	Potassium, K	mg/L	0.1	<0.1
	Silicon, Si*	mg/L	0.05	<0.05
	Sodium, Na	mg/L	0.5	<0.5

Nitrite in Water

Method: ME-(AU)-[ENV]JAN277

Sample Number	Parameter	Units	LOR	Result
LB361138.001	Nitrite Nitrogen, NO2 as N	mg/L	0.005	0.005

OC Pesticides in Water

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result
LB361226.001	Alpha BHC	µg/L	0.1	<0.1
	Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
	Beta BHC	µg/L	0.1	<0.1
	Lindane (gamma BHC)	µg/L	0.1	<0.1
	Delta BHC	µg/L	0.1	<0.1
	Heptachlor	µg/L	0.1	<0.1
	Aldrin	µg/L	0.1	<0.1
	Heptachlor epoxide	µg/L	0.1	<0.1
	Gamma Chlordane	µg/L	0.1	<0.1
	Alpha Chlordane	µg/L	0.1	<0.1
	Alpha Endosulfan	µg/L	0.1	<0.1
	p,p'-DDE	µg/L	0.1	<0.1
	Dieldrin	µg/L	0.1	<0.1
	Endrin	µg/L	0.1	<0.1
	Beta Endosulfan	µg/L	0.1	<0.1
	p,p'-DDD	µg/L	0.1	<0.1
	Endrin aldehyde	µg/L	0.1	<0.1
	Endosulfan sulphate	µg/L	0.1	<0.1
	p,p'-DDT	µg/L	0.1	<0.1
	Endrin ketone	µg/L	0.1	<0.1
	Methoxychlor	µg/L	0.1	<0.1
	Mirex	µg/L	0.1	<0.1

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OC Pesticides in Water (continued)

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

Sample Number	Parameter	Units	LOR	Result	
LB361226.001	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	91

OP Pesticides in Water

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

Sample Number	Parameter	Units	LOR	Result
LB361226.001	Azinphos-methyl	µg/L	0.2	<0.2
	Bromophos Ethyl	µg/L	0.2	<0.2
	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
	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	0.2	<0.2
	Fenitrothion	µg/L	0.2	<0.2
	Malathion	µg/L	0.2	<0.2
	Methidathion	µg/L	0.5	<0.5
	Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
Surrogates	2-fluorobiphenyl (Surrogate)	%	-	80
	d14-p-terphenyl (Surrogate)	%	-	86

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result
LB361226.001	Naphthalene	µg/L	0.1	<0.1
	2-methylnaphthalene	µg/L	0.1	<0.1
	1-methylnaphthalene	µg/L	0.1	<0.1
	Acenaphthylene	µg/L	0.1	<0.1
	Acenaphthene	µg/L	0.1	<0.1
	Fluorene	µg/L	0.1	<0.1
	Phenanthrene	µg/L	0.1	<0.1
	Anthracene	µg/L	0.1	<0.1
	Fluoranthene	µg/L	0.1	<0.1
	Pyrene	µg/L	0.1	<0.1
	Benzo(a)anthracene	µg/L	0.1	<0.1
	Chrysene	µg/L	0.1	<0.1
	Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2
	Benzo(a)pyrene	µg/L	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
	Dibenzo(ah)anthracene	µg/L	0.1	<0.1
	Benzo(ghi)perylene	µg/L	0.1	<0.1
Surrogates	d5-nitrobenzene (Surrogate)	%	-	80
	2-fluorobiphenyl (Surrogate)	%	-	80
	d14-p-terphenyl (Surrogate)	%	-	86

PCBs in Water

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

Sample Number	Parameter	Units	LOR	Result
LB361226.001	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
LB361255.001	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

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

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

Sample Number	Parameter	Units	LOR	Result
LB361255.001	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 (N-MeFOSAA)	µg/L	0.05	<0.05
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	µg/L	0.05	<0.05
	2-(N-Methylperfluorooctane sulfonamido)-ethanol (N-MeFOSE)	µg/L	0.05	<0.05
	2-(N-Ethylperfluorooctane sulfonamido)-ethanol (N-EtFOSE)	µg/L	0.05	<0.05

Total and Volatile Suspended Solids (TSS / VSS)

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

Sample Number	Parameter	Units	LOR	Result
LB361261.001	Total Suspended Solids Dried at 103-105°C	mg/L	5	<5

Total Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN077/AN287

Sample Number	Parameter	Units	LOR	Result
LB361447.001	Total Cyanide	mg/L	0.004	<0.004

Total Dissolved Solids (TDS) in water

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

Sample Number	Parameter	Units	LOR	Result
LB361560.001	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
LB361445.001	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
LB361588.001	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
LB361843.001	Aluminium	µg/L	5	<5
	Antimony	µg/L	1	<1
	Arsenic	µg/L	1	<1
	Barium	µg/L	1	<1
	Beryllium	µg/L	1	<1
	Boron	µg/L	5	<5
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Cobalt	µg/L	1	<1
	Copper	µg/L	1	<1
	Iron	µg/L	5	<5

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

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

Sample Number	Parameter	Units	LOR	Result
LB361843.001	Lead	µg/L	1	<1
	Manganese	µg/L	1	<1
	Molybdenum	µg/L	1	<1
	Nickel	µg/L	1	<1
	Selenium	µg/L	1	<1
	Silver	µg/L	1	<1
	Strontium	µg/L	1	<1
	Uranium	µg/L	1	<1
	Vanadium	µg/L	1	<1
	Zinc	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result
LB361226.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

Turbidity

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

Sample Number	Parameter	Units	LOR	Result
LB361148.001	Turbidity	NTU	0.5	<0.5

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result	
LB361348.001	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	
	Halogenated Aliphatics	1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	
		Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	
		Chloromethane	µg/L	5	<5	
		Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	
		Bromomethane	µg/L	10	<10	
		Chloroethane	µg/L	5	<5	
		Trichlorofluoromethane	µg/L	1	<1	
		1,1-dichloroethene	µg/L	0.5	<0.5	
		Iodomethane	µg/L	5	<5	
		Dichloromethane (Methylene chloride)	µg/L	5	<5	
		Allyl chloride	µg/L	2	<2.0	
		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

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
LB361348.001	Halogenated Aromatics	2-chlorotoluene	µg/L	0.5	<0.5
		4-chlorotoluene	µg/L	0.5	<0.5
		1,3-dichlorobenzene	µg/L	0.5	<0.5
		1,4-dichlorobenzene	µg/L	0.3	<0.3
		1,2-dichlorobenzene	µg/L	0.5	<0.5
		1,2,4-trichlorobenzene	µg/L	0.5	<0.5
		1,2,3-trichlorobenzene	µg/L	0.5	<0.5
	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		Styrene (Vinyl benzene)	µg/L	0.5	<0.5
		o-xylene	µg/L	0.5	<0.5
		Isopropylbenzene (Cumene)	µg/L	0.5	<0.5
		n-propylbenzene	µg/L	0.5	<0.5
		1,3,5-trimethylbenzene	µg/L	0.5	<0.5
		tert-butylbenzene	µg/L	0.5	<0.5
		1,2,4-trimethylbenzene	µg/L	0.5	<0.5
		sec-butylbenzene	µg/L	0.5	<0.5
		p-isopropyltoluene	µg/L	0.5	<0.5
		n-butylbenzene	µg/L	0.5	<0.5
	Nitrogenous Compounds	Acrylonitrile	µg/L	0.5	<0.5
	Oxygenated Compounds	Acetone (2-propanone)	µg/L	10	<10
		MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5
		Vinyl acetate*	µg/L	10	<10
		MEK (2-butanone)	µg/L	10	<10
		MIBK (4-methyl-2-pentanone)	µg/L	5	<5
	Polycyclic VOCs	2-hexanone (MBK)	µg/L	5	<5
		Naphthalene (VOC)*	µg/L	0.5	<0.5
	Sulphonated	Carbon disulfide	µg/L	2	<2.0
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	80
		d8-toluene (Surrogate)	%	-	77
		Bromofluorobenzene (Surrogate)	%	-	98
	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
LB361348.001	Surrogates	TRH C6-C9	µg/L	40	<40
		d4-1,2-dichloroethane (Surrogate)	%	-	80
		d8-toluene (Surrogate)	%	-	77
		Bromofluorobenzene (Surrogate)	%	-	98

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]JAN135

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289547.007	LB361350.013	Bicarbonate Alkalinity as CaCO ₃	mg/L	5	<5	7	106	28
		Carbonate Alkalinity as CaCO ₃	mg/L	5	<1	<1	200	0
		Total Alkalinity as CaCO ₃	mg/L	5	<5	7	106	28
SE289547.010	LB361350.017	Bicarbonate Alkalinity as CaCO ₃	mg/L	5	9	8	74	1
		Carbonate Alkalinity as CaCO ₃	mg/L	5	<1	<1	200	0
		Total Alkalinity as CaCO ₃	mg/L	5	9	8	74	1

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]JAN291

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289500.001	LB361138.014	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	0.17	0.17	21	0
SE289532.002	LB361138.024	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	0.02	0.02	80	2

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]JAN245

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289319.001	LB361441.014	Nitrate Nitrogen, NO ₃ -N	mg/L	0.005	<0.025	<0.025	200	0
		Sulfate, SO ₄	mg/L	1	250	240	15	3
SE289539.001	LB361441.020	Fluoride	mg/L	0.1	0.40	0.45	38	12
		Nitrate Nitrogen, NO ₃ -N	mg/L	0.005	0.015	0.015	49	3

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]JAN106

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289532.002	LB361147.008	Conductivity @ 25 C	µS/cm	2	360	360	16	0

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]JAN278

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289500.001	LB361138.014	Filterable Reactive Phosphorus as P	mg/L	0.005	4.7	4.6	15	4
SE289532.002	LB361138.024	Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005	<0.005	162	0

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]JAN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289532.001	LB361611.014	Calcium, Ca	mg/L	0.2	8.1	8.2	17	1
		Magnesium, Mg	mg/L	0.1	2.6	2.6	19	2
SE289547.008	LB361611.028	Calcium, Ca	mg/L	0.2	5.9	6.0	18	2
		Magnesium, Mg	mg/L	0.1	5.1	5.2	17	2
		Potassium, K	mg/L	0.1	2.124	2.1635	20	2
		Sodium, Na	mg/L	0.5	25.039	25.406	17	1
		Calcium, Ca	mg/L	0.2	3.0	3.0	22	0
SE289547.010	LB361611.031	Magnesium, Mg	mg/L	0.1	2.4	2.4	19	0
		Potassium, K	mg/L	0.1	2.3733	2.3886	19	1
		Sodium, Na	mg/L	0.5	12.484	12.503	19	0

Nitrite in Water

Method: ME-(AU)-[ENV]JAN277

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289500.001	LB361138.014	Nitrite Nitrogen, NO ₂ as N	mg/L	0.005	0.30	0.30	17	1
SE289532.002	LB361138.024	Nitrite Nitrogen, NO ₂ as N	mg/L	0.005	0.023	0.022	37	3

OC Pesticides in Water

Method: ME-(AU)-[ENV]JAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289479.013	LB361226.028	Alpha BHC	µg/L	0.1	<0.1	<0.1	200	0
		Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	200	0
		Beta BHC	µg/L	0.1	<0.1	<0.1	200	0
		Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	200	0
		Delta BHC	µg/L	0.1	<0.1	<0.1	200	0
		Heptachlor	µg/L	0.1	<0.1	<0.1	200	0
		Aldrin	µg/L	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	200	0
		Gamma Chlordane	µg/L	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	µg/L	0.1	<0.1	<0.1	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

OC Pesticides in Water (continued)

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289479.013	LB361226.028	Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	200	0
		p,p'-DDE	µg/L	0.1	<0.1	<0.1	200	0
		Dieldrin	µg/L	0.1	<0.1	<0.1	200	0
		Endrin	µg/L	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	µg/L	0.1	<0.1	<0.1	200	0
		p,p'-DDD	µg/L	0.1	<0.1	<0.1	200	0
		Endrin aldehyde	µg/L	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	200	0
		p,p'-DDT	µg/L	0.1	<0.1	<0.1	200	0
		Endrin ketone	µg/L	0.1	<0.1	<0.1	200	0
		Methoxychlor	µg/L	0.1	<0.1	<0.1	200	0
		Mirex	µg/L	0.1	<0.1	<0.1	200	0
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.13	0.13	30	1

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289532.001	LB361226.028	Naphthalene	µg/L	0.1	<0.1	<0.1	154	0
		2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
		Acenaphthylene	µg/L	0.1	<0.1	<0.1	200	0
		Acenaphthene	µg/L	0.1	<0.1	<0.1	200	0
		Fluorene	µg/L	0.1	<0.1	<0.1	200	0
		Phenanthrene	µg/L	0.1	<0.1	<0.1	200	0
		Anthracene	µg/L	0.1	<0.1	<0.1	200	0
		Fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
		Pyrene	µg/L	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	200	0
		Chrysene	µg/L	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
		Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2	<0.2	200	0
		Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	200	0
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	200	0
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.49	0.51	30	3
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.45	0.48	30	6
		d14-p-terphenyl (Surrogate)	µg/L	-	0.50	0.50	30	1

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289434.001	LB361255.020	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	200	0
		Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.03	0.03	200	1
		Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.03	0.03	200	1
		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	0.04	0.04	200	4
		Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	0.05	0.06	200	4
		Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	0.56	0.59	200	4
		Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	0.03	0.04	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	0.60	0.63	200	5
		Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	0.60	0.63	200	5
		Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	0.03	0.04	200	15
		(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	65	64	200	2
		(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	64	64	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

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

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289434.001	LB361255.020	(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	92	89	200	3
		(13C4-PFHxA) Isotopically Labelled Internal Recovery	%	-	92	88	200	3
		(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	93	92	200	0
		(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	82	82	200	0
		(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	91	87	200	6
		(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	72	65	200	10
		(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	121	116	200	5
		(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	85	86	200	1
		(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	70	64	200	10
SE289551.003	LB361255.015	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	200	0
		Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.04	0.03	200	11
		Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.15	0.14	200	8
		Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.02	0.02	200	7
		Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.05	0.05	200	0
		Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	0.04	0.04	200	18
		Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	0.1	0.1	200	3
		Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	0.12	0.12	200	2
		Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	1.0	1.1	200	1
		Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	0.08	0.07	200	5
		Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	1.6	1.5	200	6
		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	2.6	2.5	200	3
		Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	2.7	2.6	200	3
		Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	1.6	1.5	200	6
		(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	65	64	200	1
		(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	63	66	200	5
		(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	90	89	200	1
		(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	89	86	200	2
		(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	88	95	200	8
		(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	79	80	200	1
		(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	90	90	200	1
		(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	66	75	200	13
		(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	119	106	200	12
		(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	88	81	200	9
		(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	69	76	200	10

pH in water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289532.002	LB361147.008	pH**	pH Units	0.1	5.0	5.0	17	0

Redox Potential (Eh) in water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289532.002	LB361150.003	Eh of Sample Relative to Standard H+ Electrode***	mV	-500	450	445	15	1

TKN Kjeldahl Digestion by Discrete Analyser

Method: ME-(AU)-[ENV]JAN281/292

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289500.001	LB361588.027	Total Kjeldahl Nitrogen	mg/L	0.05	10	10	15	2
SE289547.003	LB361588.014	Total Kjeldahl Nitrogen	mg/L	0.05	0.84	0.84	21	0

Total and Volatile Suspended Solids (TSS / VSS)

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

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

Total and Volatile Suspended Solids (TSS / VSS) (continued)

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289446.001	LB361261.013	Total Suspended Solids Dried at 103-105°C	mg/L	5	5	<5	126	0
SE289539.001	LB361261.015	Total Suspended Solids Dried at 103-105°C	mg/L	5	<5	<5	126	0

Total Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]JAN077/AN287

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289626.001	LB361447.013	Total Cyanide	mg/L	0.004	<0.004	<0.004	200	0

Total Dissolved Solids (TDS) in water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289547.005	LB361560.013	Total Dissolved Solids Dried at 175-185°C	mg/L	10	95	93	26	2
SE289569.001	LB361560.022	Total Dissolved Solids Dried at 175-185°C	mg/L	10	3200	3200	15	2

Total Phenolics in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289367.002	LB361445.014	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0
SE289423.001	LB361445.040	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0
SE289539.001	LB361445.048	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]JAN279/AN293

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289500.001	LB361588.027	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	5.9	5.7	15	3
SE289547.003	LB361588.014	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	<0.01	<0.01	200	0

Trace Metals (Dissolved) in Water by ICPMS

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289545.022	LB361843.021	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
SE289699.001	LB361843.014	Aluminium	µg/L	5	61	63	23	3
		Arsenic	µg/L	1	<1	<1	200	0
		Boron	µg/L	5	89	89	21	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Cobalt	µg/L	1	<1	<1	148	0
		Copper	µg/L	1	1	1	85	4
		Iron	µg/L	5	220	220	17	1
		Lead	µg/L	1	<1	<1	200	0
		Manganese	µg/L	1	120	120	16	0
		Molybdenum	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	3	3	49	2
		Selenium	µg/L	1	<1	<1	200	0
		Silver	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	43	44	26	2

TRH (Total Recoverable Hydrocarbons) in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289532.001	LB361226.028	TRH C10-C14	µg/L	50	64	54	115	16
		TRH C15-C28	µg/L	200	<200	<200	191	0
		TRH C29-C36	µg/L	200	<200	<200	200	0
		TRH C37-C40	µg/L	200	<200	<200	200	0
		TRH C10-C40	µg/L	320	<320	<320	177	0
		TRH F Bands	µg/L	60	83	80	103	4
		TRH >C10-C16	µg/L	60	83	80	103	4
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	83	80	103	4

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

TRH (Total Recoverable Hydrocarbons) in Water (continued)

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289532.001	LB361226.028	TRH F Bands						
		TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
		TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

Turbidity

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289532.002	LB361148.013	Turbidity	NTU	0.5	24	24	17	3

VOCs in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289449.001	LB361348.022	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
		Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	<5	200	0
		Halogenated						
		Aliphatics						
		Chloromethane	µg/L	5	<5	<5	200	0
		Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	<0.3	200	0
		Bromomethane	µg/L	10	<10	<10	200	0
		Chloroethane	µg/L	5	<5	<5	200	0
		Trichlorofluoromethane	µg/L	1	<1	<1	200	0
		1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
		Iodomethane	µg/L	5	<5	<5	200	0
		Dichloromethane (Methylene chloride)	µg/L	5	<5	<5	200	0
		Allyl chloride	µg/L	2	<2	<2	200	0
		trans-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
		1,1-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
		cis-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
		Bromochloromethane	µg/L	0.5	<0.5	<0.5	200	0
		1,2-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
		1,1,1-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
		1,1-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
		Carbon tetrachloride	µg/L	0.5	<0.5	<0.5	200	0
		Dibromomethane	µg/L	0.5	<0.5	<0.5	200	0
		Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	<0.5	200	0
		1,1,2-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
		1,3-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
		Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	<0.5	200	0
		1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
		1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
		1,2,3-trichloropropane	µg/L	0.5	<0.5	<0.5	200	0
		trans-1,4-dichloro-2-butene	µg/L	1	<1	<1	200	0
		1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	<0.5	200	0
		Hexachlorobutadiene	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated						
		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	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
		Styrene (Vinyl benzene)	µg/L	0.5	<0.5	<0.5	200	0
		o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	<0.5	200	0

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 %
SE289449.001	LB361348.022	Monocyclic Aromatic	n-propylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,3,5-trimethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			tert-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,4-trimethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			sec-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			p-isopropyltoluene	µg/L	0.5	<0.5	<0.5	200	0
			n-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			Nitrogenous	Acrylonitrile	µg/L	0.5	<0.5	<0.5	200
		Oxygenated Compounds	Acetone (2-propanone)	µg/L	10	<10	<10	200	0
			MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5	<0.5	200	0
			Vinyl acetate*	µg/L	10	<10	<10	200	0
			MEK (2-butanone)	µg/L	10	<10	<10	200	0
			MIBK (4-methyl-2-pentanone)	µg/L	5	<5	<5	200	0
			2-hexanone (MBK)	µg/L	5	<5	<5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Sulphonated	Carbon disulfide	µg/L	2	<2	<2	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.9	8.2	30	3
			d8-toluene (Surrogate)	µg/L	-	7.8	7.7	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	10.3	10.0	30	2
		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
SE289532.001	LB361348.023	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	<0.5	166	0
			Toluene	µg/L	0.5	2.5	3.1	48	23
			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
			Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	7.8	30	2
			d8-toluene (Surrogate)	µg/L	-	7.9	7.8	30	2
			Bromofluorobenzene (Surrogate)	µg/L	-	10	10.0	30	2
		Totals	Total BTEX	µg/L	3	<3	3	136	5

Volatile Petroleum Hydrocarbons in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE289449.001	LB361348.022	TRH C6-C10	µg/L	50	<50	<50	200	0	
		TRH C6-C9	µg/L	40	<40	<40	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.9	8.2	30	3
			d8-toluene (Surrogate)	µg/L	-	7.8	7.7	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	10.3	10.0	30	2
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0
SE289532.001	LB361348.023	TRH C6-C10	µg/L	50	<50	<50	200	0	
		TRH C6-C9	µg/L	40	<40	<40	179	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	7.8	30	2
			d8-toluene (Surrogate)	µg/L	-	7.9	7.8	30	2
			Bromofluorobenzene (Surrogate)	µg/L	-	10	10.0	30	2
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	166	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Ammonia Nitrogen by Discrete Analyser

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361138.002	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	2.6	2.5	80 - 120	102

Anions by Ion Chromatography in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361441.002	Fluoride	mg/L	0.1	2.0	2	80 - 120	99
	Chloride	mg/L	0.05	21	20	80 - 120	103
	Bromide	mg/L	0.05	2.2	2	80 - 120	111
	Nitrate Nitrogen, NO ₃ -N	mg/L	0.005	2.0	2	80 - 120	101
	Sulfate, SO ₄	mg/L	1	19	20	80 - 120	95

Conductivity and TDS by Calculation - Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361147.002	Conductivity @ 25 C	µS/cm	2	1000	1015	85 - 115	98

Filterable Reactive Phosphorus (FRP)

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361138.002	Filterable Reactive Phosphorus as P	mg/L	0.005	0.095	0.1	80 - 120	95

Forms of Carbon

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361442.002	Total Organic Carbon as NPOC	mg/L	0.2	17	20	80 - 120	86

Full 8270 SVOC in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB361226.002	01-PAHs	Acenaphthene	µg/L	0.1	36	40	60 - 140	91
		Acenaphthylene	µg/L	0.1	35	40	60 - 140	87
		Anthracene	µg/L	0.1	37	40	60 - 140	93
		Benzo(a)pyrene	µg/L	0.1	38	40	60 - 140	94
		Fluoranthene	µg/L	0.1	33	40	60 - 140	82
		Naphthalene	µg/L	0.1	34	40	60 - 140	85
		Phenanthrene	µg/L	0.1	35	40	60 - 140	88
		Pyrene	µg/L	0.1	33	40	60 - 140	82
	02-OCs	Aldrin	µg/L	0.1	3.4	4	60 - 140	86
		Delta-BHC	µg/L	0.1	4.3	4	60 - 140	107
		p,p-DDT	µg/L	0.1	3.7	4	60 - 140	92
		Dieldrin	µg/L	0.1	4.5	4	60 - 140	112
		Endrin	µg/L	0.1	3.8	4	60 - 140	96
		Heptachlor	µg/L	0.1	3.3	4	60 - 140	83
	03-OPs	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	11	8	60 - 140	138
		Diazinon (Dimpylate)	µg/L	0.5	9.1	8	60 - 140	114
		Dichlorvos	µg/L	0.5	11	8	60 - 140	137
		Ethion	µg/L	0.2	11	8	60 - 140	137
	05-SVCH (CI Benzenes,	Hexachlorobenzene (HCB)	µg/L	0.1	4.1	4	60 - 140	103
		Hexachlorobutadiene	µg/L	0.5	4.0	4	60 - 140	101
		Hexachloroethane	µg/L	0.5	4.0	4	60 - 140	100
		Pentachlorobenzene	µg/L	0.5	3.9	4	60 - 140	99
		1,2,3,4-tetrachlorobenzene	µg/L	0.5	4.3	4	60 - 140	107
	06-Phthalates	Bis(2-ethylhexyl)phthalate	µg/L	10	<10	8	60 - 140	98
		Butyl benzyl phthalate	µg/L	1	7	8	60 - 140	84
		Di-n-butyl phthalate	µg/L	10	<10	8	60 - 140	81
		Diethyl phthalate	µg/L	5	7	8	60 - 140	93
		Dimethyl phthalate	µg/L	1	6	8	60 - 140	78
		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	107
	10-Nitroaromat	Pentachloronitrobenzene (quintozone)	µg/L	1	6	4	60 - 140	140

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]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361226.002	14-Speciated Routine	2,4-dichlorophenol	µg/L	0.5	37	40	60 - 140 91
		Phenol	µg/L	0.5	42	40	60 - 140 105
		2,4,6-trichlorophenol	µg/L	0.5	43	40	60 - 140 107
		Pentachlorophenol	µg/L	0.5	37	40	60 - 140 93
	Surrogates	d5-phenol (Surrogate)	µg/L	-	2.4	2	40 - 130 119
		d5-nitrobenzene (Surrogate)	µg/L	-	0.63	0.5	40 - 130 126
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.56	0.5	40 - 130 112
		2,4,6-Tribromophenol (Surrogate)	µg/L	-	5.6	5	40 - 130 112
		d14-p-terphenyl (Surrogate)	µg/L	-	0.55	0.5	40 - 130 110

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]JAN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361611.002	Calcium, Ca	mg/L	0.2	49	50.5	80 - 120 98	
	Lithium, Li	mg/L	0.005	0.095	0.1	80 - 120 95	
	Magnesium, Mg	mg/L	0.1	48	50.5	80 - 120 96	
	Potassium, K	mg/L	0.1	52	55	80 - 120 94	
	Silicon, Si*	mg/L	0.05	0.25	0.25	80 - 120 101	
	Sodium, Na	mg/L	0.5	50	50.5	80 - 120 100	

Nitrite in Water

Method: ME-(AU)-[ENV]JAN277

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361138.002	Nitrite Nitrogen, NO2 as N	mg/L	0.005	0.087	0.1	80 - 120 87	

OC Pesticides in Water

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361226.002	Delta BHC	µg/L	0.1	0.2	0.2	60 - 140 96	
	Heptachlor	µg/L	0.1	0.2	0.2	60 - 140 101	
	Aldrin	µg/L	0.1	0.2	0.2	60 - 140 98	
	Dieldrin	µg/L	0.1	0.2	0.2	60 - 140 100	
	Endrin	µg/L	0.1	0.2	0.2	60 - 140 92	
	p,p'-DDT	µg/L	0.1	0.2	0.2	60 - 140 88	
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.14	0.15	40 - 130 91

OP Pesticides in Water

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361226.002	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	9.4	8	60 - 140 117	
	Diazinon (Dimpylate)	µg/L	0.5	9.9	8	60 - 140 124	
	Dichlorvos	µg/L	0.5	7.6	8	60 - 140 95	
	Ethion	µg/L	0.2	9.4	8	60 - 140 118	
	Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.42	0.5	40 - 130 84
		d14-p-terphenyl (Surrogate)	µg/L	-	0.43	0.5	40 - 130 86

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361226.002	Naphthalene	µg/L	0.1	43	40	60 - 140 108	
	Acenaphthylene	µg/L	0.1	44	40	60 - 140 109	
	Acenaphthene	µg/L	0.1	44	40	60 - 140 110	
	Phenanthrene	µg/L	0.1	46	40	60 - 140 114	
	Anthracene	µg/L	0.1	43	40	60 - 140 107	
	Fluoranthene	µg/L	0.1	45	40	60 - 140 111	
	Pyrene	µg/L	0.1	45	40	60 - 140 112	
	Benzo(a)pyrene	µg/L	0.1	50	40	60 - 140 126	
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.40	0.5	40 - 130 80
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.42	0.5	40 - 130 84
		d14-p-terphenyl (Surrogate)	µg/L	-	0.43	0.5	40 - 130 86

PCBs in Water

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361226.002	Arochlor 1260	µg/L	1	<1	0.4	60 - 140 113	

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 %
LB361255.002	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.17	0.2	40 - 160	83
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.15	0.2	40 - 160	77
	Perfluorononanoic acid (PFNA)	µg/L	0.01	0.19	0.2	40 - 160	97
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	0.17	0.2	40 - 160	83
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	0.19	0.2	40 - 160	95
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	0.16	0.2	40 - 160	78
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	0.18	0.2	40 - 160	92
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	0.17	0.2	40 - 160	83

pH in water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361147.003	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 %
LB361150.001	Eh of Sample Relative to Standard H+ Electrode***	mV	-500	428	428	90 - 110	100

Total and Volatile Suspended Solids (TSS / VSS)

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361261.002	Total Suspended Solids Dried at 103-105°C	mg/L	5	96	100	80 - 120	96

Total Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN077/AN287

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361447.002	Total Cyanide	mg/L	0.004	0.026	0.025	80 - 120	103

Total Phenolics in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361445.002	Total Phenols	mg/L	0.05	0.20	0.2	80 - 120	102

Total Phosphorus by Kjeldahl Digestion DA in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361588.002	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.1	1	80 - 120	107

Trace Metals (Dissolved) in Water by ICPMS

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361843.002	Aluminium	µg/L	5	19	20	80 - 120	96
	Antimony	µg/L	1	20	20	80 - 120	100
	Arsenic	µg/L	1	18	20	80 - 120	92
	Barium	µg/L	1	21	20	80 - 120	103
	Beryllium	µg/L	1	18	20	80 - 120	92
	Boron	µg/L	5	20	20	80 - 120	98
	Cadmium	µg/L	0.1	20	20	80 - 120	100
	Chromium	µg/L	1	20	20	80 - 120	101
	Cobalt	µg/L	1	20	20	80 - 120	102
	Copper	µg/L	1	21	20	80 - 120	103
	Iron	µg/L	5	20	20	80 - 120	98
	Lead	µg/L	1	21	20	80 - 120	103
	Manganese	µg/L	1	20	20	80 - 120	100
	Molybdenum	µg/L	1	20	20	80 - 120	100
	Nickel	µg/L	1	20	20	80 - 120	101
	Selenium	µg/L	1	19	20	80 - 120	93
	Silver	µg/L	1	17	20	80 - 120	86

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

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

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361843.002	Strontium	µg/L	1	20	20	80 - 120	102
	Uranium	µg/L	1	21	20	80 - 120	107
	Vanadium	µg/L	1	20	20	80 - 120	99
	Zinc	µg/L	5	21	20	80 - 120	103

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361226.002	TRH C10-C14	µg/L	50	870	1000	60 - 140	87
	TRH F Bands TRH >C10-C16	µg/L	60	870	1000	60 - 140	87

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361348.002	Halogenated	1,1-dichloroethene	µg/L	0.5	54	45.45	60 - 140	118
	Aliphatics	1,2-dichloroethane	µg/L	0.5	43	45.45	60 - 140	96
		Trichloroethene (Trichloroethylene, TCE)		µg/L	0.5	46	45.45	60 - 140
	Halogenated	Chlorobenzene	µg/L	0.5	43	45.45	60 - 140	94
	Monocyclic	Benzene	µg/L	0.5	21	25	60 - 140	86
	Aromatic	Toluene	µg/L	0.5	21	25	60 - 140	85
		Ethylbenzene	µg/L	0.5	22	25	60 - 140	86
		m/p-xylene	µg/L	1	43	50	60 - 140	87
		o-xylene	µg/L	0.5	23	25	60 - 140	92
	Trihalomethan	Chloroform (THM)	µg/L	0.5	53	45.45	60 - 140	116

Volatile Petroleum Hydrocarbons in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361348.002	TRH C6-C10	µg/L	50	300	400	60 - 140	76
	TRH C6-C9	µg/L	40	280	350	60 - 140	81

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%
SE289446.001	LB361138.004	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	2.8	0.01	2.5	111

Anions by Ion Chromatography in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289532.002	LB361441.021	Fluoride	mg/L	0.1	2.2	<0.10	2	106
		Chloride	mg/L	0.05	74	55	20	94
		Bromide	mg/L	0.05	2.4	<0.05	2	119
		Nitrate Nitrogen, NO ₃ -N	mg/L	0.005	2.7	0.66	2	101

Filterable Reactive Phosphorus (FRP)

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289532.002	LB361138.026	Filterable Reactive Phosphorus as P	mg/L	0.005	0.094	<0.005	0.1	96

Forms of Carbon

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289429.001	LB361442.005	Total Organic Carbon as NPOC	mg/L	0.2	51	5.8	50	89

Mercury (dissolved) in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289531.001	LB361798.004	Mercury, Hg	mg/L	0.00005	0.0022	<0.0001	0.008	111

Metals in Water (Dissolved) by ICPOES

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289435.001	LB361611.004	Calcium, Ca	mg/L	0.2	260	220	50.5	96

Nitrite in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289532.002	LB361138.026	Nitrite Nitrogen, NO ₂ as N	mg/L	0.005	0.11	0.023	0.1	86

TKN Kjeldahl Digestion by Discrete Analyser

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289532.002	LB361588.028	Total Kjeldahl Nitrogen	mg/L	0.05	2.9	0.32	2.5	102

Total Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN077/AN287

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289627.001	LB361447.014	Total Cyanide	mg/L	0.004	0.026	0.000445	0.025	102

Total Phenolics in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289295.001	LB361445.004	Total Phenols	mg/L	0.05	0.20	<0.05	0.2	100

Total Phosphorus by Kjeldahl Digestion DA in Water

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

QC Sample	Sample Number	Parameter	Units	LOR
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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.

Total Phosphorus by Kjeldahl Digestion DA in Water (continued)

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289532.002	LB361588.028	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.0	<0.02	1	102

Trace Metals (Dissolved) in Water by ICPMS

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289324.001	LB361843.004	Antimony	µg/L	1	20	<1	20	100
		Arsenic	µg/L	1	18	<1	20	91
		Barium	µg/L	1	26	5	20	106
		Cadmium	µg/L	0.1	20	<0.1	20	101
		Copper	µg/L	1	21	<1	20	105
		Iron	µg/L	5	69	43	20	130
		Lead	µg/L	1	21	<1	20	103
		Manganese	µg/L	1	42	21	20	105
		Molybdenum	µg/L	1	17	<1	20	86
		Nickel	µg/L	1	21	<1	20	103
		Selenium	µg/L	1	18	<1	20	91
		Strontium	µg/L	1	37	16	20	102
		Zinc	µg/L	5	26	<5	20	105

VOCs in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE289532.006	LB361348.024	Monocyclic	Benzene	µg/L	0.5	<0.5	25	91
			Aromatic	Toluene	µg/L	0.5	<0.5	25
			Ethylbenzene	µg/L	0.5	<0.5	25	103
			m/p-xylene	µg/L	1	<1	50	93
			o-xylene	µg/L	0.5	<0.5	25	97
			Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	-	88
			d8-toluene (Surrogate)	µg/L	-	7.8	-	87
			Bromofluorobenzene (Surrogate)	µg/L	-	10	-	95
		Totals	Total BTEX	µg/L	3	<3	-	-

Volatile Petroleum Hydrocarbons in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%	
SE289532.006	LB361348.024	TRH C6-C10	µg/L	50	<50	400	85	
		TRH C6-C9	µg/L	40	<40	350	88	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	-	88
			d8-toluene (Surrogate)	µg/L	-	7.8	-	87
			Bromofluorobenzene (Surrogate)	µg/L	-	10	-	95
		VPH F	Benzene (F0)	µg/L	0.5	<0.5	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	-	-

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

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here : <https://www.sgs.com/en-au/industry/environmental-health-and-safety>

- * NATA accreditation does not cover the performance of this service .
- ** Indicative data, theoretical holding time exceeded.
- *** Indicates that both * and ** apply.
- Sample not analysed for this analyte.
- IS Insufficient sample for analysis.
- LNR Sample listed, but not received.
- LOR Limit of reporting.
- QFH QC result is above the upper tolerance.
- QFL QC result is below the lower tolerance.
- NA Not Applicable
- ① At least 2 of 3 surrogates are within acceptance criteria.
- ② RPD failed acceptance criteria due to sample heterogeneity.
- ③ Results less than 5 times LOR preclude acceptance criteria for RPD.
- ④ Recovery failed acceptance criteria due to matrix interference.
- ⑤ Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
- ⑥ LOR was raised due to sample matrix interference.
- ⑦ LOR was raised due to dilution of significantly high concentration of analyte in sample.
- ⑧ Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
- ⑨ Recovery failed acceptance criteria due to sample heterogeneity.
- ⑩ LOR was raised due to high conductivity of the sample (required dilution).
- † Refer to relevant report comments for further information.

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STATEMENT OF QA/QC PERFORMANCE

SE251689 R0

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SGS Reference **SE251689 R0**
Date Received 02 Aug 2023
Date Reported 07 Aug 2023

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.

This QA/QC Statement must be read in conjunction with the referenced Analytical Report.

The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Sample counts by matrix	4 Water	Type of documentation received	COC
Date documentation received	2/8/2023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	5.3°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		

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Mercury (dissolved) in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GWBH101M	SE251689.001	LB287211	02 Aug 2023	02 Aug 2023	30 Aug 2023	04 Aug 2023	30 Aug 2023	04 Aug 2023
QD1	SE251689.002	LB287211	02 Aug 2023	02 Aug 2023	30 Aug 2023	04 Aug 2023	30 Aug 2023	04 Aug 2023

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GWBH101M	SE251689.001	LB287090	02 Aug 2023	02 Aug 2023	09 Aug 2023	03 Aug 2023	12 Sep 2023	04 Aug 2023
QD1	SE251689.002	LB287090	02 Aug 2023	02 Aug 2023	09 Aug 2023	03 Aug 2023	12 Sep 2023	04 Aug 2023

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
GWBH101M	SE251689.001	LB287085	02 Aug 2023	02 Aug 2023	29 Jan 2024	03 Aug 2023	29 Jan 2024	03 Aug 2023
QD1	SE251689.002	LB287085	02 Aug 2023	02 Aug 2023	29 Jan 2024	03 Aug 2023	29 Jan 2024	03 Aug 2023

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
GWBH101M	SE251689.001	LB287090	02 Aug 2023	02 Aug 2023	09 Aug 2023	03 Aug 2023	12 Sep 2023	07 Aug 2023
QD1	SE251689.002	LB287090	02 Aug 2023	02 Aug 2023	09 Aug 2023	03 Aug 2023	12 Sep 2023	07 Aug 2023

VOCs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GWBH101M	SE251689.001	LB287101	02 Aug 2023	02 Aug 2023	16 Aug 2023	03 Aug 2023	16 Aug 2023	07 Aug 2023
QD1	SE251689.002	LB287101	02 Aug 2023	02 Aug 2023	16 Aug 2023	03 Aug 2023	16 Aug 2023	07 Aug 2023
Trip blank	SE251689.003	LB287101	02 Aug 2023	02 Aug 2023	16 Aug 2023	03 Aug 2023	16 Aug 2023	07 Aug 2023
Trip spike	SE251689.004	LB287101	02 Aug 2023	02 Aug 2023	16 Aug 2023	03 Aug 2023	16 Aug 2023	07 Aug 2023

Volatile Petroleum Hydrocarbons in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GWBH101M	SE251689.001	LB287101	02 Aug 2023	02 Aug 2023	16 Aug 2023	03 Aug 2023	16 Aug 2023	07 Aug 2023
QD1	SE251689.002	LB287101	02 Aug 2023	02 Aug 2023	16 Aug 2023	03 Aug 2023	16 Aug 2023	07 Aug 2023
Trip blank	SE251689.003	LB287101	02 Aug 2023	02 Aug 2023	16 Aug 2023	03 Aug 2023	16 Aug 2023	07 Aug 2023
Trip spike	SE251689.004	LB287101	02 Aug 2023	02 Aug 2023	16 Aug 2023	03 Aug 2023	16 Aug 2023	07 Aug 2023

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.

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	GWBH101M	SE251689.001	%	40 - 130%	66
d14-p-terphenyl (Surrogate)	GWBH101M	SE251689.001	%	40 - 130%	83
d5-nitrobenzene (Surrogate)	GWBH101M	SE251689.001	%	40 - 130%	57

VOCs in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	GWBH101M	SE251689.001	%	40 - 130%	114
	QD1	SE251689.002	%	40 - 130%	92
	Trip blank	SE251689.003	%	40 - 130%	106
	Trip spike	SE251689.004	%	40 - 130%	119
d4-1,2-dichloroethane (Surrogate)	GWBH101M	SE251689.001	%	40 - 130%	96
	QD1	SE251689.002	%	40 - 130%	99
	Trip blank	SE251689.003	%	40 - 130%	102
	Trip spike	SE251689.004	%	40 - 130%	111
d8-toluene (Surrogate)	GWBH101M	SE251689.001	%	40 - 130%	108
	QD1	SE251689.002	%	40 - 130%	87
	Trip blank	SE251689.003	%	40 - 130%	105
	Trip spike	SE251689.004	%	40 - 130%	104

Volatile Petroleum Hydrocarbons in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	GWBH101M	SE251689.001	%	40 - 130%	114
	QD1	SE251689.002	%	40 - 130%	92
d4-1,2-dichloroethane (Surrogate)	GWBH101M	SE251689.001	%	60 - 130%	96
	QD1	SE251689.002	%	60 - 130%	99
d8-toluene (Surrogate)	GWBH101M	SE251689.001	%	40 - 130%	108
	QD1	SE251689.002	%	40 - 130%	87

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury (dissolved) in Water

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

Sample Number	Parameter	Units	LOR	Result
LB287211.001	Mercury	mg/L	0.0001	<0.0001

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result
LB287090.001	Naphthalene	µg/L	0.1	<0.1
	2-methylnaphthalene	µg/L	0.1	<0.1
	1-methylnaphthalene	µg/L	0.1	<0.1
	Acenaphthylene	µg/L	0.1	<0.1
	Acenaphthene	µg/L	0.1	<0.1
	Fluorene	µg/L	0.1	<0.1
	Phenanthrene	µg/L	0.1	<0.1
	Anthracene	µg/L	0.1	<0.1
	Fluoranthene	µg/L	0.1	<0.1
	Pyrene	µg/L	0.1	<0.1
	Benzo(a)anthracene	µg/L	0.1	<0.1
	Chrysene	µg/L	0.1	<0.1
	Benzo(a)pyrene	µg/L	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
	Dibenzo(ah)anthracene	µg/L	0.1	<0.1
	Benzo(ghi)perylene	µg/L	0.1	<0.1
Surrogates	d5-nitrobenzene (Surrogate)	%	-	49
	2-fluorobiphenyl (Surrogate)	%	-	50
	d14-p-terphenyl (Surrogate)	%	-	67

Trace Metals (Dissolved) in Water by ICPMS

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

Sample Number	Parameter	Units	LOR	Result
LB287085.001	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

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result
LB287090.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result
LB287101.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	103
		d8-toluene (Surrogate)	%	-	112
		Bromofluorobenzene (Surrogate)	%	-	115

Volatile Petroleum Hydrocarbons in Water

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

Sample Number	Parameter	Units	LOR	Result
LB287101.001	TRH C6-C9	µg/L	40	<40
	Surrogates			
	d4-1,2-dichloroethane (Surrogate)	%	-	103
	d8-toluene (Surrogate)	%	-	112
	Bromofluorobenzene (Surrogate)	%	-	115

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

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

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason 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 give a different calculated RPD.

Mercury (dissolved) in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251679.001	LB287211.014	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	0
SE251760.014	LB287211.024	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	22

Trace Metals (Dissolved) in Water by ICPMS

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251689.002	LB287085.014	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	181	0
		Copper	µg/L	1	1	1	89	2
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	3	3	45	1
		Zinc	µg/L	5	22	22	38	0

TRH (Total Recoverable Hydrocarbons) in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251689.002	LB287090.023	TRH C10-C14	µg/L	50	<50	<50	200	0
		TRH C15-C28	µg/L	200	<200	<200	200	0
		TRH C29-C36	µg/L	200	<200	<200	200	0
		TRH C37-C40	µg/L	200	<200	<200	200	0
		TRH C10-C40	µg/L	320	<320	<320	200	0
		TRH F Bands	µg/L	60	<60	<60	200	0
		TRH >C10-C16	µg/L	60	<60	<60	200	0
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	200	0
		TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
		TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

VOCs in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251528.004	LB287101.023	Monocyclic	Benzene	µg/L	0.5	0	0	200	0
			Aromatic	Toluene	µg/L	0.5	0.03083316040.0311447302	200	0
			Ethylbenzene	µg/L	0.5	0.00849242040.0065858174	200	0	
			m/p-xylene	µg/L	1	0.01952230930.0185990375	200	0	
			o-xylene	µg/L	0.5	0.00894698640.0089597645	200	0	
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	0.05398749340.0369792468	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.88855993409.0431086416	30	9	
			d8-toluene (Surrogate)	µg/L	-	10.40022203200.9099288183	30	5	
			Bromofluorobenzene (Surrogate)	µg/L	-	9.117594123711.0089191724	30	19	
		Totals	Total BTEX	µg/L	3	0	0	200	0
SE251689.001	LB287101.022	Monocyclic	Benzene	µg/L	0.5	<0.5	0.1447009817	200	0
			Aromatic	Toluene	µg/L	0.5	<0.5	0.2101189595	200
			Ethylbenzene	µg/L	0.5	<0.5	0.0313211150	200	0
			m/p-xylene	µg/L	1	<1	0.0879805247	200	0
			o-xylene	µg/L	0.5	<0.5	0.0435993899	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	0.0960395904	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.6	9.2900590226	30	4
			d8-toluene (Surrogate)	µg/L	-	10.8	10.6658684228	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	11.4	10.4762472785	30	8
		Totals	Total BTEX	µg/L	3	<3	0	200	0

Volatile Petroleum Hydrocarbons in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE251528.004	LB287101.023	TRH C6-C10	µg/L	50	3.6148749476	0	200	0	
		TRH C6-C9	µg/L	40	4.0959737888	0	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.88855993409.0431086416	30	9	
			d8-toluene (Surrogate)	µg/L	-	10.40022203200.9099288183	30	5	
			Bromofluorobenzene (Surrogate)	µg/L	-	9.117594123711.0089191724	30	19	
		VPH F Bands	Benzene (F0)	µg/L	0.5	0	0	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	3.6148749476	0	200	0
		SE251689.001	LB287101.022	TRH C6-C10	µg/L	50	<50	0	200
TRH C6-C9	µg/L			40	<40	0	200	0	
Surrogates	d4-1,2-dichloroethane (Surrogate)			µg/L	-	9.6	9.2900590226	30	4
	d8-toluene (Surrogate)			µg/L	-	10.8	10.6658684222	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 give a different calculated RPD.

Volatile Petroleum Hydrocarbons in Water (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251689.001	LB287101.022	Surrogates	Bromofluorobenzene (Surrogate)	µg/L	-	11.4	10.4762472785	30	8
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	0.1447009817	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	0	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB287090.002	Naphthalene	µg/L	0.1	43	40	60 - 140	109
	Acenaphthylene	µg/L	0.1	50	40	60 - 140	126
	Acenaphthene	µg/L	0.1	48	40	60 - 140	119
	Phenanthrene	µg/L	0.1	49	40	60 - 140	122
	Anthracene	µg/L	0.1	50	40	60 - 140	125
	Fluoranthene	µg/L	0.1	53	40	60 - 140	132
	Pyrene	µg/L	0.1	56	40	60 - 140	140
	Benzo(a)pyrene	µg/L	0.1	50	40	60 - 140	126
	Surrogates						
	d5-nitrobenzene (Surrogate)	µg/L	-	0.2	0.5	40 - 130	47
	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	58
	d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	79

Trace Metals (Dissolved) in Water by ICPMS

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB287085.002	Arsenic	µg/L	1	20	20	80 - 120	98
	Cadmium	µg/L	0.1	20	20	80 - 120	101
	Chromium	µg/L	1	20	20	80 - 120	100
	Copper	µg/L	1	20	20	80 - 120	101
	Lead	µg/L	1	20	20	80 - 120	102
	Nickel	µg/L	1	21	20	80 - 120	103
	Zinc	µg/L	5	21	20	80 - 120	103

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB287090.002	TRH C10-C14	µg/L	50	1000	1200	60 - 140	84
	TRH C15-C28	µg/L	200	1200	1200	60 - 140	101
	TRH C29-C36	µg/L	200	1300	1200	60 - 140	112
	TRH F Bands						
	TRH >C10-C16	µg/L	60	1100	1200	60 - 140	91
	TRH >C16-C34 (F3)	µg/L	500	1300	1200	60 - 140	112
	TRH >C34-C40 (F4)	µg/L	500	650	600	60 - 140	109

VOCs in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB287101.002	Monocyclic						
	Benzene	µg/L	0.5	53	45.45	60 - 140	118
	Aromatic						
	Toluene	µg/L	0.5	55	45.45	60 - 140	120
	Ethylbenzene	µg/L	0.5	51	45.45	60 - 140	112
	m/p-xylene	µg/L	1	99	90.9	60 - 140	109
	o-xylene	µg/L	0.5	49	45.45	60 - 140	109
	Surrogates						
	d4-1,2-dichloroethane (Surrogate)	µg/L	-	11.8	10	60 - 140	118
	d8-toluene (Surrogate)	µg/L	-	12.8	10	70 - 130	128
	Bromofluorobenzene (Surrogate)	µg/L	-	10.7	10	70 - 130	107

Volatile Petroleum Hydrocarbons in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB287101.002	TRH C6-C10	µg/L	50	900	946.63	60 - 140	95
	TRH C6-C9	µg/L	40	780	818.71	60 - 140	95
	Surrogates						
	d4-1,2-dichloroethane (Surrogate)	µg/L	-	11.8	10	60 - 140	118
	d8-toluene (Surrogate)	µg/L	-	12.8	10	70 - 130	128
	Bromofluorobenzene (Surrogate)	µg/L	-	10.7	10	70 - 130	107
	VPH F Bands						
	TRH C6-C10 minus BTEX (F1)	µg/L	50	590	639.67	60 - 140	92

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.

Mercury (dissolved) in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE251650.025	LB287211.004	Mercury	mg/L	0.0001	0.0020	0.006	0.008	100

Trace Metals (Dissolved) in Water by ICPMS

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE251639.001	LB287085.004	Arsenic	µg/L	1	21	0.147	20	105
		Cadmium	µg/L	0.1	21	0.041	20	103
		Chromium	µg/L	1	21	0.063	20	103
		Copper	µg/L	1	22	1.059	20	103
		Lead	µg/L	1	21	0.023	20	104
		Nickel	µg/L	1	21	0.236	20	106
		Zinc	µg/L	5	42	22.203	20	101

VOCs in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%	
SE251547.001	LB287101.024	Monocyclic	Benzene	µg/L	0.5	0	45.45	75	
			Aromatic	Toluene	µg/L	0.5	0.08471593578	45.45	80
		Ethylbenzene		µg/L	0.5	0.00777322061	45.45	80	
		m/p-xylene		µg/L	1	0.01852672036	90.9	80	
		o-xylene		µg/L	0.5	0.00756518480	45.45	79	
		Polycyclic		Naphthalene (VOC)*	µg/L	0.5	0.04432040956	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)		µg/L	-	10.18784282117	-	107
			d8-toluene (Surrogate)		µg/L	-	8.65620172231	-	121
			Bromofluorobenzene (Surrogate)		µg/L	-	9.47591296426	-	108
		Totals	Total BTEX		µg/L	3	0	-	-

Volatile Petroleum Hydrocarbons in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%	
SE251547.001	LB287101.024	TRH C6-C10	µg/L	50	12.67352300303	946.63	67	
		TRH C6-C9	µg/L	40	12.82555553747	818.71	67	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.18784282117	-	107
			d8-toluene (Surrogate)	µg/L	-	8.65620172231	-	121
			Bromofluorobenzene (Surrogate)	µg/L	-	9.47591296426	-	108
		VPH F	Benzene (F0)	µg/L	0.5	0	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	12.67352300303	639.67	66

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 end of this report for failure reasons.

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here : https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf

- * 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.
- 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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