68-80 Banks Avenue, Pagewood NSW

Homes NSW

Preliminary and Detailed Site Investigation

69149 | 169431 (Rev 3)

23 October 2025

We acknowledge the Traditional Custodians of Country throughout Australia and their connection to land, sea and community.

We pay our respect to Elders past, present and emerging and in the spirit of reconciliation we commit to working together for our shared future where every person is respected, valued and has strong sense of belonging.

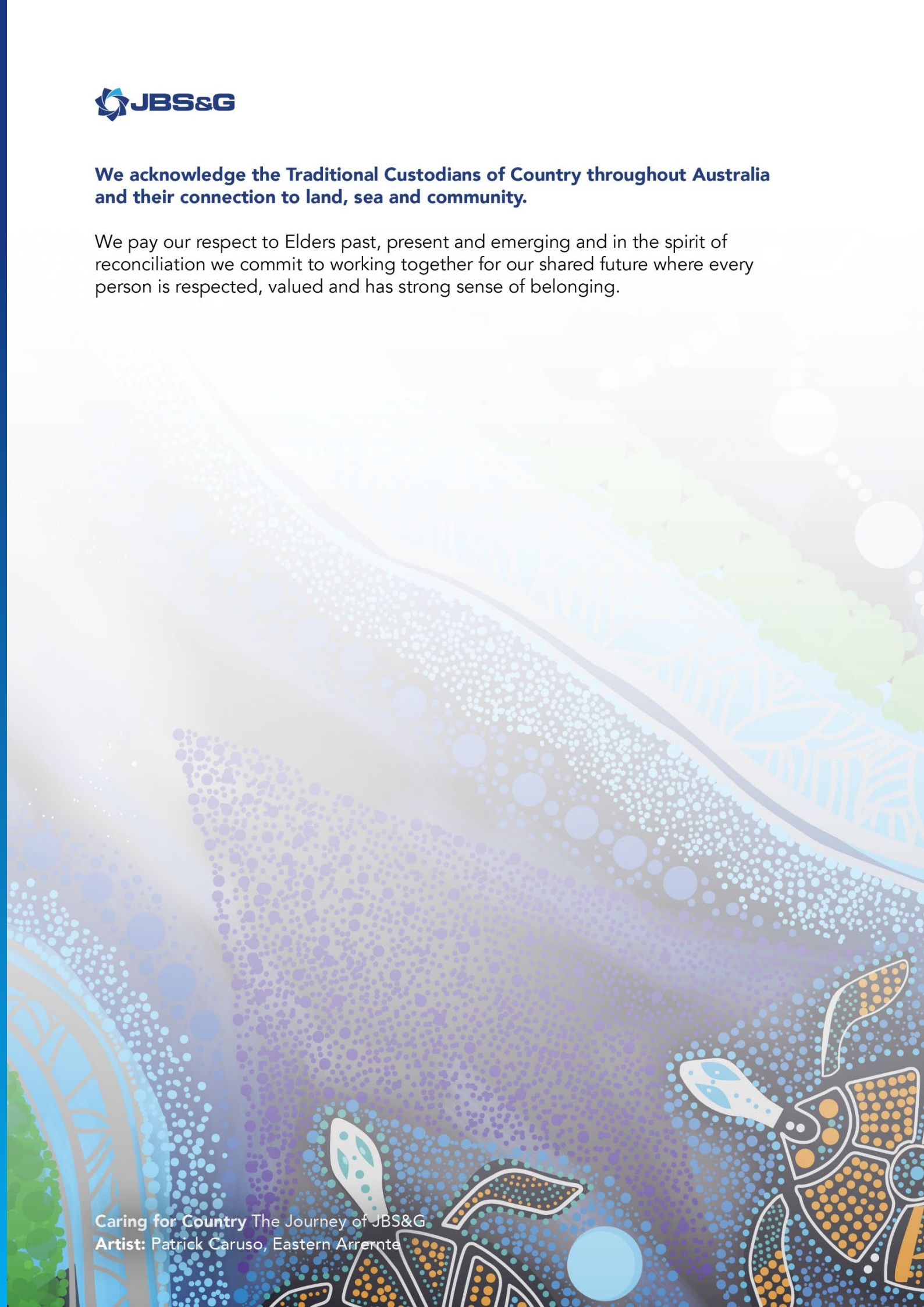

Table of Contents

List of Tables

List of Figures

Appendices

Abbreviations

Term	Definition
ACM	Asbestos Containing Materials
AEC	Areas of Environmental Concern
AHD	Australian Height Datum
AF/FA	Asbestos Fines/Fibrous Asbestos
AQ	Asbestos Quantification
Bayside	Bayside Council
bgs	Below ground surface
BSBs	Botany Sand Beds
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CLM Act	Contaminated Land Management Act 1997
COC	Chain of Custody
COPC	Contaminants of Potential Concern
CSM	Conceptual Site Model
DA	Development Application
DSI	Detailed Site Investigation
DTW	Depth to water
DP	Deposited Plan
DO	Dissolved Oxygen
DQI	Data Quality Indicators
DQO	Data Quality Objectives
EC	Electrical conductivity
EIL	Ecological Investigation Levels
Envirolab	Envirolab Services Pty Ltd
EPA	NSW Environment Protection Authority
ESLs	Ecological Screening Levels
Eurofins	Eurofins | mgt
GSW	General Solid Waste
ha	Hectare
HAFF	Housing Australia Future Fund
HFA	Hollow Flight Auger
HILs	Health Investigation Levels
HSLs	Health Screening Levels
JBS&G	JBS&G Australia Pty Ltd
LOR	Limit of Reporting
LFAI	Loose-fill Asbestos Insulation Register
NATA	National Association of Testing Authorities

Term	Definition
NEPC 2013	National Environment Protection Council 2013
NEPM	National Environment Protection Measure
NEMP	National Environmental Management Plan
NHMRC	National Health and Medical Research Council
OCP	Organochlorine Pesticides
PARCCS	Precision, Accuracy, Representativeness, Comparability, Completeness and Sensitivity
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PFAS	Per and polyfluoroalkyl substances
PID	Photoionisation Detector
POEO Act	Protection of the Environment Operations Act 1997
PSI	Preliminary Site Investigation
PSM	Pells Sullivan Meynink
QA/QC	Quality Assurance/Quality Control
RAP	Remediation Action Plan
RPD	Relative Percentage Difference
RSW	Restricted Solid Waste
SAQP	Sampling Analytical and Quality Plan
SD	Standard Deviation
SEPP R&H	State Environmental Planning Policy (Resilience and Hazards)
SEARs	Secretary's Environmental Assessment Requirements
SFA	Solid Flight Auger
SSDA	State Significant Development Application
SWL	Standing water level
TRH	Total Recoverable Hydrocarbons
UCL	Upper Confidence Limit
VENM	Virgin Excavated Natural Material
VOC	Volatile Organic Compounds

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Homes NSW (the client) to complete an environmental Preliminary and Detailed Site Investigation (PSI and DSI) in support of a State Significant Development Application (SSDA) submission for the properties located at 68-80 Banks Avenue, Pagewood NSW (the site). The site is legally recognised as Lots 1 to 17 in deposited plan (DP) 35180, and Lot 1 in DP527564, and has an area of approximately 9,260 m^2. The site location and site layout are shown in **Figure 1** and **Figure 2** respectively.

The site currently comprises low density residential housing zoned R3 Medium Density Residential, including five two- to three-storey walk-up buildings. Homes NSW has identified that the site could be redeveloped to include approximately 84 social housing dwellings and 140 private market dwellings within three 7-8 storey residential flat buildings. The target of 84 social dwellings is proposed to support a Housing Australia Future Fund (HAFF) application.

The client has requested geotechnical and environmental services to support a Planning Submission to meet Secretary's Environmental Assessment Requirements (SEARs), including the requirements of Chapter 4 Remediation of Contamination under *State Environmental Planning Policy (Resilience and Hazards) 2021* (SEPP R&H 2021). Given the SEARs requirements as part of the accelerated assessment pathway, the Preliminary Site Investigation (PSI) was completed in conjunction with a Detailed Site Investigation (DSI) to address the environmental assessment component. Pells Sullivan Meynink (PSM) was subcontracted by JBS&G to complete the geotechnical assessment and provide a separate report.

The objective of the PSI and DSI is to evaluate whether the site is suitable, or can be made suitable, for the proposed medium to high density residential development with gardens/accessible soils (HIL-A, NEPC 2013), to satisfy the SEARs requirements in support of the SSDA.

To achieve the objective, the investigation included review and collation all available existing site history and environmental setting data to prepare a conceptual site model with consideration to the proposed land uses; and implement site investigations and a laboratory analysis program to obtain further data.

Based on a review of council records, aerial photographs and other publicly available information, the site was identified as vacant from the earliest available records until the 1970s, when the current residential buildings were constructed. Potentially contaminating activities relate predominantly to the possible introduction of fill to create site levels prior to and during development of the site and adjacent main roads. Potentially contaminating commercial/industrial activities are generally downgradient of the site.

The intrusive investigation included sampling at 21 borehole locations, and installation and sampling at a total of 3 groundwater monitoring wells. Selected soil and groundwater samples were analysed for identified potential contaminants of concern (COPCs) including asbestos in soil, heavy metals, petroleum hydrocarbons (TRH/BTEX), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), per and

Based on the scope of the work undertaken, and subject to the limitations in **Section 11**, it is considered that the site can be made suitable for the proposed medium to high density residential development with gardens/accessible soils, following the implementation of a Remedial Action Plan (RAP).

Asbestos and lead were identified in fill materials at the site exceeding site assessment criteria. It is recommended that a RAP be prepared to support the redevelopment, documenting the procedures and activities required to address soil issues such that the site can be demonstrated as having been made suitable for the proposed land use.

Further consideration should be given to potential requirements for temporary dewatering during construction activities and associated off-site disposal of water with regard to PFAS in addition to standard construction requirements (sediment flocculation, pH adjustment, etc).

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by Homes NSW (the client) to complete an environmental Preliminary and Detailed Site Investigation (PSI and DSI) in support of a State Significant Development Application (SSDA) submission for the properties located at 68-80 Banks Avenue, Pagewood NSW (the site). The site is legally recognised as Lots 1 to 17 in deposited plan (DP) 35180, and Lot 1 in DP527564, and has an area of approximately 9,260 m^2. The site location and site layout are shown in **Figure 1** and **Figure 2** respectively.

The site currently comprises low density residential housing zoned R3 Medium Density Residential, including five two- to three-storey walk-up buildings. The site is bound by Jellicoe Park to the east, and Bonnie Doon Golf Course to the west (opposite side of Banks Avenue). Surrounding the site to the north and south are single density dwellings within the R2 Low Density Residential zone.

Homes NSW has identified that the site could be redeveloped to include approximately 84 social housing dwellings and 140 private market dwellings within three 7-8 storey residential flat buildings. The target of 84 social dwellings is proposed to support a Housing Australia Future Fund (HAFF) application.

The client has requested geotechnical and environmental services to support a Planning Submission to meet Secretary's Environmental Assessment Requirements (SEARs), including the requirements of Chapter 4 Remediation of Contamination under *State Environmental Planning Policy (Resilience and Hazards) 2021* (SEPP R&H 2021). Given the SEARs requirements as part of the accelerated assessment pathway, the Preliminary Site Investigation (PSI) was completed in conjunction with a Detailed Site Investigation (DSI) to address the environmental assessment component. Pells Sullivan Meynink (PSM) was subcontracted by JBS&G to complete the geotechnical assessment and provide a separate standalone report.

This report has been completed in accordance with guidelines made or approved by the NSW Environment Protection Authority (EPA) including the *National Environment Protection (Assessment of Site Contamination) Amendment Measure* (NEPC 2013[1]).

1.2 Objectives

The objective of the PSI and DSI is to evaluate whether the site is suitable, or can be made suitable, for the proposed medium to high density residential development with gardens/accessible soils (HIL-A, NEPC 2013), to satisfy the SEARs requirements in support of the SSDA.

1.3 Scope of Work

To achieve the objective of the investigation, the following scope of works was conducted:

- A review of available site history and background information to identify potential areas of environmental concern (AECs) and associated contaminants of potential concern (COPC);
- A review of the environmental setting including topography, geology, hydrology, and hydrogeology of the site and surrounding areas;
- Establishment of data quality objectives (DQOs) and a sampling, analytical and quality plan (SAQP) in accordance with NEPC (2013) procedures to guide collection of field and laboratory analytical data;
- A detailed site inspection to identify potential AECs and confirm desktop findings;

[1] *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)*. National Environment Protection Council (NEPC 2013)

- Completion of an intrusive investigation program including field screening, sampling and laboratory analysis of soils and groundwater;
- Data analysis, including comparison of field screening/observational and laboratory analytical data against assessment thresholds obtained from regulatory guidance;
- Development and documentation of a conceptual site model (CSM) based on the available information; and
- Preparation of this PSI/DSI report in general accordance with relevant EPA-made or approved guidelines.

2. Site Condition and Surrounding Environment

2.1 Site Identification

The site location is shown on **Figure 1** and the site layout is shown on **Figure 2**. The site details are summarised in **Table 2.1** and described in detail in the following sections.

Table 2.1: Summary Site Details

Lot/DP	Lots 1 to 17 DP35180 and Lot 1 DP 527564
Address	68 Banks Avenue, Pagewood NSW 2035 (Lots 1 to 4 DP35180) 70-78 Banks Avenue, Pagewood NSW 2035 (Lots 5 to 13 DP35180, and Lot 1 DP527564) 80 Banks Avenue, Pagewood NSW 2035 (Lots 14 to 17 DP35180)
Local Government Authority	Bayside Council
MGA Coordinates (approximate centre of site, GDA2020 MGA56)	Easting: 335935.41 Northing: 6243366.41
Site Zoning	R3 – Medium Density Residential
Current Use	Medium density residential
Proposed Use	Medium density residential
Site Area	9,260 m^2

2.2 Site Description

A detailed site inspection was completed by one of JBS&G's qualified and experienced environmental consultants on 11 June 2025. Relevant site observations are discussed below, and a photographic log is included in **Appendix A**. The current site layout and features are shown in **Figure 2**.

At the time of the site inspection, the site was in use for residential purposes. Five two storey dwellings constructed of brick were located across the site. Two asphalt paved parking areas were located towards the central northern, and central southern portions of the site, which had minor staining associated with spills/leaks from vehicles. The two parking areas were accessed via Banks Avenue.

The northern, eastern, southern and western boundaries primarily consisted of grass covered surfaces with concrete footpaths leading to the buildings, garden beds and common areas. Shrubs and small flowering plants were observed within garden beds and large trees were present across the site. All vegetation appeared to be thick and healthy. Low metal fences separating the site from the adjoining public open space were located along the east site boundary, whilst the remainder of the site was unfenced. The common areas along the eastern boundary were observed to include several small toilet blocks and clotheslines for the tenants.

No standing surface water was observed at the site. No obvious indicators of previous cut to fill activities were noted (e.g. retaining walls, mounding), with site levels noted to be consistent with surrounding land. The site was relatively flat with a general downward southwestern slope.

A fragment of asbestos containing material (ACM) was identified on the site surface, in the southern portion of the site near sample location BH19 (see **Figure 3**).

With the exception of those noted above, no other indicators of contamination, or the storage/use of chemicals that may result in contamination were observed at the site.

2.3 Land Use

Surrounding land uses at the time of the site inspection are described following:

- North: Park Parade, beyond which was low density residential areas, and public and private recreational spaces including Rowland Park, and UNSW David Phillips Sport Field (approximately 500 m from site);
- East: Jellicoe Park, beyond which was a mix of low density residential areas, commercial properties and public recreation spaces. It is understood that historically asbestos (as ACM) in fill material has been identified within Jellicoe Park that was subsequently contained on-site below a physical barrier with an ongoing environmental management plan (EMP) managed by Council;
- South: Park Parade beyond which was a mix of low to high residential areas, commercial properties, Westfield Eastgardens and Mutch Park to the southwest of the site; and
- West: Banks Avenue beyond which was Bonnie Doon Golf Course, small patches of low density residential areas and the Botany Dams.

2.4 Topography

Review of topographic information obtained from NSW SDT Explorer (2025[2]) and Lotsearch data (Lotsearch 2025, **Appendix B**) indicated that site is situated within in an elevation that ranges from approximately 20 to 24 m Australian Height Datum (AHD), with generally flat to gentle slopes occurring downwards toward the southwest. The surrounding land in the vicinity of the site generally sloped gently to the south and southwest, towards Botany Bay, approximately 3.4 km southwest of the site.

2.5 Geology and Soil

Review of the 1:100 000 Sydney Geological Survey Sheet (1983[3]) indicates that the site is underlain by Holocene aged medium to fine-grained "marine" sand with podsols. This unit is commonly referred to as the Botany Sand Beds (BSBs) and is comprised of unconsolidated to semi-consolidated permeable sands derived from marine deposited and aeolian reworked coastal sand dunes. The sands, being part of the Tuggerah Landscape Group are fine to medium-grained quartz marine sands with minor shell fragments and podzols. The sand is interspersed with lenses of layers of peat, peaty sands, silts and clays, which become more common in the lower part of the sequence. The BSBs can be up to 30 - 60 m thick and are generally underlain by Hawkesbury Sandstone. The limitations of the landscape include extreme wind erosion hazard, non-cohesive permeable soil, very low soil fertility, localised flooding and permanently high water tables.

2.6 Acid Sulfate Soils

A review of the *Botany Bay Acid Sulfate Soil Risk Map* (DLWC 1997[4]), the site lies within an area of 'no known occurrences of acid sulfate soil (ASS) materials'. Based on review of geology maps, soil maps, site topography and site observations it is considered unlikely that acid sulfate soil conditions would be present on-site. In addition, given that the nearest area of high probability of acid sulfate soil occurrence is greater than 500 m downgradient of the site, there is no requirement for consideration of the potential impact of proposed works on areas of known ASS occurrence. As such, no further consideration of requirements for the management of acid sulfate soil is required.

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[2] *New South Wales Spatial Digital Twin Explorer* 2025 v1.1 (NSW SDT Explorer 2025) NSW Government Website: https://portal.spatial.nsw.gov.au/explorer/index.html

[3] *Sydney 1:100 000 Sydney Geological Map Sheet 9130*, Clark, N.R. and Jones, D.C. 1983, 1st edition. Geological Survey of New South Wales, Sydney

[4] *Acid Sulfate Soil Risk Map – Edition Two, Botany Bay*. Department of Land and Water Conservation, published December 1997 (DLWC 1997)

2.7 Hydrology

Review of NSW SDT Explorer (2025) indicated that whilst the closest surface water body is Mill Stream and Botany Dam approximately 620 m north and northwest of the site, this is cross gradient to the site and as such, the nearest downgradient water body is Botany Bay approximately 3.4 km to the south of the site.

The site comprises a combination of grassed areas, mulched garden beds and sealed concrete surfaces in areas external to site structures. Precipitation falling onto the site in grassed areas is expected to infiltrate surface soils, at a rate reflective of the permeability of the underlying soils. Precipitation falling onto the sealed areas of the site, and excess water in periods of heavy or prolonged rainfall is expected to follow the topographic gradient and be collected by the site's stormwater drainage network and transferred to the regional stormwater network, that will flow toward the south and discharge ultimately within Botany Bay. Botany Bay is considered to be a sensitive marine receptor for the purposes of this assessment.

2.8 Hydrogeology

A search for registered groundwater bore information and site hydrogeology was undertaken by Lotsearch and records are included in **Appendix B**.

The site is within the Botany Sands aquifer as associated with the BSBs, which is described as a porous, extensive, highly productive aquifer. As consistent with the extensive historical use of the Botany Sands aquifer, a significant number of registered bores were identified in proximity to the site. A review of the Botany Groundwater Management Zones map (DPIE 2024[5]) indicates that the site is located beyond the restricted zones where groundwater cannot be extracted, being situated approximately 900 m north of the boundary of management Zone 1.

Review of the groundwater bore search indicated that there are a significant amount of registered bores within a 2 km radius of the site, with the majority registered for either water supply, monitoring, or commercial/industrial purposes. The relevant information for bores within a 250m radius of the site are summarised in **Table 2.2**. The bores within a 250 m radius of the property were generally completed to depths of between 7.00 and 37.40 m below ground surface (mbgs).

Two main groundwater systems exist in the vicinity of the site and more broadly across the BSBs:

- A shallow unconfined to semi-confined aquifer system resident within the unconsolidated sediments of the BSBs; and
- A deep confined groundwater system resident in the fractures / porous Hawkesbury Sandstone / Shale which form the base of the Botany Basin aquifer.

The predominant lithology encountered was sand and the standing water levels (SWL) was reported at depths between 1.00 and 11.50 m bgs, comprising groundwater flow within the upper aquifer. Groundwater flow is anticipated to occur on a regional level toward the south and southwest, however may be locally influenced by groundwater extraction associated with irrigation bores within the golf course to the west and potentially within Jellicoe Park to the east of the site.

[5] *Temporary Water Restrictions Order for the Botany Sands Groundwater Source 2024*. Department of Planning, Industry and Environment dated June 2024 (DPIE 2024)

Table 2.2: Registered Groundwater Bore Search Summary

Bore ID	Use	Standing Water Level (m bgs)	Depth (m)	Direction & Distance from Site	Lithology
GW062486	Other	-	20.00	South – 34 m	-
GW101680	Water Supply	-	7.93	South – 69 m	0.00m-7.93m Unconsolidated Sand
GW104993	Water Supply	1.00	10.00	Northeast – 87 m	0.00m-10.00m Sand
GW104989	Water Supply	1.00	10.00	South – 90 m	0.00m-10.00m Sand
GW016953	Other	11.50	30.00	Southwest – 104 m	0.00m-4.50m Light Brown Sand 4.50m-5.00m Brown Sand and Wood 5.00m-8.60m Light Brown Sand 8.60m-9.40m Black Peat 9.40m-16.90m Light Brown Sand 16.90m-18.50m Black Peat 18.50m-22.70m Brown Silty Sand 22.70m-24.00m Black Peat 24.00m-26.50m Brown Peaty Sand 26.50m-30.00m Light Brown Sand
GW060242	Other	-	33.50	Northeast – 169 m	-
GW072238	Water Supply	-	10.00	Southeast – 186 m	0.00m-2.50m Sand 2.50m-3.50m Alluvium 3.50m-10.00m Sand
GW024037	Water Supply	-	7.10	Southeast – 189 m	0.00m-0.91m Sand Grey 0.91m-2.13m Sand Yellow 2.13m-2.74m Sand Hard Cemented 2.74m-7.16m Sand Yellow Water Supply
GW062054	Other	10.00	37.40	South – 190 m	0.00m-1.00m Overburden Topsoil 1.00m-40.00m Sand White Some Slightly Peat Water Supply
GW024372	Water Supply	-	7.30	Southeast – 198 m	0.00m-1.21m Sand Grey 1.21m-5.48m Sand Cream 5.48m-7.31m Sand White Water Supply
GW072905	Water Supply	-	10.00	Northeast – 236 m	-

2.9 Meteorology

A review of average climatic data for the nearest Bureau of Meteorology monitoring location (Sydney Airport AMO[6]) indicates the site is located within the following meteorological setting:

- Average minimum temperatures vary from 7.4 °C in July to 19.2 °C in February;
- Average maximum temperatures vary from 17.2 °C July to 26.7 °C in January;
- The average annual rainfall is approximately 1096.5 mm with rainfall greater than 1 mm occurring on an average of 96.3 days per year; and
- Monthly rainfall varies from 59.8 mm in September to 124.1 mm in June with the wettest periods occurring on average in February to June.

[6] http://www.bom.gov.au/climate/averages/tables/cw_066037.shtml, Australian Government, Bureau of Meteorology, Product IDCJCM0028 Prepared at Thu 08 May 2025, and accessed by JBS&G 8 May 2025

3. Site History Summary

3.1 Aerial Photographs

Aerial photographs from regular intervals between 1930 and 2025 were provided by Lotsearch and included in **Appendix B**. A summary of the findings are provided in **Table 3.1** below.

Table 3.1: Summary of Historical Aerial Imagery Review

Year	Observations
1930	**Site and surrounds**: The site and surroundings appeared to be vacant and cleared of vegetated bushland, with variable density of open grassland. Several scattered tracks were located to the north, west and south of the site that appear to be the early formations of the current roads. Residential properties were located to the northeast and southeast of the site.
1943	**Site**: Cleared, vacant land with scattered vegetation regrowth was visible across the site. **Surrounds**: Several additional residential properties had been established to the north/northeast and south/southeast of the site. Jellicoe Park (comprising a sports oval) and Bonnie Doon Golf Course were also apparent east and west of the site, respectively. Various roadways surrounding the site including Banks Avenue, Park Parade, and Heffron Road had been established. Potential earthworks and storage containers were visible beyond Heffron Road to the south of the site.
1951	**Site**: The site appeared unchanged from the previous aerial photograph. **Surrounds**: Additional residential properties had been established to the south and northeast of the site. Commercial or light industrial activities were apparent on land beyond Heffron Road to the south.
1955	**Site**: The site appeared unchanged from the previous aerial photograph. **Surrounds**: A carpark has been established beyond Heffron Road south of the site supporting a large commercial/industrial facility. The remaining surrounding area appeared relatively unchanged from the previous aerial photograph.
1961	**Site**: The site appeared relatively unchanged from the previous aerial photograph, with some vegetation regrowth in the centre of the site. **Surrounds**: The commercial/industrial facility beyond Heffron Road to the south of the site appeared to have been further developed. The remaining surrounding area appears relatively unchanged from the previous aerial photograph.
1965	**Site**: The site appeared unchanged from the previous aerial photograph. **Surrounds**: The surrounding area appeared relatively unchanged from the previous aerial photograph.
1970	**Site**: Five medium density residential buildings had been established across the site (the current site buildings), with concrete sealed and/or grass covered ground observed in between the structures, and small site structures/sheds adjoining the buildings. **Surrounds**: Directly to the west of the site, Banks Avenue has been constructed. All current roads surrounding the site appeared to have been the subject of kerb/guttering works. Directly east of the site within northern portion of Jellicoe Park, there appeared to be small soil stockpiles.
1978	**Site**: The site appears unchanged from the previous aerial photograph apart from indications of scattered trees within landscaped areas of the site. **Surrounds**: The small stockpiles in Jellicoe Park appeared to have been removed or relocated. Jellicoe Park had been converted from a sports oval with cricket pitches, to soccer fields. The surrounding area was otherwise relatively unchanged since the 1970 aerial photograph.
1982	**Site and surrounds**: The site and surrounds appeared relatively unchanged from the previous aerial photograph, however the sports field marking s in Jellicoe Park were no longer apparent.

Year	Observations
1986	**Site**: The site appears unchanged from the previous aerial photograph. **Surroundings**: The remaining car park beyond Heffron Road has been demolished and now appears to be grassed open space. Directly east of the former car park is a concrete sealed surface and a large commercial/industrial building. The remaining surrounding area appears relatively unchanged from the previous aerial photograph.
1991	**Site**: The site appeared unchanged from the previous aerial photograph apart from increases in the tree canopy within the site. **Surroundings**: A roundabout had been constructed in the intersection of Heffron Road and Banks Avenue. The Bonnie Golf Course appeared to have been refurbished and/or irrigated along the fairways. The remaining surrounding area appeared relatively unchanged from the previous aerial photograph.
1994	**Site**: There appeared to be a newly laid concrete pathway within the backyard of the central residential property, likely associated with nearby clotheslines, however this has been inferred from review of the 2014 aerial. The remaining site appeared unchanged from the previous aerial photograph. **Surrounds**: Jellicoe Park has had a paved track installed around the outside of the park. One of the commercial/industrial properties to the southwest of the site (beyond Heffron Road) appeared to have been renovated.
2001	**Site:** The site appeared relatively unchanged from the previous aerial photograph. **Surrounds**: There are some minor bare patches of sand present within Jellicoe Park. The remaining surrounding area appeared relatively unchanged from the 1994 aerial photograph.
2014	**Site**: The site appeared unchanged from the previous aerial photograph. **Surrounds**: A new playground had been constructed in the corner of Jellicoe Park to the east of the site. New commercial/industrial buildings had been constructed to the southwest of Heffron Road. The grass covered parcel of land (formerly a car parking area) within the commercial/industrial facility located beyond Heffron Road appeared to now comprise a storage yard. The remaining surrounding area appeared relatively unchanged from the previous aerial photograph.
2025	**Site**: The site appeared relatively unchanged from the previous aerial photograph. **Surroundings**: A shade structure had been constructed covering the playground in Jellicoe Park to the east of the site. New sand bunkers have been constructed on the Bonnie Golf Course, west of the site. The roundabout located at the intersection of Heffron Road and Banks Avenue had been removed and now appeared to be a four-way intersection. New residential development blocks were observed beyond Heffron Road to the south of the site.

3.2 Historical Land Title Records

Representative historical land titles were obtained for Lot 3, 11 and 16 of DP35180 and Lot 1 of DP527564. The historical title details are summarised below in **Table 3.2**, and provided in **Appendix C**.

Table 3.2: Summary of Historical Title Search

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
Lots 3, 11 and 16 DP 35180		
	The early Title to these Lands is Crown Title	
18.12.1925	Reserved from Sale or Lease	(Government Gazette 18.12.1925 Folio 5688)
26.02.1947	# The Housing Commission of New South Wales Now	(Government Gazette 21.031947 Folio 644) Volume 5965 Folio 1

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
(1947 to Date)	# New South Wales Land and Housing Corporation (Resumed for Housing purposes)	Now Auto Consol 5965-1
Lot 1 DP 527564		
18.08.1967	This part was formerly a Crown Road subsequently resumed in 1967	
09.08.1967 (1967 to Date)	# The Housing Commission of New South Wales Now # New South Wales Land and Housing Corporation (Resumed for Housing purposes)	(Government Gazette 18.08.1967 Folio 2984) Volume 10771 Folio 182 Now 1/527564

A review of historical title information indicates that the site was formerly Crown Title and Crown Road. Between 1947 and 1964, the entire site was acquired by New South Wales Land and Housing Corporation formerly The Housing Commission of New South Wales. As such, the site was considered likely vacant public open space prior to its initial development for the current public housing use.

3.3 Council Records

Section 10.7 (2) & (5) Planning Certificates for the site were issued for 68, 74 and 80 Banks Avenue, Pagewood (the entire site) from Bayside Council and are presented in **Appendix C**.

The certificates included the following information as held by Bayside Council regarding the site as relevant to this investigation:

- The land is zoned R3 Medium Density Residential;
- Permitted land uses under zoning:
    - Without consent:
        - Home-based child care; Home occupations
    - With consent:
        - Attached dwellings; Bed and Breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Dual Occupancies; Dwelling houses; Educational establishments; Environmental protection works; Exhibition homes; Flood mitigation works; Group homes; Health service facilities; Home businesses; Home industries; Hostels; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Recreation areas; Respite day care centres; Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing; Tank-based aquaculture; Water supply systems
    - Prohibited:
        - Any other development not specified in item permitted without/with consent
- The land is not affected by an item of environmental heritage or proposed environmental heritage item, although Jellicoe Park directly east of the site is a heritage area of local significance;
- The land or part of the land is within the flood planning area and is subject to flood related development controls. The Council suggests the site may be affected by the 1% annual exceedance probability (AEP) (1 in 100 year) flood event;

- The land is not affected by an adopted policy that restricts the development of the land because of the likelihood of landslip, bushfire, tidal inundation, subsidence, acid sulfate soils, contamination, aircraft noise, salinity, coastal hazards or sea level rise;
- The land does not include or comprise critical habitat and is not within a conservation area;
- The land does not have residential premises listed on the register of residential premises that contain or have contained loose-fill asbestos insulation;
- Within the meaning of the Contaminated Land Management Act 1997 (CLM Act):
    - The land is not significantly contaminated land;
    - The land is not subject to a management order;
    - The land is not subject to an approved voluntary management proposal;
    - The land is not subject to an ongoing maintenance order; and
    - The land is not subject to a site audit statement.

3.4 EPA Records

A search of the NSW EPA's database was undertaken for the property and immediate surroundings (**Appendix B**). The search comprised a review of the following:

- NSW EPA *Protection of the Environment Operations Act 1997* (POEO Act) public register of licences, applications and notices (maintained under Section 308 of the POEO Act);
- NSW EPA contaminated land public register of record of notices (under Section 58 of the Contaminated Land Management (CLM) Act 1997);
- NSW contaminated sites notified to the EPA (under Section 60 of the CLM Act); and
- EPA's public Per- and polyfluoroalkyl substances (PFAS) register.

No prevention, clean-up or prohibitions notices and no transfer, variation, suspension, surrender or revocation of an environment protection licence (EPL) has been issued under the POEO Act for the site. In the surrounding area, an EPL licence was historically issued to British American Tobacco Australia Limited located 122 m south and downgradient of the site (the former commercial/industrial property south of Heffron Road) for hazardous, industrial or group A waste generation or storage. A s.96 Prevention notice was issued to British American Tobacco Australia Limited on 8 October 2009 relating to a number of odour and noise complaints made by the local community.

A search of the EPA's public contaminated land register did not identify notices issued under the Section 58 of the CLM Act for the property or immediate surroundings.

The property has not been notified to the EPA under section 60 of the CLM Act with regards to contamination. The following properties in proximity to the site were notified to the EPA:

- The former British American Tobacco Australia site to the south (downgradient) located at 130-150 Bunnerong Road, Eastgardens, is listed on the NSW EPA contaminated sites register as other industry with regulation under CLM Act not required; and
- A Coles Express service station 400m southeast of the site (downgradient) at 299 Bunnerong Parade, Maroubra, is listed on the NSW EPA contaminated sites register with regulation under CLM Act not required.

A search of the EPA's PFAS register has identified that the property is not under investigation by the EPA with regard to PFAS contamination. Botany Industrial Park located approximately 906 m south of the site is listed as 'under investigation by the EPA with regard to PFAS contamination'. However, this is downgradient of the

site and therefore is considered to not pose a potential off-site migration risk to the site. It is noted that the review completed by Lotsearch (**Appendix B**) identified the Randwick Barracks as part of a defence PFAS investigation program. This property is located approximately 964 m northeast of the site (considered to be cross-gradient).

3.5 Australian and State Heritage Registers

A search of the Australian and NSW Heritage database was undertaken, and records are included in **Appendix B**.

The search of Australian Heritage database identified no items of heritage significance affecting the site.

The search of NSW Heritage database identified the Botany Water Reserves located northwest of the site. Botany Water Reserves was historically used as part of Syndey's water supply system. It is now a reserve parkland and golf course, including land to the north-west of the site beyond Bonnie Doon Golf Course.

3.6 NSW Fair Trading Loose Fill Asbestos Insulation Register

A search of the Fair Trading NSW Loose-fill Asbestos Insulation Register (NSW Government, 2025[7]) for the property address indicates that structures previously situated within the property are not currently registered as being affected by the presence of LFAI.

3.7 Naturally Occurring Asbestos Map

A search of the NSW Resources and Geoscience Natural Occurring Asbestos database (Lotsearch, **Appendix B**) for the property has indicated the site has no presence of naturally occurring asbestos.

3.8 Integrity Assessment and Summary of Site History

Based on a review of council records, aerial photographs and other publicly available information, the site was identified as vacant from the earliest available records until the current buildings on the site were constructed during the period 1965 and 1970. The site was transferred to the New South Wales Land and Housing Corporation (formerly The Housing Commission of New South Wales) between 1947 and 1967.

Based on the range of sources and the consistency of the historical information, it is considered that the historical assessment has an acceptable level of accuracy with respect to potentially contaminating activities historically occurring at the site. These appear to relate predominantly to the possible introduction of fill to create site levels prior to and during development of the site and adjacent main roads and potential impacts associated with the current development.

Potentially contaminating commercial/industrial activities are generally downgradient of the site. However, given the public recreational facilities to the east and west of the site, there is the potential for localised groundwater impacts as associated with application of fertilisers etc that may have implications for groundwater quality.

[7] Loose-fill Asbestos Insulation Register, NSW Government, 2025, accessed 8 May 2025: https://www.fairtrading.nsw.gov.au/loose-fill-asbestos-insulation-register

4. Conceptual Site Model

4.1 Essential Elements of Conceptual Site Model

NEPC (2013) identifies a Conceptual Site Model (CSM) as a representation of site-related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The development of a CSM is an essential part of all site assessments.

NEPC (2013) identified the essential elements of a CSM as including:

- Known and potential sources of contamination and contaminants of concern including the mechanism(s) of contamination.
- Potentially affected media (soil, groundwater, vapours etc.).
- Human and ecological receptors.
- Potential and complete exposure pathways; and
- Any potential preferential pathways.

4.2 Potential Areas and Substances of Environmental Concern

Based on the history and observations made during the JBS&G inspection of the site, areas of environmental concern (AECs) have been identified and are presented in **Table 4.1**.

Table 4.1: Areas of Environmental Concern (AECs) and Contaminants of Potential Concern (COPC)

Area of Environmental Concern (AEC)	Primary Contaminants of Potential Concern (COPC)
Imported and/or reworked fill materials of unknown origin used to fill and create current site levels	Asbestos, heavy metals, total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene and xylene (BTEX), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), organochlorine pesticides (OCPs), and per- and polyfluoroalkyl substances (PFAS)
Impacts as associated with the current residential structures, inclusive of hazardous building materials and property maintenance activities, storage and use of miscellaneous items including pesticides, petroleum based products, household/garden chemicals.	Heavy metals, OCPs, PCBs, TRH/BTEX and asbestos
Potential for impacts to groundwater as a result of migration of contaminants associated with maintenance of adjoining public recreational facilities	Nitrogen compounds, heavy metals, PFAS etc.

4.3 Potentially Contaminated Media

Potentially contaminated media comprise:

- Surface/fill soils;
- Natural soils/bedrock;
- Groundwater; and
- Soil Vapour.

A review of historical site information indicated that the site had undergone minimal changes until 1970, when the current site buildings were constructed. Prior to 1970 the majority of the site remained vacant unsealed vegetated ground.

There is the potential for fill material of unknown composition and/or origin to have been imported to site to create site levels. In addition there is the potential for contamination of the surface soils (fill and/or natural) to have occurred as a result of past site construction activities.

Where surface soil/fill materials impacted with chemical-based contaminants are identified, there is a potential the impact may have migrated laterally and vertically below the fill material into the natural soil profile and/or bedrock.

With the exception of asbestos, each of the COPCs (identified in **Table 4.1** for the site) has the potential to migrate from shallow soils into groundwater, particularly given the sandy/porous nature of the soils. Registered bores within a 500 m radius of the site indicate that the groundwater level is likely to be relatively shallow (1.00 and 11.80 m bgs). As such, in the event that leachable contaminants are present within soils, there is potential for groundwater impacts. Natural material may also be impacted by groundwater that has migrated from an off-site contamination source (laterally and vertically).

Volatile contaminants (TRH and other volatile organic compounds) have the potential to result in soil vapour impacts. However, given the absence of significant former or current contaminating activities, the potential for risk from soil vapour is considered to be low. In the event that significant soil and/or groundwater contamination is identified, further consideration of the potential for soil vapour impacts would be required to be undertaken.

4.4 Potential for Migration

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

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

The potential contaminants of concern identified as part of the site history review and site inspection are generally in solid (e.g. heavy metals, PAH, asbestos, etc) or liquid (e.g. TRH/BTEX, PFAS, OCPs and PCBs) form.

As the site is primarily surfaced with concrete hardstand with pockets of grass covered ground, the potential for windblown dust migration of contamination from the site is generally low.

There is potential for contamination migration via surface water movement, infiltration of water and subsequent migration through the soil profile given the anticipated relatively shallow depth to groundwater at the site. However, considering the current residential site use, there is a low potential for significant contamination of groundwater due to site activities.

If volatile contaminants are present there is the potential for vapour migration, however their presence is considered to be unlikely.

4.5 Potential Exposure Pathways

Based on COPCs identified in various media, as discussed above, the exposure pathways for the site include:

- Potential dermal and oral contact to impacted soils as present at shallow depths and/or accessible by future shallow excavations; and/or

- Potential inhalation of airborne asbestos fibres and/or impacted dust particles generated from exposed ground surfaces/excavations during site redevelopment activities and future use of the site as associated with inground disturbance.

Potential exposure pathways relating to groundwater would be limited to any deep excavations where groundwater may be intersected, noting the low risk of groundwater impact. Vapour inhalation risk is also considered to be low, given the low potential for vapour impacts.

4.6 Potential Receptors

Potential receptors of environmental impact within the site include:

- Current and future users of the site including occupants and visitors who may potentially be exposed to COPCs through direct contact with impacted soils and/or inhalation of dusts/fibres/vapours associated with impacted soils;
- Excavation/construction/maintenance workers conducting activities at or in the vicinity of the site who may potentially be exposed to COPCs through direct contact with impacted soils/groundwater/surface water present within excavations and/or inhalation of dusts/fibres/vapours associated with impacted soils/groundwater; and/or
- Existing and/or future users/occupants of adjoining properties should contamination migrate from the site. This is anticipated to be limited to potential contaminant migration via windblown dusts / airborne fibres.

4.7 Preferential Pathways

For this assessment, preferential pathways have been defined as natural and/or man-made pathways that result in the preferential migration of COPC as either solid (sediments, dust, etc) or liquid (surface water, groundwater).

Man-made preferential pathways are likely present throughout the site, generally associated with areas of previously disturbed natural ground present beneath the existing ground surface and soils surrounding sewer, stormwater, or other below ground services infrastructure at the site. Fill materials and disturbed natural soil are anticipated to have a higher permeability than the underlying natural soils and/or bedrock and as such provide for preferential flow paths for the migration of contaminants, should they be present as associated with the site.

5. Sampling, Analysis and Quality Plan

5.1 Data Quality Objectives

Data quality objectives (DQOs) are statements that define the confidence required in conclusions drawn for data produced for a project, and which must be set to realistically define and measure the quality of data needed. DQOs were developed for the investigation, as discussed in the following sections.

5.1.1 State the Problem

The site has historically been used for medium density residential purposes and several potential areas of concern have been identified with respect to the potential for contamination on the site arising from the potential use of fill material to create current site levels, use of hazardous building material such as asbestos and lead-based paint in the site structures, and the (limited) storage of miscellaneous chemicals and materials on site. No previous contamination investigations are known to have been completed.

It is understood the site is proposed to be redeveloped for approximately 224 social and market dwellings within three 7-8 storey residential flat buildings and the PSI/DSI is required to confirm if the site is suitable, or can be made suitable, for the proposed development, to satisfy the SEARs requirements in support of an SSDA.

5.1.2 Identify the Decision

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017[8]), the following decisions must be made:

- Are there any unacceptable risks to likely future onsite receptors?
- Are there any issues relating to the local area background soil concentrations that exceed appropriate soil criteria?
- Are there any impacts of chemical mixtures?
- Are there any aesthetic issues present on the site?
- Is there any evidence of, or potential for, migration of contaminants from the site?
- Is there evidence of migration of imported media coming from an offsite source?
- Is a site management strategy required?

5.1.3 Identify Inputs to the Decision

Inputs identified to provide sufficient data to make the decisions nominated above include:

- Desktop review of historical and current site uses to identify areas of potential concern;
- Detailed site inspection/walkover;
- Physical observations and interpretation of potentially contaminated media through the collection of soil and groundwater samples;
- Development of appropriate assessment criteria for evaluation of soil and groundwater impacts;
- Laboratory analysis of soil and groundwater samples for COPCs; and
- Confirmation that data generated by sampling and analysis are of acceptable quality.

[8] *Contaminated Sites: Guidelines for the NSW Site Auditor Scheme, 3rd Edition*, NSW EPA, 2017 (EPA 2017)

5.1.4 Define the Study Boundaries

The study boundaries are limited to the site boundaries as described in **Section 2.1** and shown on **Figure 2**.

The vertical depth of the soil investigation was generally limited to approximately 1m, after encountering natural soils. However, where groundwater monitoring wells were installed the vertical limit of investigation was extended up to 10 m bgs.

Due to the project objectives, seasonality was not be assessed as part of this investigation. The data are therefore representative of the timing and duration of the current investigation (June 2025).

5.1.5 Develop Decision Rules

Analytical data for potentially contaminated media was assessed against NSW EPA approved criteria as identified in **Section 6**.

The decision rules adopted to answer the decisions identified in **Section 5.1.2** are summarised in **Table 5.1** following.

Table 5.1: Summary of Decision Rules

Decision Rules Required to be Made	Decision Rule
Are there any unacceptable risks to likely future onsite receptors?	Soil analytical data was compared against EPA made or approved criteria including but not limited to NEPC (2013). Statistical analyses of the data in accordance with relevant guidance documents was undertaken, if appropriate, to facilitate the decisions. The following statistical criteria was adopted with respect to soils: Either: the reported concentrations were all below the site criteria; Or: the 95% upper confidence limit (UCL) of the average concentration for each analyte was below the adopted site criterion; no single analyte concentration exceeded 250% of the adopted site criterion; and the standard deviation of the results was less than 50% of the site criterion. If the statistical criteria were not satisfied, the decision was **Yes**. If the statistical criteria stated above was satisfied, the decision was **No**.
Are there any issues relating to the local area background soil concentrations that exceed appropriate soil criteria?	If COPC concentrations in soils exceeded published background concentrations (NEPC 2013), the answer to the decision was **Yes**. Otherwise, the answer to the decision was **No**.
Are there any impacts of chemical mixtures?	Was there more than one group of contaminants present which increase the risk of harm? If there was, the answer to the decision was **Yes**. Otherwise, the answer to the decision was **No**.
Are there any aesthetic issues present at the site?	If there were any unacceptable odours or soil discolouration, or large quantities of non-hazardous inert material, the decision was **Yes**. Otherwise, the answer to the decision was **No**.

Decision Rules Required to be Made	Decision Rule
Is there any evidence of, or potential for, migration of contaminants from the site?	Based on assessment results, was there any evidence of, or the potential for, migration of unacceptable contaminant concentrations from the site, inclusive of impacts to surface and/or groundwater based on assessment of data against ecological investigation levels? If there was, the answer to the decision was **Yes**. Otherwise, the answer to the decision was **No**.
Is there evidence of migration of imported media coming from an offsite source?	Based on assessment results, was there any evidence of, or the potential for, migration of unacceptable contaminant concentrations from an offsite source, inclusive of impacts to surface and/or groundwater based on assessment of data against ecological investigation levels? If there was, the answer to the decision was **Yes**. Otherwise, the answer to the decision was **No**.
Is a site management strategy required?	Is the answer to any of the above decisions was Yes, then the decision is **Yes**. Otherwise, the decision is **No**.

5.1.6 Specific limits on Decision Rules

This step is to establish the decision maker's tolerable limits on decision errors, which are used to establish performance goals for limiting uncertainty in the data. Data generated during this project must be appropriate to allow decisions to be made with confidence.

Specific limits for this project have been adopted in accordance with the appropriate guidance from the NSW EPA, NEPC (2013) and standard JBS&G procedures for field sampling and handling.

To assess the usability of the data prior to making decisions, the data was assessed against predetermined date quality indicators (DQIs) for precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS parameters). The acceptable limit on decision error is 95% compliance with DQIs.

The pre-determined DQIs established for the project are discussed below in relation to the PARCCS parameters and are shown in **Table 5.2**.

- **Precision** – measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples.
- **Accuracy** – measures the bias in a measurement system. The accuracy of the laboratory data that are generated during this study is a measure of the closeness of the analytical results obtained by a method to the 'true' value. Accuracy is assessed by reference to the analytical results of laboratory control samples, laboratory spikes and analyses against reference standards.
- **Representativeness** – expresses the degree which sample data accurately and precisely represent a characteristic of a population or an environmental condition. Representativeness is achieved by collecting samples on a representative basis across the site, and by using an adequate number of sample locations to characterise the site to the required accuracy.
- **Comparability** – expresses the confidence with which one data set can be compared with another. This is achieved through maintaining a level of consistency in techniques used to collect samples; and ensuring analysing laboratories use consistent analysis techniques; and reporting methods.

- **Completeness** – is defined as the percentage of measurements made which are judged to be valid measurements. The completeness goal is set at there being sufficient valid data generated during the study.
- **Sensitivity** – expresses the appropriateness of the chosen laboratory methods, including the limits of reporting, in producing reliable data in relation to the adopted site assessment criteria.

Table 5.2: Summary of Quality Assurance/Quality Control Program

Data Quality Indicators	Frequency	Data Quality Criteria
Precision		
Blind duplicates (intra laboratory)	1 / 20 samples – heavy metals, TRH/BTEX, PAHs, OCPs/PCBs, asbestos 1 / 10 samples – PFAS (as per HEPA 2025)	<50% RPD Asbestos detection or non-detection agreement with primary sample
Blind duplicates (inter laboratory)	1 / 20 samples – heavy metals, TRH/BTEX, PAHs, OCPs/PCBs, asbestos 1 / 10 samples – PFAS (as per HEPA 2025)	<50% RPD Asbestos detection or non-detection agreement with primary sample
Laboratory Duplicates	1 / 20 samples	<50% RPD
Accuracy		
Surrogate spikes	All organic samples	PFAS: 50-150% Other: 70-130%
Laboratory control samples	1 per lab batch	PFAS: 50-150% Other: 70-130%
Matrix spikes	1 per lab batch	70-130%
Representativeness		
Sampling appropriate for media and analytes	All samples	-
Samples extracted and analysed within holding times.	-	Soil TRH/BTEX/PAHs/OCPs – 14 days Heavy metals/PCBs/PFAS – 28 days Asbestos – no holding time Groundwater pH – 6 hours Nitrite – 2 days TRH/VOCs/PAH/TDS – 7 days BTEX – 14 days Heavy metals/PFAS/conductivity/total nitrogen set – 28 days
Trip spike	1 per sampling event	70-130% recovery
Trip blank	1 per sampling event	<LOR
Rinsate blank	1 per sampling event when non-disposable sampling equipment used/media	Soil (hand auger): <LOR Groundwater (interface probe): <LOR

Data Quality Indicators	Frequency	Data Quality Criteria
Field Blank	1 per sampling event, PFAS only	<LOR
Comparability		
Standard operating procedures for sample collection & handling	All Samples	All Samples
Standard analytical methods used for all analyses	All Samples	All Samples
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All Samples
Limits of reporting appropriate and consistent	All Samples	All Samples
Completeness		
Sample description and COCs completed and appropriate	All Samples	All Samples
Appropriate documentation	All Samples	All Samples
Satisfactory frequency and result for QC samples	All QA/QC Samples	-
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	All Analytes	All limits of reporting were less than the adopted site assessment criteria.

5.1.7 Optimise the Design of Obtaining Data

Various strategies for developing a statistically based sampling plan are identified in *Contaminated Sites: Sampling Design Guidelines* (EPA 2022[9]), including judgemental, random, systematic and stratified sampling patterns. For a site 0.95 ha in size, EPA (2022) nominates a minimum sampling density of 21 systematic sampling locations for site characterisation. In the absence of specific indicators of contamination activities, it was considered that adoption of an approximately even grid of sampling locations to meet the minimum sampling density was appropriate, noting that given the current residential housing at the site, some sample points were relocated outside of existing building footprints (that were inaccessible at the time of the investigation activities).

Groundwater investigation was conducted via installation of three groundwater monitoring wells. Monitoring wells were placed at upgradient and downgradient locations in addition to a central site location to characterise groundwater and assess groundwater depth and flow direction at the time of the investigation.

5.2 Site Investigation Methodology

5.2.1 Detailed Site Investigation

Following the desktop assessment, and prior to the intrusive investigation and sampling works, a detailed site inspection was conducted by a qualified environmental scientist trained and experienced in the identification of potential sources of land contamination to assist in sample location placement.

[9] *Contaminated Land Guidelines: Sampling Design Part 1 – Application, NSW EPA*, August 2022 (EPA 2022)

5.2.2 Soil Sampling Methodology

Soil sampling locations are shown on **Figure 3**. Soil sampling was completed via drill rig (push tube/ solid flight auger / hollow flight auger) where possible. In locations which were inaccessible via drill rig, sampling was completed using hand tools (auger and/or shovel). Sampling was completed via hand auger at locations BH04, BH06, BH10, BH12, BH18, and BH19.

Soil samples were collected from the ground surface (0-0.1 m), 0.3 m below ground surface (bgs), and at approximately 0.5 m intervals to a maximum depth of 3.0 m below ground surface (bgs) for drill rig locations, and 1.5 m bgs for hand auger locations or 0.3 m into natural materials (or prior refusal). Generally, each location was terminated around 1 m bgs following identification of undisturbed natural soils.

Visual inspection of excavated material was undertaken at each location for the presence of seepage, discolouration, staining, odours, ACM and other indicators of potentially contaminated materials. Where identified, the observations were recorded on field logs, which are presented in **Appendix E**. Boreholes were reinstated using excavated material, and normally compacted level with the surrounding surface.

For drill rig locations, sampling for chemical COPCs was completed from push tubes, whilst asbestos field sampling/assessment activities were completed from augers with a minimum diameter of 150 mm. For hand augered locations, all samples were completed directly from an auger head with a diameter of 150 mm.

Disturbance of the soil was minimised where possible during sample collection and placement within laboratory supplied containers to reduce the potential for release of volatile organic compounds. Collected samples were immediately transferred to laboratory supplied sample jars or placed into asbestos bags. The sample jars were then transferred to a chilled icebox for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with the samples. Preservation of the primary soil and QA/QC samples obtained during this investigation was completed in accordance with recognised protocols (NEPC 2013).

Not all samples collected were analysed. Samples were analysed based upon field observations and in accordance with the laboratory schedule provided in **Table 5.3**. However, samples remained at the primary laboratory for a period of two months. This allowed for analysis to be completed in the event further information was required to characterise site conditions, provided that proposed analytes remain within analytical holding times.

5.2.3 Asbestos Quantification of Accessible Fill-Based Soils

Asbestos quantification sampling was conducted at each sample location in accordance with WA DoH (2021[10]) and NEPC (2013) guidance by an appropriately trained JBS&G scientist experienced in the identification of asbestos.

The drill rig and hand auger (where there was no access via drill rig) had a diameter of 150 mm as per WA DoH (2021) guidance. At each sample location, a minimum 10 litre sample of material from each 1m depth interval/fill profile was sifted through a 7mm sieve to enable identification of potential ACM fragments of greater size. All observable bonded ACM and/or asbestos fines/fibrous asbestos (AF/FA) per sample location was collected in separate sample bags (i.e., one sample bag for bonded ACM and one sample bag for FA per each 1 m interval) for weighing using an independently calibrated scale (0.01 g accuracy) to enable asbestos soil concentrations to be calculated. The approximate mass of the soil volume was calculated using a soil density of 1.65 g/cm^3, which is taken as the average of the predominant fill types being sandy soil (WA DoH 2021).

[10] *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*, (2009, updated 2021) Western Australia Department of Health (WA DoH 2021)

At least one 500 ml sample from each interval/fill layer from each location was analysed for asbestos in accordance with AS 4964-2004: Method for the Qualitative Identification of Asbestos in Bulk Samples.

5.2.3.1 Calculation of Bonded ACM and FA Concentration

Asbestos percentage was calculated as per the formula below:

$$\%\frac{w}{w}\ asbestos\ in\ soil = \frac{\%\ asbestos\ content\ \text{x}\ (bonded\ ACM\ or\ FA)(kg)}{soil\ volume\ (L)\ \text{x}\ soil\ density\ (\frac{kg}{L})}$$

For bonded ACM, an asbestos content of 15 % was used, in accordance with enHealth (2005[11]).

For FA, a conservative asbestos content of 100 % was used.

5.2.4 Groundwater Sampling Methodology

Groundwater sampling locations are shown on **Figure 3**. Three groundwater monitoring wells were installed and sampled during the investigation works. Monitoring wells were advanced via the use of a drill rig fitted with solid flight auger (SFA) or hollow flight auger (HFA) to a maximum depth of 10 m bgs which was considered to be at least 2 m below the encountered groundwater depth.

The wells were constructed from a 50 mm uPVC screen and casing, with a lockable cap and steel gatic cover.

Monitoring wells were developed following installation using a foot valve to remove sediments remaining within the well. The monitoring wells were then allowed to settle for a minimum of three days after development. Each monitoring well was then gauged and sampled. Prior to sampling, the wells were purged to remove the standing water. Field parameters of pH, conductivity, redox and temperature were taken, and samples obtained once the parameters settled to within approximately 10 %. Groundwater samples were obtained through the use of a peristaltic pump.

Collected water samples were immediately filtered (as necessary) and transferred to laboratory-supplied sample containers. The sample containers were then transferred to a chilled iced box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with the samples. Samples were analysed in accordance with the laboratory schedule (**Table 5.3**).

5.2.5 Decontamination and Calibration

Soil samples were collected directly from the push tube liners and/or hand auger head during sampling. Where sample locations were advanced via hand auger, the hand auger was decontaminated between sampling locations by removing excess dirt using a brush, rinsing in a mixture of phosphate-free detergent, following by rinsing with deionised water. Samples were collected using a new pair of nitrile gloves at each sampling location. Care was taken to ensure that soils did not come into contact with clothing, plastic food wrappers or other items with the potential to consist of PFAS. A PID was calibrated in the field prior to use (see **Appendix F**).

During the groundwater investigation, the interface probe was decontaminated between sampling locations using Liquinox and PFAS free water (laboratory supplied).

All calibration and decontamination conducted was recorded on field sheets and equipment calibration and decontamination certificates were kept (as provided in **Appendix F**).

In addition to the above, rinsate samples were collected from non-disposable sampling equipment (hand auger and interface probe) used in the investigation.

[11] *Management of Asbestos in the Non-Occupational Environment*, EnHealth Council, 2005 (enHealth 2005)

5.2.6 Duplicate and Triplicate Sample Preparation

At selected sample locations, sufficient soil/water was collected to provide a primary, a blind (intra-laboratory) duplicate and a split (inter-laboratory) duplicate (triplicate) sample. The collected samples were divided laterally into three samples with minimal disturbance to reduce the potential for loss of volatiles and placed in three clean glass jars, sample bags or bottles as appropriate. Soil samples were not homogenised to minimise the loss of volatiles.

Each sample was then labelled with a primary, duplicate (generally 'QC') or triplicate (generally 'QA') sample identification before being placed in the same chilled esky for laboratory transport.

5.2.7 Laboratory Analysis

JBS&G contracted Eurofins|mgt (Eurofins) as the primary laboratory for all the required analyses. The secondary laboratory for the analyses was Envirolab Services Pty Ltd (Envirolab). The laboratories are National Association of Testing Authorities (NATA) accredited for the required analyses.

In addition, the laboratories were required to meet JBS&G's internal QA/QC requirements. Laboratory analysis of samples was conducted as summarised in **Table 5.3**.

Table 5.3: Sampling and Analytical Program

Sample Type	No. of Sampling Locations	Analyses (exc. QA/QC)
Soil – boreholes and hand augers	21 locations	Asbestos – 23 samples (500 mL samples) + visual/AQ assessment at all locations Asbestos fragments (presence/absence confirmation) – 3 fragments Metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) – 33 samples TRH/BTEX – 23 samples OCPs/PCBs – 23 samples PAHs – 33 samples PFAS (30 compounds, standard LOR) – 11 samples EIL suite (pH, EC, CEC) – 2 samples TCLP (heavy metals and PAHs) – 2 samples TCLP PFAS – 1 sample
Groundwater	3 locations	Metals (As, Cd, Cr(VI), Cu, Hg, Ni, Pb, Zn) – 3 samples TRH/BTEX – 3 samples PAHs – 3 samples VOCs – 3 samples PFAS (ultra trace) – 3 samples pH, EC, TDS - 3 samples Nutrient suite (NO_2, NO_3, NH_3, TKN) – 3 samples

In addition to the above analyses, field duplicates and triplicates were analysed for QA/QC purposes at a rate of 1/20 primary samples for all analytes except PFAS, which was analysed at a rate of 1/10 primary samples, as per HEPA (2025) guidance. QA/QC requirements are discussed further in **Section 7** and **Appendix G**.

6. Assessment Criteria

6.1 Regulatory Guidelines

The investigation was undertaken with consideration to aspects of the following guidelines, as relevant:

- *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZG 2018);
- *Australian Drinking Water Guidelines, Volume 6*. National Health and Medical Research Council 2011, Version 4.0, as updated June 2025 (NHMRC 2025);
- *Contaminated Land Guidelines: Sampling Design Part 1 – Application*, NSW EPA, August 2022 (EPA 2022);
- *Contaminated Land Guidelines: Consultants Reporting on Contaminated Land*, NSW EPA, 2020 (EPA 2020);
- *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme*, 3rd Edition, NSW EPA, 2017 (NSW EPA 2017);
- *Contaminated Sites: Guidelines for the Assessment and Management of Groundwater Contamination*, NSW DEC, March 2007 (DEC 2007); and
- *Guidelines for the Assessment Remediation and Management of Asbestos-Contaminated Sites in Western Australia*, Western Australia Department of Health, 2009 updated 2021 (WA DoH 2021);
- *National Environment Protection (Assessment of Site Contamination) Measure 2013 (as amended 2013)*, National Environment Protection Council (NEPC 2013);
- *PFAS National Environmental Management Plan (NEMP) Version 3.0*, Heads of EPA Australia and New Zealand 2025, (HEPA 2025);
- *Waste Classification Guidelines Part 1: Classifying Waste,* NSW EPA, November 2014 (NSW EPA 2014a); and
- *Addendum to the Waste Classification Guidelines (3014) – Part 1: classifying waste*. NSW EPA, October 2016 (NSW EPA 2016); and

6.2 Soil Assessment Criteria

As per the decision process for the assessment of urban development sites (EPA 2017), a set of health and ecological assessment thresholds derived from NEPC (2013) was used for the evaluation of site contamination data collected for this assessment. Where site land uses fall within more than one generic land use scenario, a conservative approach is required with regard to developing assessment criteria appropriate for all potential future land uses. Based on future development plans for the site, it is likely to have areas with gardens and accessible soils. The NEPC (2013) definition of HIL-A is therefore most applicable, as HIL-B does not account for complete exposure pathways that are likely to be present on the site in areas of landscaping.

The site data was compared to the following criteria, as outlined below and shown in **Tables A** to **C**.

- Health Investigation Levels (HILs)/Health Screening Levels (HSLs) for residential with garden/accessible soils (HIL-A) land use scenario (NEPM values). Further discussion of HILs in relation to PFAS is provided in **Section 6.2.1**;
- Ecological Investigation/Screening Levels (EILs/ESLs) for urban residential land use including site-specific EILs derived for some metals per NEPC (2013) guidance, using site soil specific characteristics:
    - The EILs for some metals have been derived based on site-specific soil properties including soil cation exchange capacity (CEC, 8.4 meq/100g), soil pH (6.5 pH units), aged soil/high traffic volume

and an estimated percentage of clay content (5%), consistent with NEPC (2013) guidance. This has resulted in site specific criteria for arsenic, lead, copper, nickel, zinc and chromium as outlined in the results summary tables;

- Management limits for petroleum hydrocarbons for urban residential, parkland and public open space land use;
- Asbestos in soil concentrations with regards to residential with garden/accessible soils land use criteria (HSL A);
- Waste classification guidelines for preliminary assessment of material for off-site disposal should remediation be required and/or material is excess to development requirements, inclusive of characterisation as general solid waste (GSW), special (asbestos) waste and/or restricted solid waste (RSW);
- HEPA NEMP 3.0 ecological direct and indirect exposure, applicable for all land use scenarios, were applied for PFAS compounds noting that the interim ecological indirect guideline value of 0.14 mg/kg for PFOS was applied, with consideration to the site development, absence of secondary and tertiary consumers, urban setting and limited proximity to waterways; and
    -
- Aesthetic considerations, applicable for all land uses.

As a conservative measure, the results were compared against coarse-grained/sandy soils, generally consistent with the observed silty sand soils present on the site.

Where there are no NSW EPA-approved thresholds for individual COPCs, the laboratory limit of reporting (LOR) was adopted as an initial screening value for the purpose of this assessment.

Where a valid data set was generated for soil contaminants, the following statistical criteria was applied consistent with relevant guidelines for assessment of data against adopted land use criteria:

- The 95% upper confidence limit (UCL) on the average concentrations shall be below the soil criteria;
- The standard deviation of the generated data set shall be below 50% of the soil criteria; and
- The maximum concentration shall be below 250 % of the soil criteria.

6.2.1 Site-Specific PFAS Health Investigation Levels

The PFAS NEMP 3.0 (HEPA 2025) has nominated soil investigation level as potentially applicable to this site as residential with garden/accessible soil (HIL-A), and residential with minimal opportunities for soil access (HIL-B).

These criteria are intended to be appropriate to assess the potential exposure to PFAS impacted soils of a reasonable maximum exposed (RME) receptor within a site. It is noted that this is not the absolute worst case exposure, but a reasonable assessment of what a maximum level of exposure may be.

Reference has been made to *PFAS NEMP 3.0 Supporting Document 4, Human health soil guideline values for PFOS+PFHxS and PFOA: Derivation of the human health investigation levels for soil for 'residential with garden / accessible soil' (HIL A) and a review of relevant soil to plant transfer factors* (HEPA 2025) for exposure parameters that have been adopted with the calculations to set each of the respective criteria.

In the first instance, the HIL-A criteria are the most conservative and have been considered for the site. These criteria are substantially based on PFAS intake through home grown produce ingestion. Noting the proposed redeveloped site configuration includes four 6-8 storey residential flat buildings with communal green space areas, there will be little opportunity for substantial home grown produce to occur within the extent of these developments. It is reasonable to consider that home grown produce will be restricted to private yard areas as controlled by a single individual / family and in instances where significant space is available within yard

areas. The HIL-A criteria are considered grossly over-conservative for application to the site and consideration of an RME receptor for the nominated development on the site.

Alternate HIL-B criteria is provided, which omits consideration of home grown produce, and is based on estimates of lifetime soil ingestion and dermal exposure (i.e. skin contact). The rates of soil ingestion and dermal contact adopted with the derivation of this criteria is significantly less than what has been adopted with the HIL-A exposure scenario.

It is reasonable to consider that recreational / outdoor activity of tenants of the residential dwellings may be restricted to the open space areas immediately adjoining the dwellings. On this basis, rates of soil ingestion and dermal contact would be consistent with the highest rates as adopted with the derivation of the HIL-A criteria. The rates of soil exposure provided to the HIL-B exposure scenarios will potentially underestimate the maximum rates that can occur in proximity of the site.

Alternate criteria have been derived on the basis of HIL-A exposure setting, inclusive of the maximum rates of soil ingestion, dermal contact and particulate exposure, but excluding the home grown produce exposure pathway that is considered unreasonable for the site. These modified HIL-A criteria are considered to be a reasonable basis to assess the potential maximum exposures that may occur on the site and are inclusive of:

- Sum of PFOS and PFHxS: 0.5 mg/kg; and
- PFOA: 5 mg/kg.

6.3 Groundwater Assessment Criteria

Screening criteria have been adopted from the following guidelines to assess the current condition of groundwater, the potential contaminant migration risks and its suitability for future land uses, with adopted criteria included in **Table E**.

- Groundwater HSLs for vapour intrusion in coarse soil as presented in NEPC (2013);
- Recreational criteria (to address potential exposure to future basement users/site maintenance workers, etc) as a conservative assessment of worker exposure and/or basement users, from the *Australian Drinking Water Guidelines Volume 6 2011*, National Health and Medical Research Council, as updated June 2025 (NHMRC 2025), with recreational exposure criteria being ten times the drinking water criteria;
- Ecological criteria as derived from the *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZG 2018). Given the urbanised nature of the receiving water body (Botany Bay), criteria for protection of 95% marine species in a slightly to moderately disturbed ecosystem have been adopted;
- The interim marine ecological water quality guideline values for protection of 95% (slightly to moderately disturbed systems) for PFOS and PFOA as presented in the *PFAS National Environmental Management Plan* (NEMP 3.0, HEPA 2025). Whilst it is noted that HEPA (2025) recommends using the 99% protection due to the bioaccumulation risk, given the nature of the receiving water body and its distance from the site, this is considered overly conservative given the ubiquitous nature of the contaminant in highly urbanised environments.

Where no criteria are present in the above source documents for an individual contaminant(s), the LOR has been used as an initial screening criteria, above which further consideration would be required of the contaminant concentrations.

7. Quality Assurance/Quality Control

The QA/QC results for samples collected at the site are summarised and discussed in **Appendix G**.

The field sampling and handling procedures produced QA/QC results which indicate that the soil and groundwater data are of an acceptable quality and suitable for use in site characterisation.

The NATA certified laboratory results indicate that the project laboratory was generally achieving levels of performance within its recommended control limits during the period when the samples of this program were analysed.

On the basis of the results of the field and laboratory QA/QC program, the soil and groundwater data are of an acceptable quality upon which to draw conclusions regarding the environmental condition of the site.

8. Results

8.1 Field Results

8.1.1 Soil Observations

Soil sampling was conducted on 13 to 18 June 2025 at the sample locations shown on **Figure 3**. Borehole logs are included in **Appendix E**. A total of twenty-one boreholes were advanced via drill rig and hand auger (BH01 to BH21) to collect soil samples.

Fill material was encountered at all sampling locations to depths ranging from 0.2 to 0.8 m bgs. Fill material encountered at the site primarily comprised dry dark brown to grey silty sand, with trace inclusions of roots, gravels, brick, terracotta pieces, glass, tile and trace shale gravel. This was underlain by natural sand that was dry to damp, grey to brown in colour and of loose to medium density, with inclusions of trace rootlets. Wet to saturated sand soils were encountered in BH02/MW01, BH11/MW02 and BH21/MW03 at depths ranging from 5.8 to 7.8 m bgs.

No staining or odours were observed on the site surface or within the investigation locations. Three ACM fragments were observed within the fill material at sampling locations BH11/MW02, BH12 and BH19. Another ACM fragment was observed on the ground surface northwest of BH19.

8.1.2 Asbestos Quantification Results

The results of the AQ program (**Table C**) identified asbestos from bonded ACM in subsurface fill material at three sampling locations BH02/MW01, BH11/MW02 and BH21/MW03. Collected fragments were processed via the methodology described in **Section 5.2.3** to produce a weight-to weight percentage comparable to the health-related land use criterion adopted in **Section 6.2**:

- One fragment of ACM was identified at BH11/MW02 at a depth between 0-0.3 m bgs, with a calculated concentration of 0.016 % w/w ACM, above the HSL A criterion of 0.01 % w/w;
- One fragment of ACM was identified at BH12 at a depth between 0-0.3 m bgs, with a value of 0.018 % w/w ACM, above the HSL A criterion of 0.01 % w/w; and
- One fragment of ACM was identified at BH19 at a depth between 0 to 0.8 m bgs, with a value of 0.0081 % w/w ACM, below the HSL A criterion of 0.01 % w/w.

One ACM fragment was also identified on the surface near BH19, outside of the AQ assessment.

8.1.3 Groundwater Observations

Monitoring wells MW01 to MW03 were installed on 13 and 18 June 2025. Well locations are shown on **Figure 3**. Groundwater observations and groundwater parameters documented during the sampling works are provided in **Table D**.

Free phase liquids were not observed in the monitoring wells during the sampling event completed on 30 June 2025. Depth to water (DTW) was encountered between 5.275 m below top of casing (m btoc) (MW03) and 5.8 m btoc (MW01), which produced standing water levels (SWLs) between 20.49 m AHD (MW03) to 21.554 m AHD (MW01). Generally, groundwater levels appeared to be falling towards the south/southeast of the site, consistent with the anticipated groundwater migration direction generally toward the south/southwest. Groundwater purged from the sampled wells ranged from light grey to colourless and was non-turbid. No odours or sheen were observed in purged water from the monitoring wells.

Groundwater field parameters are summarised as follows:

- Electrical conductivity (EC) of groundwater identified fresh conditions, ranging between 130 to 165 µs/cm;

- pH conditions were relatively acidic ranging between 4.84 to 5.51;
- Dissolved oxygen (DO) concentrations ranged between 6.09 to 6.45 mg/L;
- Water temperature values ranged between 18.8 to 20.8°C; and
- Uncorrected redox potential (ORP) values were generally neutral to slightly oxidising being reported in the range between 121.2 to 203.2 mV.

8.2 Soil Analytical Results

Detailed laboratory reports and chain of custody documentation are provided in **Appendix H**. Summarised soil laboratory results are presented in **Table A** to **Table C** and discussed in the following section. Soil exceedances are summarised on **Figure 4A**.

8.2.1 Heavy Metals

Heavy metal concentrations were reported below the laboratory LOR and/or the adopted site assessment criteria in the samples analysed with the following exceptions:

- Chromium (III+VI) was reported in two samples, BH01_0-0.1 (140 mg/kg) and BH03_0-0.1 (550 mg/kg) at concentrations exceeding the adopted HIL-A criterion (Chromium VI, 100 mg/kg). Hexavalent chromium (chromium VI) analysis was completed on sample BH03_0-0.1, which reported the concentration as below the laboratory LOR and the HIL-A. The result is considered to be representative of the chromium impacts at the site, and indicates that chromium is present in soil as the less toxic trivalent chromium (chromium III);
- Chromium (III+VI) was reported at BH03_0-0.1 above the adopted site-specific EIL criterion (Chromium III, 320 mg/kg). Due to lead also being present within the BH01_0-0.1 and BH03_0-0.1 samples, no statistical analysis was completed; and
- Lead was reported in three samples, BH01_0-0.1 (540 mg/kg), BH03_0-0.1 (1,200 mg/kg) and BH04_0-0.1 (350 mg/kg) at concentrations exceeding the adopted HIL-A criterion (300 mg/kg). One of these samples (BH03_0-0.1) exceeded the adopted site-specific EIL criterion (1,100 mg/kg). Due to the result at BH03_0-0.1 exceeding the HIL-A criterion by more than 250%, and the remaining exceedances located in nearby sample points, material in this area was considered to be a hotspot and as such, further statistical analysis was not undertaken.

8.2.2 TRH and BTEX

TRH and BTEX concentrations were reported at concentrations below the LOR and/or the adopted site assessment criteria in the samples analysed with the following exceptions:

- TRH C16-C34 was reported in two samples, BH03_0-0.1 (380 mg/kg) and BH15_0-0.1 (380 mg/kg) at a concentration exceeding the ESL for urban residential and public open space coarse soil criteria (300 mg/kg). Statistical analysis of all TRH concentrations in fill reported a standard deviation (SD) of 78.3 mg/kg and a 95% UCL mean of 164.2 mg/kg and as such the population data set is considered to meet the ESL criteria. Given a lead in soil hotspot was detected at BH03_0-0.1 that will ultimately be removed from the data set, statistical analysis was repeated excluding the data point and closest sample locations (i.e. BH01, BH02 and BH04), which also reported an acceptable SD of 56.1 mg/kg and a 95% UCL mean of 143.6 mg/kg, meeting the ESL criterion; and
- TRH F1 Fraction was reported in one sample, BH20_0-0.1 (85 mg/kg) at a concentration exceeding the HSL for vapour intrusion in sand (45 mg/kg). Statistical analysis reported a 95% UCL value of 30.6 mg/kg, below the HSL.

Statistical analysis of the samples is provided in **Appendix I**. Both statistical analyses exclude locations at BH01 to BH04 as fill soils at these locations are anticipated to be removed from the site.

8.2.3 PAHs

PAHs were reported at concentrations below the LOR and/or the adopted site assessment criteria, with the exception of benzo(a)pyrene, which was reported in two samples, BH01_0-0.1 (1.7 mg/kg) and QC02_20250616 (primary sample BH05_0-0.1, 1.6 mg/kg) at concentrations exceeding the ESL for urban residential and public urban space criteria (0.7 mg/kg). Statistical analysis reported a 95% UCL value of 0.64 mg/kg benzo(a)pyrene (SD of 0.24 mg/kg), below the ESL. Statistical analysis of the data is provided in **Appendix I**, and excludes locations at BH01 to BH04 as fill soils at these locations are anticipated to be removed from the site.

8.2.4 OCPs and PCBs

OCPs and PCBs were reported to be below the laboratory LOR in all soil samples submitted for analysis, except for BH11_0-0.1 which reported OCP detections of Dieldrin (0.12 mg/kg), Endosulfan II (0.06 mg/kg) and Endrin (0.06 mg/kg). All reported results were below the adopted site assessment criteria.

8.2.5 Asbestos

A total of twenty-one AQ samples had a representative 500ml sample submitted for laboratory analysis for asbestos in soil.

Laboratory analysis of selected soil samples for asbestos fines, fibrous asbestos (AF/FA) and ACM did not detect asbestos above the LOR and therefore laboratory sample analysis results were below the adopted site assessment criteria (0.001 % w/w AF/FA in soil).

The fragments identified during the AQ assessment at BH12 and BH19 were laboratory tested and confirmed the presence of asbestos.

8.2.6 PFAS

PFAS was reported at concentrations below the laboratory LOR and/or the adopted site assessment criteria (noting that a site specific criterion of 0.5 mg/kg sum of PFHxS plus PFOS has been adopted for the assessment) in all analysed samples.

8.2.7 Preliminary Waste Classification

Soil samples were compared against NSW EPA Waste Classification Guidelines (EPA 2014). The following was identified in relation to potential future waste classification:

- Exceedances of GSW guidelines (CT1) were identified in some samples (BH01-0-0.1, BH02_0-0.1, BH03_0-0.1, BH04_0-0.1, BH05_0-0.1, BH06_0-0.1, BH11_0-0.1, BH13_0-0.1 and BH16_0-0.1) for lead, chromium, mercury and benzo(a)pyrene, with all total contamination results less than the SCC1 thresholds;
- TCLP data for individual heavy metals and PAHs for samples BH01_0-0.1 and BH03_0-0.1 and PFAS in sample BH12_0-0.1 were reported to have contaminant concentrations less than GSW (TCLP1) leachate thresholds.

On this basis of the above, the material analysis data set indicates that for future planning purposes, the preliminary assessment of fill material would be considered consistent with GSW in the absence of asbestos in soil detections, with material otherwise being characterised as consistent with GSW mixed with special (asbestos) waste.

8.3 Groundwater Analytical Results

Groundwater samples were analysed for a range of COPCs. The summarised laboratory results are presented in **Table E** and detailed laboratory reports and chain of custody documentation are provided in **Appendix H**.

Commentary on the results with consideration of the adopted site assessment criteria is presented in the following sections. Groundwater exceedances are summarised on **Figure 4B**.

8.3.1 Heavy Metals

Heavy metals were reported below the laboratory LOR in groundwater samples submitted for analysis, except for two heavy metal detections of Chromium III+VI (0.001 mg/L) at MW01 and MW03 and copper (0.001 mg/L) at MW01 and MW02. All reported results were below the adopted site assessment criteria.

8.3.2 TRH and BTEX

TRH and BTEX were reported at concentrations below the laboratory LOR and the adopted site assessment criteria.

8.3.3 PAHs

All individual PAHs were reported at concentrations below the laboratory LOR and the adopted site assessment criteria.

8.3.4 VOCs

All individual VOCs were reported at concentrations below the laboratory LOR and the adopted site assessment criteria.

8.3.5 PFAS

PFAS concentrations were generally below the laboratory LOR and/or site assessment criteria, except for PFOS.

PFOS concentrations were reported in all three samples (including duplicate and triplicate samples), ranging from 0.0017 µg/L (MW03) to 0.038 µg/L (MW02). These samples exceeded the marine 99% species protection criterion of 0.00023 µg/L (conservative guideline), however were below the 95% species protection criteria and ADWG (NHMRC 2025) recreational criteria of 0.13 µg/L and 0.08 µg/L respectively.

8.3.6 Nutrient suite (NO2, NO3, NH3, TKN)

Nutrients were reported at concentrations below the laboratory LOR and/or the adopted site assessment criteria in samples analysed. Nitrite was analysed slightly outside of the holding time (< 2 days) and therefore may be an underestimate of the nitrite component within the groundwater. However, as a screening assessment this is not considered to affect the conclusions of the results, as the degradation of nitrite is captured as other forms of nitrogen compounds. Additionally, ammonia was only reported by the secondary laboratory's nutrient suite, however results were below the site assessment criteria.

8.3.7 pH, EC and TDS

EC for groundwater samples collected were reported ranging between 150 to 200 µS/cm which indicates fresh conditions.

The pH for groundwater samples collected were reported as relatively neutral, ranging between 6.0 to 6.7 pH units. It is noted that there is an inconsistency between the field and laboratory pH results, which may require further investigation in future.

Total dissolved solids (TDS) for groundwater samples collected were reported ranging between 86 to 130 mg/L.

9. Discussion

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017), the decisions required to be made are discussed below.

9.1 Are there any unacceptable risks to likely future onsite receptors?

Soil:

Asbestos in the form of non-friable ACM was observed on the ground surface and in fill materials on the site. At two of the AQ locations (BH11/MW02_0-0.3 and BH12_0-0.3, see **Figure 4A**) ACM was observed above the HSL-A criterion of 0.01 % w/w, and at one AQ location (BH19_0-0.8) below the HSL-A criterion. It is noted that if soil represented by sample BH19_0-0.8 is present at the site surface (i.e. 0-0.1m) it would exceed the HSL criterion of "no visible asbestos in the top 100mm". The presence of non-friable ACM fragments may pose an unacceptable health risk to future site users should the fragments be disturbed/abraded and asbestos fibres be released and become airborne and respirable.

Lead and chromium were reported at concentrations above HIL-A and EIL criteria within the northern portion of the site, particularly within BH03_0-0.1. Surface soils at BH01, BH03 and BH04 present a risk to future onsite receptors and will require management during redevelopment of the site.

Based upon the specific land use scenario, reported concentrations of the remaining COPCs including PFAS, TRH/BTEXN and PAHs were reported below the adopted health and ecological based site assessment criteria, and therefore are not considered to present a risk to future on site receptors.

Groundwater:

Concentrations of COPCs in groundwater were reported below the adopted site assessment criteria except for minor exceedances in some samples for PFOS for the most sensitive (99 %) ecological trigger value. The reported levels of PFOS are consistent with levels typically observed in urban settings, and concentrations of COPC were consistent across upgradient and downgradient monitoring wells. As such, the reported concentrations of PFOS, that are below the 95% trigger values and the adopted health based exposure criteria are not considered consequent of contamination source(s) on the site. However it is noted that these concentrations may require further consideration/management should dewatering be necessary during redevelopment construction activities.

Relatively acidic readings were recorded during field screening of pH in groundwater. However, this was noted to be inconsistent with laboratory pH results. While field pH is usually more accurate, the inconsistency should be further investigated via additional field and laboratory testing should dewatering be required for the proposed development construction works, such that management of conditions may be planned in preparation for prior to discharge of groundwater from the site.

9.2 Are there any issues relating to the local area background soil concentrations that exceed appropriate soil criteria?

There were no issues identified relating to background soil contamination presenting an unacceptable risk to human and/or ecological receptors at the site.

9.3 Are there any impacts of chemical mixtures?

Chemical contamination of soils has been identified in a limited area in the northern portion of the site, where there are exceedances of lead, with some co-located TRH and benzo(a)pyrene at relatively low levels. Removal of the surface soils associated with lead exceedances (BH01, BH03, and BH04) will address any chemical mixtures impacting site suitability. Asbestos impacts at the site have not been associated with other chemical contaminants and as such there is no further requirement for consideration of chemical mixtures.

9.4 Are there any aesthetic issues present at the site?

The surface of the site was observed to be well maintained with no staining or odours observed with exception of an ACM fragment observed on the ground surface northwest of BH19. Additionally, no stockpiles nor fly-tipping was observed on the surface of the site.

Fill materials observed during the investigation included visible ACM at BH11_0-0.3, BH12_0-0.3 and BH19_0-0.8. It is noted that test pits are a preferred option for identifying and quantifying potential asbestos impacts, however boreholes were used for sample collection due to the active use of the site and therefore the requirement to minimise disturbance to existing residents. Based on the identified presence of ACM at the site, likely associated with either importation of fill material of unknown origin, or alternatively the result of any minor historical demolition works which may have involved the removal of potential asbestos building materials, the potential for further asbestos impacts at the site exists. Additionally fill materials were observed to include anthropogenic waste such as glass, tile, brick and terracotta which may present a potential aesthetic issue where soils are to be retained in areas where it may be accessible at the ground surface to future residents.

As such, development of the asbestos/fill soil management strategy within the remedial action plan (RAP) will be required to consider the potential requirements to ensure all aesthetic issues are addressed during site development works.

9.5 Is there any evidence of, or potential for, migration of contaminants from the site or offsite?

The potential for migration of contaminants from the site is low, based on the following:

- The site is surfaced with grass in good condition in addition to areas of concrete/asphalt hardstand and building footprints which minimises dust and water erosion potential and as such ongoing use of the site in its current condition is considered unlikely to result in the migration of identified soil contamination; and
- Elevated concentrations PFOS in groundwater are considered to be a regional issue and not due to site activities.

The identified contaminated material will be the subject of a RAP to ensure the suitability of the site for the proposed land use scenario. Environmental management procedures will be included in the RAP to address requirements for management of contaminant migration conditions during redevelopment works such that upon completion of the works.

9.6 Is a site management strategy required?

Based upon the scope of work completed for this combined PSI/DSI, a RAP is required to be prepared for the site to manage and remediate the identified impacts such that the site can be made suitable for the proposed use. The RAP will be required to address the identified contamination issues including:

- Removal of ACM contaminated soil exceeding site criteria and management of site fill materials with ACM/potential to contain ACM during redevelopment;
- Management of lead impacted surface soils within the northern portion of the site;
- Management of potential unexpected finds identified during redevelopment; and
- Management of groundwater should the redevelopment activities require temporary dewatering inclusive of extraction and potentially off-site disposal of water.

10. Conclusions and Recommendations

Based on the scope of the work undertaken, and subject to the limitations in **Section 11**, it is considered that the site can be made suitable for the proposed medium to high density residential development with gardens/accessible soils, following the implementation of a RAP.

Asbestos and lead were identified in fill materials at the site exceeding site assessment criteria. It is recommended that a RAP be prepared to support the redevelopment, documenting the procedures and activities required to address soil issues such that the site can be demonstrated as having been made suitable for the proposed land use.

Further consideration should be given to potential requirements for temporary dewatering during construction activities and associated off-site disposal of water with regard to PFAS in addition to standard construction requirements (sediment flocculation, pH adjustment, etc).

11. Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties. The report has been prepared specifically for the client for the purposes of the commission, and no warranties, express or implied, are offered to any third parties and no liability will be accepted for use or interpretation of this report by any third party.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose. This report should not be amended in any way without prior approval by JBS&G, or reproduced other than in full including all attachments as originally provided to the client by JBS&G.

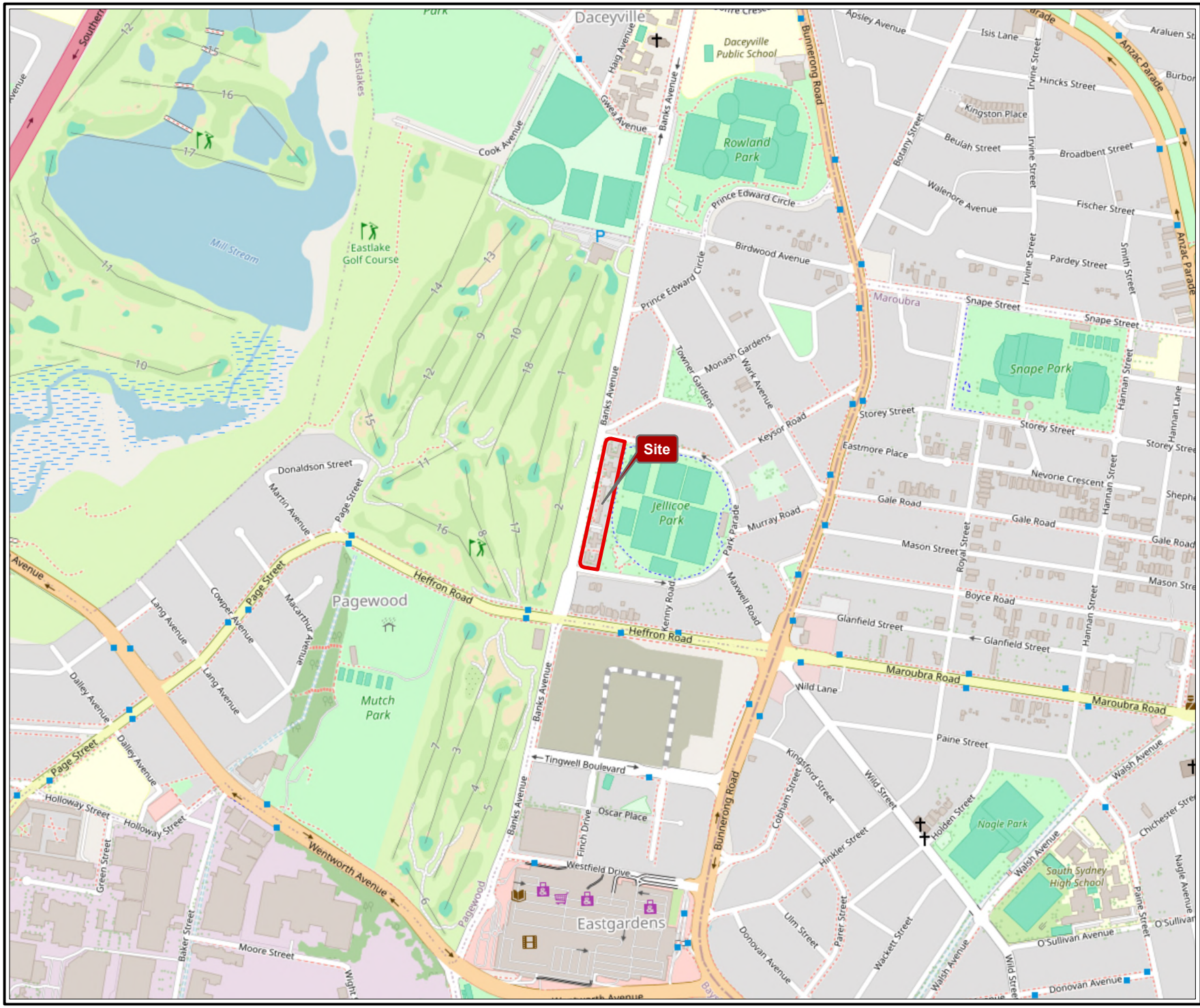
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements or agreed scope of work.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Figures



Legend

Approximate Site Boundary

JBS&G

Job No: 69149

Client: Homes NSW

Version: R01 Rev 1	Date 14/05/2025
Drawn By: TS	Checked By: NB

Scale 1:10,000

0 100 200

metres

Coord. Sys. GDA2020 MGA Zone 56

68-80 Banks Avenue, Pagewood, NSW

SITE LOCATION

FIGURE 1

File Name: 69149_PagewoodHAFFGeotechandEnviroPSIDSI_R01RevA

Legend

- Approximate Site Boundary
- NSW Cadastre

JBS&G

Job No: 69149	
Client: Homes NSW	
Version: R01 Rev 1	Date 18/07/2025
Drawn By: TS	Checked By: NB

Scale 1:2,000

0 25 50

metres

Coord. Sys. GDA2020 MGA Zone 56

68-80 Banks Avenue, Pagewood, NSW

SITE LAYOUT

FIGURE 2

File Name: 69149_PagewoodHAFFGeotechandEnviroPSIDSI_R01RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 02/04/2025)

Legend

- Approximate Site Boundary
- NSW Cadastre

Sample Locations

- Soil/Groundwater Locations
- Soil Sample Location
- Surface ACM Fragment

JBS&G

Job No: 69149

Client: Homes NSW

Version: R01 Rev 1	Date 18/07/2025
Drawn By: TS	Checked By: NB

Scale 1:1,500

0 25 50

metres

Coord. Sys. GDA2020 MGA Zone 56

68-80 Banks Avenue, Pagewood, NSW

SAMPLE LOCATIONS

FIGURE 3

File Name: 69149_PagewoodHAFFGeotechandEnviroPSIDSI_R01RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 02/04/2025)

Legend

- Approximate Site Boundary
- NSW Cadastre

Sample Locations

- Soil/Groundwater Locations
- Soil Sample Location
- Surface ACM Fragment

JBS&G

Job No: 69149

Client: Homes NSW

Version: R01 Rev 1 | Date 23/07/2025

Drawn By: TS | Checked By: NB

Scale 1:1,500

0 25 50

metres

Coord. Sys. GDA2020 MGA Zone 56

68-80 Banks Avenue, Pagewood, NSW

SOIL EXCEEDANCES

FIGURE 4A

File Name: 69149_PagewoodHAFFGeotechandEnviroPSIDSI_R01RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 02/04/2025)

MW01 Analyte	Concentration	Criteria
PFOS	0.002µg/L	PFAS NEMP 99% Marine Species Protection

MW02 Analyte	Concentration	Criteria
PFOS	0.038µg/L	PFAS NEMP 99% Marine Species Protection

MW03 Analyte	Concentration	Criteria
PFOS	0.0017µg/L	PFAS NEMP 99% Marine Species Protection

Legend

- Approximate Site Boundary
- NSW Cadastre

Sample Locations

- Soil/Groundwater Locations
- Soil Sample Location
- Surface ACM Fragment

JBS&G

Job No: 69149

Client: Homes NSW

Version: R01 Rev 1	Date 23/07/2025
Drawn By: TS	Checked By: NB

Scale 1:1,500

0 25 50

metres

Coord. Sys. GDA2020 MGA Zone 56

68-80 Banks Avenue, Pagewood, NSW

GROUNDWATER EXCEEDANCES

FIGURE 4B

File Name: 69149_PagewoodHAFFGeotechandEnviroPSIDSI_R01RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 02/04/2025)

Data Summary Tables

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				Metals & Metalloids									TPHs (NEPC 1999)					TRHs (NEPC 2013)						
				Arsenic	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				2	0.4	1	1	1	1	0.1	1	1	20	20	50	50	50	20	50	100	100	50	20	50
NEPM 2013 Table 1A(1) HILs Res A Soil				100	20	100	100	6,000	300	40	400	7,400												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m																							45	110
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space				100			320	180	1,100		120	430												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				300	2,800		180	120
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				1,300	5,600		180	120
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																		700	1,000	2,500	10,000			
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																		800	1,000	3,500	10,000			
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																								
NSW 2014 General Solid Waste CT1 (No Leaching)				100	20	100	100		100	4	40		650				10,000							
NSW 2014 General Solid Waste SCC1 (with leached)				500	100	1,900	1,900		1,500	50	1,050		650				10,000							
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				400	80	400	400		400	16	160		2,600				40,000							
NSW 2014 Restricted Solid Waste SCC2 (with leached)				2,000	400	7,600	7,600		6,000	200	4,200		2,600				40,000							
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																								
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																								
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil																								
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																								
PFAS HIL A - Site Specific Exposure Scenario																								
Location Code	**Field ID**	**Date**	**Lab Report Number**																					
BH01	BH01_0_0.1	16 Jun 2025	1234275	9.1	0.7	-	140	37	540	1.1	6.3	290	<20	<20	130	130	260	<20	<50	230	<100	230	<20	<50
	BH01_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02	BH02/MW01_0.3_0.5	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH02/MW01_0_0.1	13 Jun 2025	1234275	5.6	<0.4	-	34	27	150	0.2	9.3	110	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	BH02/MW01_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH02/MW01_3_3.1	13 Jun 2025	1234275	<2	<0.4	-	<5	<5	<5	<0.1	<5	<5	-	-	-	-	-	-	-	-	-	-	-	-
BH03	BH03_0-0.1	13 Jun 2025	1244298	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH03_0_0.1	16 Jun 2025	1234275	16	0.7	-	550	43	1,200	6.9	5.4	160	<20	48	220	230	498	<20	56	380	120	556	<20	56
	BH03_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04	BH04_0_0.1	16 Jun 2025	1234275	5.2	0.4	-	23	53	350	0.4	6.9	290	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	BH04_0.3_0.4	16 Jun 2025	1234275	<2	<0.4	-	7.3	10	54	0.1	<5	52	-	-	-	-	-	-	-	-	-	-	-	-
	BH04_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QC01_20250616_AQ	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA01_20250616_AQ	16 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05	BH05_0_0.1	16 Jun 2025	1234275	3.6	<0.4	-	8.0	18	180	0.1	<5	130	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	QC02_20250616	16 Jun 2025	1234275	5.6	<0.4	-	13	33	140	0.2	8.5	160	<20	<20	<50	62	62	<20	<50	<100	<100	<100	<20	<50
	QA02_20250616	16 Jun 2025	383658	5	<0.4	-	10	25	100	0.1	6	110	<25	<50	<100	<100	<50	<25	<50	<100	<100	<50	<25	<50
	BH05_0.3_0.4	16 Jun 2025	1234275	5.8	<0.4	-	12	18	89	<0.1	5.7	120	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	BH05_0_0.5	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06	BH06_0.3_0.4	16 Jun 2025	1234275	4.6	<0.4	-	<5	6.3	58	<0.1	<5	70	-	-	-	-	-	-	-	-	-	-	-	-
	BH06_0_0.1	16 Jun 2025	1234275	14	<0.4	-	14	53	170	0.3	8.6	150	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	BH06_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07	BH07_0_0.1	16 Jun 2025	1234275	3.1	<0.4	-	14	7.3	34	0.1	<5	15	<20	<20	<50	65	65	<20	<50	<100	<100	<100	<20	<50
	BH07_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08	BH08_0_0.1	13 Jun 2025	1234275	5.8	<0.4	-	15	26	100	0.2	7.7	120	<20	<20	60	73	133	<20	<50	110	<100	110	<20	<50
	BH08_0.3_0.4	13 Jun 2025	1234275	2.3	<0.4	-	21	5.0	77	0.3	<5	40	-	-	-	-	-	-	-	-	-	-	-	-
	BH08_0.3_0.5	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH08_2_2.1	13 Jun 2025	1234275	<2	<0.4	-	<5	<5	<5	<0.1	<5	<5	-	-	-	-	-	-	-	-	-	-	-	-
	QC01_20250613	13 Jun 2025	1234275	<2	<0.4	-	<5	<5	<5	<0.1	<5	<5	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	QA01_20250613	13 Jun 2025	383658	<4	<0.4	-	<1	<1	<1	<0.1	<1	<1	<25	<50	<100	<100	<50	<25	<50	<100	<100	<50	<25	<50

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				Metals & Metalloids									TPHs (NEPC 1999)					TRHs (NEPC 2013)						
				Arsenic	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				2	0.4	1	1	1	1	0.1	1	1	20	20	50	50	50	20	50	100	100	50	20	50
NEPM 2013 Table 1A(1) HILs Res A Soil				100	20	100	100	6,000	300	40	400	7,400												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m																							45	110
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space				100			320	180	1,100		120	430												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				300	2,800		180	120
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				1,300	5,600		180	120
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																		700	1,000	2,500	10,000			
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																		800	1,000	3,500	10,000			
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																								
NSW 2014 General Solid Waste CT1 (No Leaching)				100	20	100	100		100	4	40		650				10,000							
NSW 2014 General Solid Waste SCC1 (with leached)				500	100	1,900	1,900		1,500	50	1,050		650				10,000							
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				400	80	400	400		400	16	160		2,600				40,000							
NSW 2014 Restricted Solid Waste SCC2 (with leached)				2,000	400	7,600	7,600		6,000	200	4,200		2,600				40,000							
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																								
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																								
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil																								
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																								
PFAS HIL A - Site Specific Exposure Scenario																								
Location Code	**Field ID**	**Date**	**Lab Report Number**																					
	BH08_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QC01_20250613_AQ	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA01_20250613_AQ	13 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09	BH09_0_0.1	16 Jun 2025	1234275	3.2	<0.4	-	<5	6.6	28	<0.1	<5	35	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	BH09_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10	BH10_0_0.1	16 Jun 2025	1234275	3.9	<0.4	-	13	23	75	0.2	<5	90	<20	<20	<50	57	57	<20	<50	<100	<100	<100	<20	<50
	BH10_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11	BH11/MW02_0_0.1	13 Jun 2025	1234275	7.3	<0.4	-	8.1	30	110	0.3	<5	110	<20	<20	84	63	147	<20	<50	110	<100	110	<20	<50
	BH11/MW02_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH11/MW02_9.9_10	13 Jun 2025	1234275	<2	<0.4	-	<5	<5	<5	<0.1	<5	<5	-	-	-	-	-	-	-	-	-	-	-	-
	BH11/MW02_FRAG	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12	BH12_0_0.1	17 Jun 2025	1234275	7.5	0.4	-	8.6	21	81	0.1	5.7	160	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	QC01_20250617_J	13 Jun 2025	1239729	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA01_20250617_J	17 Jun 2025	383658-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH12_0.3_0.4	17 Jun 2025	1234275	<2	<0.4	-	<5	<5	<5	<0.1	<5	8.5	-	-	-	-	-	-	-	-	-	-	-	-
	BH12_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH12_FRAG	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13	BH13_0_0.1	17 Jun 2025	1234275	3.9	<0.4	-	6.0	18	110	<0.1	<5	56	<20	<20	120	110	230	<20	<50	180	<100	180	<20	<50
	BH13_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_0_0.1	17 Jun 2025	1234275	12	<0.4	-	5.3	9.5	29	<0.1	<5	32	<20	35	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	BH14_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15	BH15_0.3_0.4	17 Jun 2025	1234275	<2	<0.4	-	<5	<5	<5	<0.1	<5	<5	-	-	-	-	-	-	-	-	-	-	-	-
	BH15_0_0.1	17 Jun 2025	1234275	6.6	0.5	-	15	22	81	0.1	12	170	<20	43	230	170	443	<20	60	330	<100	390	<20	60
	BH15_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16	BH16_0_0.1	18 Jun 2025	1234275	6.8	<0.4	-	6.5	31	130	0.3	5.2	120	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	BH16_0_0.3	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				Metals & Metalloids									TPHs (NEPC 1999)					TRHs (NEPC 2013)						
				Arsenic	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				2	0.4	1	1	1	1	0.1	1	1	20	20	50	50	50	20	50	100	100	50	20	50
NEPM 2013 Table 1A(1) HILs Res A Soil				100	20	100	100	6,000	300	40	400	7,400												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m																							45	110
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space				100			320	180	1,100		120	430												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																				300	2,800		180	120
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																				1,300	5,600		180	120
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																		700	1,000	2,500	10,000			
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																		800	1,000	3,500	10,000			
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																								
NSW 2014 General Solid Waste CT1 (No Leaching)				100	20	100	100		100	4	40		650				10,000							
NSW 2014 General Solid Waste SCC1 (with leached)				500	100	1,900	1,900		1,500	50	1,050		650				10,000							
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				400	80	400	400		400	16	160		2,600				40,000							
NSW 2014 Restricted Solid Waste SCC2 (with leached)				2,000	400	7,600	7,600		6,000	200	4,200		2,600				40,000							
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																								
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																								
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil																								
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																								
PFAS HIL A - Site Specific Exposure Scenario																								
Location Code	**Field ID**	**Date**	**Lab Report Number**																					
BH17	BH17_0_0.1	17 Jun 2025	1234275	<2	<0.4	-	5.2	19	45	<0.1	<5	29	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	BH17_0_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18	BH18_0.3_0.4	17 Jun 2025	1234275	<2	<0.4	-	<5	<5	<5	<0.1	<5	13	-	-	-	-	-	-	-	-	-	-	-	-
	BH18_0_0.1	17 Jun 2025	1234275	3.1	<0.4	-	<5	82	32	<0.1	<5	160	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	BH18_0_0.2	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19	BH19_0.5_0.6	17 Jun 2025	1234275	<2	<0.4	-	<5	5.4	17	<0.1	<5	18	-	-	-	-	-	-	-	-	-	-	-	-
	BH19_0_0.1	17 Jun 2025	1234275	2.5	<0.4	-	7.8	36	68	0.1	<5	36	<20	55	85	88	228	28	<50	140	<100	140	28	<50
	BH19_0_0.8	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH19_FRAG	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20	BH20_0_0.1	17 Jun 2025	1234275	<2	<0.4	-	<5	15	32	0.1	<5	20	<20	<20	<50	65	65	85	<50	<100	<100	<100	85	<50
	BH20_0_0.2	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21	BH21/MW03_0_0.1	18 Jun 2025	1234275	2.9	<0.4	-	20	31	51	<0.1	29	65	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50
	BH21/MW03_0_0.3	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH21/MW03_1_1.1	18 Jun 2025	1234275	<2	<0.4	-	<5	<5	<5	<0.1	<5	<5	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				BTEXN							PAHs																				
				Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene_VOC	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.1	0.1	0.1	0.1	0.05	0.5	0.5	0.5	0.5	0.2	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
NEPM 2013 Table 1A(1) HILs Res A Soil																3	3	3													300
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m				0.5	160	55			40	3																		3			
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space										170																		170			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil				50	85	70			105						0.7																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil				65	105	125			45						0.7																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																															
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																															
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																															
NSW 2014 General Solid Waste CT1 (No Leaching)				10	288	600			1,000						0.8																
NSW 2014 General Solid Waste SCC1 (with leached)				18	518	1,080			1,800						10																
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				40	1,152	2,400			4,000						3.2																
NSW 2014 Restricted Solid Waste SCC2 (with leached)				72	2,073	4,320			7,200						23																
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																															
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																															
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil																															
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																															
PFAS HIL A - Site Specific Exposure Scenario																															
Location Code	**Field ID**	**Date**	**Lab Report Number**																												
BH01	BH01_0_0.1	16 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	0.7	1.4	1.7	2.7	2.5	2.2	1.4	-	1.6	1.2	1.8	<0.5	3.6	<0.5	0.7	<0.5	2.5	3.4	20
	BH01_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02	BH02/MW01_0.3_0.5	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH02/MW01_0_0.1	13 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	0.7	1.3
	BH02/MW01_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH02/MW01_3_3.1	13 Jun 2025	1234275	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH03	BH03_0-0.1	13 Jun 2025	1244298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH03_0_0.1	16 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	0.5	0.5	1.2	0.9	0.6	<0.5	-	<0.5	<0.5	0.6	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	0.8	3.3
	BH03_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04	BH04_0_0.1	16 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH04_0.3_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH04_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QC01_20250616_AQ	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA01_20250616_AQ	16 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05	BH05_0_0.1	16 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	0.6	1.3
	QC02_20250616	16 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	0.8	1.5	1.6	2.6	2.3	2.1	0.9	-	1.5	1.4	1.6	<0.5	4.5	<0.5	0.8	<0.5	2.9	3.9	21
	QA02_20250616	16 Jun 2025	383658	<0.2	<0.5	<1	<1	<2	<1	<1	<0.1	<0.1	<0.1	0.3	0.3	0.5	<0.5	<0.5	-	0.5	0.2	-	0.3	<0.1	0.6	<0.1	0.2	<0.1	0.3	0.6	3.3
	BH05_0.3_0.4	16 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH05_0_0.5	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06	BH06_0.3_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH06_0_0.1	16 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH06_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07	BH07_0_0.1	16 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH07_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08	BH08_0_0.1	13 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH08_0.3_0.4	13 Jun 2025	1234275	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH08_0.3_0.5	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH08_2_2.1	13 Jun 2025	1234275	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	QC01_20250613	13 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	QA01_20250613	13 Jun 2025	383658	<0.2	<0.5	<1	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				BTEXN							PAHs																				
				Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene_VOC	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.1	0.1	0.1	0.1	0.05	0.5	0.5	0.5	0.5	0.2	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
NEPM 2013 Table 1A(1) HILs Res A Soil																3	3	3													300
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m				0.5	160	55			40	3																		3			
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space										170																		170			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil				50	85	70			105						0.7																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil				65	105	125			45						0.7																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																															
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																															
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																															
NSW 2014 General Solid Waste CT1 (No Leaching)				10	288	600			1,000						0.8																
NSW 2014 General Solid Waste SCC1 (with leached)				18	518	1,080			1,800						10																
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				40	1,152	2,400			4,000						3.2																
NSW 2014 Restricted Solid Waste SCC2 (with leached)				72	2,073	4,320			7,200						23																
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																															
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																															
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil																															
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																															
PFAS HIL A - Site Specific Exposure Scenario																															
Location Code	**Field ID**	**Date**	**Lab Report Number**																												
	BH08_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QC01_20250613_AQ	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA01_20250613_AQ	13 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09	BH09_0_0.1	16 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH09_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10	BH10_0_0.1	16 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH10_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11	BH11/MW02_0_0.1	13 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH11/MW02_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH11/MW02_9.9_10	13 Jun 2025	1234275	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH11/MW02_FRAG	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12	BH12_0_0.1	17 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	QC01_20250617_J	13 Jun 2025	1239729	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA01_20250617_J	17 Jun 2025	383658-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH12_0.3_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH12_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH12_FRAG	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13	BH13_0_0.1	17 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH13_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_0_0.1	17 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH14_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15	BH15_0.3_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH15_0_0.1	17 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH15_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16	BH16_0_0.1	18 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH16_0_0.3	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				BTEXN							PAHs																				
				Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene_VOC	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.1	0.1	0.1	0.1	0.05	0.5	0.5	0.5	0.5	0.2	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
NEPM 2013 Table 1A(1) HILs Res A Soil																3	3	3													300
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m				0.5	160	55			40	3																		3			
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space										170																		170			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil				50	85	70			105						0.7																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil				65	105	125			45						0.7																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																															
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																															
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																															
NSW 2014 General Solid Waste CT1 (No Leaching)				10	288	600			1,000						0.8																
NSW 2014 General Solid Waste SCC1 (with leached)				18	518	1,080			1,800						10																
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				40	1,152	2,400			4,000						3.2																
NSW 2014 Restricted Solid Waste SCC2 (with leached)				72	2,073	4,320			7,200						23																
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																															
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																															
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil																															
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																															
PFAS HIL A - Site Specific Exposure Scenario																															
Location Code	**Field ID**	**Date**	**Lab Report Number**																												
BH17	BH17_0_0.1	17 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH17_0_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18	BH18_0.3_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH18_0_0.1	17 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH18_0_0.2	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19	BH19_0.5_0.6	17 Jun 2025	1234275	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH19_0_0.1	17 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH19_0_0.8	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH19_FRAG	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20	BH20_0_0.1	17 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH20_0_0.2	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21	BH21/MW03_0_0.1	18 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	BH21/MW03_0_0.3	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH21/MW03_1_1.1	18 Jun 2025	1234275	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				Organochlorine Pesticides																							Polychlorinated Biphenyls								
				4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Res A Soil											6	50			240				10			6		10	300	20								1
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m																																		
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space													180																					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																		
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																																		
NSW 2014 General Solid Waste CT1 (No Leaching)																																		50
NSW 2014 General Solid Waste SCC1 (with leached)																																		50
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																																		50
NSW 2014 Restricted Solid Waste SCC2 (with leached)																																		50
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																																		
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																																		
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil																																		
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																																		
PFAS HIL A - Site Specific Exposure Scenario																																		
Location Code	**Field ID**	**Date**	**Lab Report Number**																															
BH01	BH01_0_0.1	16 Jun 2025	1234275	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1
	BH01_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02	BH02/MW01_0.3_0.5	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH02/MW01_0_0.1	13 Jun 2025	1234275	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1
	BH02/MW01_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH02/MW01_3_3.1	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03	BH03_0-0.1	13 Jun 2025	1244298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH03_0_0.1	16 Jun 2025	1234275	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1
	BH03_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04	BH04_0_0.1	16 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH04_0.3_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH04_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QC01_20250616_AQ	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA01_20250616_AQ	16 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05	BH05_0_0.1	16 Jun 2025	1234275	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1
	QC02_20250616	16 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	QA02_20250616	16 Jun 2025	383658	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH05_0.3_0.4	16 Jun 2025	1234275	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1
	BH05_0_0.5	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06	BH06_0.3_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH06_0_0.1	16 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH06_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07	BH07_0_0.1	16 Jun 2025	1234275	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1
	BH07_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08	BH08_0_0.1	16 Jun 2025	1234275	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1
	BH08_0.3_0.4	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH08_0.3_0.5	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH08_2_2.1	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QC01_20250613	13 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	QA01_20250613	13 Jun 2025	383658	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				Organochlorine Pesticides																						Polychlorinated Biphenyls							
				4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Res A Soil											6	50			240				10			6		10	300	20								1
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m																																		
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space													180																					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																		
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																																		
NSW 2014 General Solid Waste CT1 (No Leaching)																																		50
NSW 2014 General Solid Waste SCC1 (with leached)																																		50
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																																		50
NSW 2014 Restricted Solid Waste SCC2 (with leached)																																		50
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																																		
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																																		
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil																																		
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																																		
PFAS HIL A - Site Specific Exposure Scenario																																		
Location Code	**Field ID**	**Date**	**Lab Report Number**																															
	BH08_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QC01_20250613_AQ	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA01_20250613_AQ	13 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09	BH09_0_0.1	16 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH09_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10	BH10_0_0.1	16 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH10_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11	BH11/MW02_0_0.1	13 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.12	<0.1	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH11/MW02_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH11/MW02_9.9_10	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH11/MW02_FRAG	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12	BH12_0_0.1	17 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	QC01_20250617_J	13 Jun 2025	1239729	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA01_20250617_J	17 Jun 2025	383658-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH12_0.3_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH12_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH12_FRAG	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13	BH13_0_0.1	17 Jun 2025	1234275	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1
	BH13_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_0_0.1	17 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH14_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15	BH15_0.3_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH15_0_0.1	17 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH15_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16	BH16_0_0.1	18 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH16_0_0.3	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				Organochlorine Pesticides																							Polychlorinated Biphenyls								
				4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Res A Soil											6	50			240				10			6		10	300	20								1
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m																																		
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space													180																					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																		
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																																		
NSW 2014 General Solid Waste CT1 (No Leaching)																																		50
NSW 2014 General Solid Waste SCC1 (with leached)																																		50
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																																		50
NSW 2014 Restricted Solid Waste SCC2 (with leached)																																		50
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																																		
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																																		
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil																																		
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access																																		
PFAS HIL A - Site Specific Exposure Scenario																																		
Location Code	**Field ID**	**Date**	**Lab Report Number**																															
BH17	BH17_0_0.1	17 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH17_0_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18	BH18_0.3_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH18_0_0.1	17 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH18_0_0.2	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19	BH19_0.5_0.6	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH19_0_0.1	17 Jun 2025	1234275	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1
	BH19_0_0.8	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH19_FRAG	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20	BH20_0_0.1	17 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH20_0_0.2	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21	BH21/MW03_0_0.1	18 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	BH21/MW03_0_0.3	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH21/MW03_1_1.1	18 Jun 2025	1234275	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				PFAS																								
				Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorodecanesulfonic acid (PFDS)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0005	0.0005	0.0005	0.0005	0.005	0.001	0.001	0.001	0.001	0.005	0.0002	0.0002	0.005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
NEPM 2013 Table 1A(1) HILs Res A Soil																												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m																												
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																												
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																												
NSW 2014 General Solid Waste CT1 (No Leaching)																												
NSW 2014 General Solid Waste SCC1 (with leached)								18																				
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																												
NSW 2014 Restricted Solid Waste SCC2 (with leached)								72																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses								10																		1		
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses								0.003																		0.14		
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil								0.06																	0.003	0.003		
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access								20																	2	2		
PFAS HIL A - Site Specific Exposure Scenario								5																				
Location Code	**Field ID**	**Date**	**Lab Report Number**																									
BH01	BH01_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH01_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02	BH02/MW01_0.3_0.5	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH02/MW01_0_0.1	13 Jun 2025	1234275	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	BH02/MW01_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH02/MW01_3_3.1	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03	BH03_0-0.1	13 Jun 2025	1244298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH03_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH03_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04	BH04_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH04_0.3_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH04_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QC01_20250616_AQ	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA01_20250616_AQ	16 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05	BH05_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QC02_20250616	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA02_20250616	16 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH05_0.3_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH05_0_0.5	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06	BH06_0.3_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH06_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH06_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07	BH07_0_0.1	16 Jun 2025	1234275	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	BH07_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08	BH08_0_0.1	13 Jun 2025	1234275	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	BH08_0.3_0.4	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH08_0.3_0.5	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH08_2_2.1	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QC01_20250613	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA01_20250613	13 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				PFAS																								
				Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorodecanesulfonic acid (PFDS)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0005	0.0005	0.0005	0.0005	0.005	0.001	0.001	0.001	0.001	0.005	0.0002	0.0002	0.005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
NEPM 2013 Table 1A(1) HILs Res A Soil																												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m																												
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																												
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																												
NSW 2014 General Solid Waste CT1 (No Leaching)																												
NSW 2014 General Solid Waste SCC1 (with leached)								18																				
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																												
NSW 2014 Restricted Solid Waste SCC2 (with leached)								72																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses								10																			1	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses								0.003																			0.14	
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil								0.06																	0.003		0.003	
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access								20																	2		2	
PFAS HIL A - Site Specific Exposure Scenario								5																				
Location Code	**Field ID**	**Date**	**Lab Report Number**																									
	BH08_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QC01_20250613_AQ	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA01_20250613_AQ	13 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09	BH09_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH09_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10	BH10_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH10_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11	BH11/MW02_0_0.1	13 Jun 2025	1234275	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	BH11/MW02_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH11/MW02_9.9_10	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH11/MW02_FRAG	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12	BH12_0_0.1	17 Jun 2025	1234275	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	QC01_20250617_J	13 Jun 2025	1239729	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	QA01_20250617_J	17 Jun 2025	383658-A	<0.0002	<0.0002	<0.0001	<0.0001	0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0002	<0.0002	-	<0.0001	<0.0001	<0.0001	<0.0001	0.0034	<0.0002
	BH12_0.3_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH12_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH12_FRAG	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13	BH13_0_0.1	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH13_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_0_0.1	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH14_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15	BH15_0.3_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH15_0_0.1	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH15_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16	BH16_0_0.1	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH16_0_0.3	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				PFAS																								
				Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorodecanesulfonic acid (PFDS)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0005	0.0005	0.0005	0.0005	0.005	0.001	0.001	0.001	0.001	0.005	0.0002	0.0002	0.005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
NEPM 2013 Table 1A(1) HILs Res A Soil																												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m																												
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																												
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																												
NSW 2014 General Solid Waste CT1 (No Leaching)																												
NSW 2014 General Solid Waste SCC1 (with leached)								18																				
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																												
NSW 2014 Restricted Solid Waste SCC2 (with leached)								72																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses								10																		1		
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses								0.003																		0.14		
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil								0.06																	0.003	0.003		
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access								20																	2	2		
PFAS HIL A - Site Specific Exposure Scenario								5																				
Location Code	**Field ID**	**Date**	**Lab Report Number**																									
BH17	BH17_0_0.1	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH17_0_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18	BH18_0.3_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH18_0_0.1	17 Jun 2025	1234275	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	BH18_0_0.2	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19	BH19_0.5_0.6	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH19_0_0.1	17 Jun 2025	1234275	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	BH19_0_0.8	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH19_FRAG	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20	BH20_0_0.1	17 Jun 2025	1234275	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	BH20_0_0.2	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21	BH21/MW03_0_0.1	18 Jun 2025	1234275	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	BH21/MW03_0_0.3	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH21/MW03_1_1.1	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				PFAS										Ionic Balance			Asbestos											Other
				1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of WA DWER PFAS (n=10)*	Sum of PFAS	Perfluorononanesulfonic acid ion	CEC	Conductivity (1:5 aqueous extract)	pH (aqueous extract)	Approximate Sample Mass	ACM Comment	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Mass Asbestos in FA & AF	Asbestos FA & AF in Soil	Moisture Content (dried @ 103°C)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/KG	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	g		g	g	% (w/w)	g	g	g	g	g	% (w/w)	%
EQL				0.0001	0.0001	0.0002	0.0002	0.0001	0.005	0.0001	0.01	0.0001	0.005	0.5	10	0.1												1
NEPM 2013 Table 1A(1) HILs Res A Soil																												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m																												
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																												
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																					0.01						0.001	
NSW 2014 General Solid Waste CT1 (No Leaching)																												
NSW 2014 General Solid Waste SCC1 (with leached)								1.8																				
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																												
NSW 2014 Restricted Solid Waste SCC2 (with leached)								7.2																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																												
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																												
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil								0.003																				
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access								2																				
PFAS HIL A - Site Specific Exposure Scenario								0.5																				
Location Code	**Field ID**	**Date**	**Lab Report Number**																									
BH01	BH01_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
	BH01_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	695	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH02	BH02/MW01_0.3_0.5	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	1,062	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
	BH02/MW01_0_0.1	13 Jun 2025	1234275	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	8.4	21	6.5	-	-	-	-	-	-	-	-	-	-	-	8.2
	BH02/MW01_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	739	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
	BH02/MW01_3_3.1	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6
BH03	BH03_0-0.1	13 Jun 2025	1244298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
	BH03_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
	BH03_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	640	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH04	BH04_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
	BH04_0.3_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
	BH04_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	823	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
	QC01_20250616_AQ	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	850	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
	QA01_20250616_AQ	16 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	874.51	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH05	BH05_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6
	QC02_20250616	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
	QA02_20250616	16 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
	BH05_0.3_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.8
	BH05_0_0.5	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	782	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH06	BH06_0.3_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5
	BH06_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
	BH06_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	776	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH07	BH07_0_0.1	16 Jun 2025	1234275	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.0
	BH07_0_0.4	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	697	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH08	BH08_0_0.1	13 Jun 2025	1234275	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
	BH08_0.3_0.4	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6
	BH08_0.3_0.5	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	787	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
	BH08_2_2.1	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4
	QC01_20250613	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0
	QA01_20250613	13 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

	PFAS										Ionic Balance			Asbestos										Other
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of WA DWER PFAS (n=10)*	Sum of PFAS	Perfluorononanesulfonic acid ion	CEC	Conductivity (1:5 aqueous extract)	pH (aqueous extract)	Approximate Sample Mass	ACM Comment	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Mass Asbestos in FA & AF	Asbestos FA & AF in Soil	Moisture Content (dried @ 103°C)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/KG	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	g		g	g	% (w/w)	g	g	g	g	g	% (w/w)	%
EQL	0.0001	0.0001	0.0002	0.0002	0.0001	0.005	0.0001	0.01	0.0001	0.005	0.5	10	0.1											1
NEPM 2013 Table 1A(1) HILs Res A Soil																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m																								
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																								
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																		0.01					0.001	
NSW 2014 General Solid Waste CT1 (No Leaching)																								
NSW 2014 General Solid Waste SCC1 (with leached)					1.8																			
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																								
NSW 2014 Restricted Solid Waste SCC2 (with leached)					7.2																			
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																								
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																								
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil					0.003																			
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access					2																			
PFAS HIL A - Site Specific Exposure Scenario					0.5																			

Location Code	Field ID	Date	Lab Report Number																							
	BH08_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	833	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
	QC01_20250613_AQ	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	741	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
	QA01_20250613_AQ	13 Jun 2025	383658	-	-	-	-	-	-	-	-	-	-	-	-	-	843.65	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH09	BH09_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8
	BH09_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	846	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH10	BH10_0_0.1	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
	BH10_0_0.3	16 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	778	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH11	BH11/MW02_0_0.1	13 Jun 2025	1234275	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
	BH11/MW02_0_0.3	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	824	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
	BH11/MW02_9.9_10	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
	BH11/MW02_FRAG	13 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH12	BH12_0_0.1	17 Jun 2025	1234275	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
	QC01_20250617_J	13 Jun 2025	1239729	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
	QA01_20250617_J	17 Jun 2025	383658-A	<0.0001	<0.0001	<0.0002	<0.0002	0.0034	-	0.0035	-	0.0035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
	BH12_0.3_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2
	BH12_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	772	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
	BH12_FRAG	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	20	Chrysotile, amosite and crocidolite asbestos detected	-	-	-	-	-	-	-	-	-	-
BH13	BH13_0_0.1	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4
	BH13_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	639	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH14	BH14_0_0.1	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8
	BH14_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	788	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH15	BH15_0.3_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3
	BH15_0_0.1	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3
	BH15_0_0.3	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	770	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH16	BH16_0_0.1	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.5
	BH16_0_0.3	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	691	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-

Table A: Soil Analytical Results
Project Number: 69149
Project Name: Pagewood

				PFAS										Ionic Balance			Asbestos											Other
				1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of WA DWER PFAS (n=10)*	Sum of PFAS	Perfluorononanesulfonic acid ion	CEC	Conductivity (1:5 aqueous extract)	pH (aqueous extract)	Approximate Sample Mass	ACM Comment	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Mass Asbestos in FA & AF	Asbestos FA & AF in Soil	Moisture Content (dried @ 103°C)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/KG	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	g		g	g	% (w/w)	g	g	g	g	g	% (w/w)	%
EQL				0.0001	0.0001	0.0002	0.0002	0.0001	0.005	0.0001	0.01	0.0001	0.005	0.5	10	0.1												1
NEPM 2013 Table 1A(1) HILs Res A Soil																												
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m																												
NEPM 2013 Table 1B(1-5) Site Specific EIL - Urban Residential and Public Open Space																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																												
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																												
NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil																				0.01						0.001		
NSW 2014 General Solid Waste CT1 (No Leaching)																												
NSW 2014 General Solid Waste SCC1 (with leached)								1.8																				
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																												
NSW 2014 Restricted Solid Waste SCC2 (with leached)								7.2																				
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses																												
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses																												
PFAS NEMP 3.0 (2025) HIL A - Residential with Garden/Accessible Soil								0.003																				
PFAS NEMP 3.0 (2025) HIL B - Residential with Minimal Soil Access								2																				
PFAS HIL A - Site Specific Exposure Scenario								0.5																				
Location Code	**Field ID**	**Date**	**Lab Report Number**																									
BH17	BH17_0_0.1	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
	BH17_0_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	853	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH18	BH18_0.3_0.4	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	0.7	<10	6.4	-	-	-	-	-	-	-	-	-	-	-	6.5
	BH18_0_0.1	17 Jun 2025	1234275	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
	BH18_0_0.2	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	770	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH19	BH19_0.5_0.6	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8
	BH19_0_0.1	17 Jun 2025	1234275	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
	BH19_0_0.8	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	808	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
	BH19_FRAG	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	9	Chrysotile asbestos detected	-	-	-	-	-	-	-	-	-	-
BH20	BH20_0_0.1	17 Jun 2025	1234275	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5
	BH20_0_0.2	17 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	919	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
BH21	BH21/MW03_0_0.1	18 Jun 2025	1234275	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
	BH21/MW03_0_0.3	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	765	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
	BH21/MW03_1_1.1	18 Jun 2025	1234275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0

Table B: TCLP Analytical Results
Project Number: 69149
Project Name: Pagewood

	Metals & Metalloids								PAH																
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.01	0.005	0.05	0.05	0.01	0.001	0.01	0.05	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
NSW 2014 General Solid Waste TCLP1 (leached)	5	1	5	0.05	5	0.2	2						0.04												
NSW 2014 Restricted Solid Waste TCLP2 (leached)	20	4	20		20	0.8	8						0.16												
Location Code	**Field ID**	**Date**	**Lab Report Number**																								
BH01	BH01_0-0.1	13 Jun 2025	1239729	0.01	<0.005	<0.05	<0.05	0.26	<0.001	<0.01	0.60	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BH03	BH03_0-0.1	13 Jun 2025	1239729	<0.01	<0.005	<0.05	<0.05	0.43	<0.001	<0.01	0.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12	QA01_20250617_J	17 Jun 2025	383658-B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: TCLP Analytical Results
Project Number: 69149
Project Name: Pagewood

					PFAS																					
					Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorodecanesulfonic acid (PFDS)	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL					0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.1	0.5	0.1	0.05	0.1	0.05	0.5	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01
NSW 2014 General Solid Waste TCLP1 (leached)									500																				
NSW 2014 Restricted Solid Waste TCLP2 (leached)									2,000																				
Location Code	**Field ID**	**Date**	**Lab Report Number**																										
BH01	BH01_0-0.1	13 Jun 2025	1239729	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03	BH03_0-0.1	13 Jun 2025	1239729	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12	QA01_20250617_J	17 Jun 2025	383658-B	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.05	<0.1	<0.5	<0.1	<0.05	<0.1	<0.05	<0.5	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	0.03	<0.02	<0.01

Table B: TCLP Analytical Results
Project Number: 69149
Project Name: Pagewood

	PFAS						Ionic Balance		
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	Sum of PFHxS and PFOS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFAS	pH (after HCL)	pH (Final)	pH (Initial)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH Units	pH Units	pH Units
EQL	0.01	0.02	0.02	0.01	0.01	0.01	0.1	0.1	0.1
NSW 2014 General Solid Waste TCLP1 (leached)				50					
NSW 2014 Restricted Solid Waste TCLP2 (leached)				200					

Location Code	Field ID	Date	Lab Report Number									
BH01	BH01_0-0.1	13 Jun 2025	1239729	-	-	-	-	-	-	1.6	4.9	7.9
BH03	BH03_0-0.1	13 Jun 2025	1239729	-	-	-	-	-	-	1.5	4.9	7.6
BH12	QA01_20250617_J	17 Jun 2025	383658-B	<0.01	<0.02	<0.02	0.03	0.03	0.03	-	-	-

Table C: Asbestos Quantification Field Results
Project Number: 69149
Project Name: Pagewood

			Asbestos Field Result				
			Approximate Volume of Soil	Approx. Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in soil
			L	g	g	g	%w/w
EQL							
NEPM 2013 HSL Asbestos in Soil - Res A							0.01
NEPM 2013 HSL Asbestos in Soil - Res B							0.04
Sample ID	**Depth (m)**	**Date**					
BH01	0-0.3	16/06/2025	10	16500	0	0	0
BH02/MW01	0-0.3	13/06/2025	10	16500	0	0	0
BH03	0-0.4	16/06/2025	10	16500	0	0	0
BH04	0-0.4	16/06/2025	10	16500	0	0	0
BH05	0-0.5	16/06/2025	10	16500	0	0	0
BH06	0-0.4	16/06/2025	10	16500	0	0	0
BH07	0-0.4	16/06/2025	10	16500	0	0	0
BH08	0-0.3	13/06/2025	10	16500	0	0	0
BH09	0-0.3	16/06/2025	10	16500	0	0	0
BH10	0-0.3	16/06/2025	10	16500	0	0	0
BH11/MW02	0-0.3	13/06/2025	10	16500	18	2.7	0.0164
BH12	0-0.3	17/06/2025	10	16500	20	3	0.0182
BH13	0-0.3	17/06/2025	10	16500	0	0	0
BH14	0-0.3	17/06/2025	10	16500	0	0	0
BH15	0-0.3	17/06/2025	10	16500	0	0	0
BH16	0-0.3	18/06/2025	10	16500	0	0	0
BH17	0-0.4	17/06/2025	10	16500	0	0	0
BH18	0-0.2	17/06/2025	10	16500	0	0	0
BH19	0-0.8	17/06/2025	10	16500	9	1.35	0.0082
BH20	0-0.2	17/06/2025	10	16500	0	0	0
BH21/MW03	0-0.3	18/06/2025	10	16500	0	0	0

Table D: Groundwater Parameters
Project Number: 69149
Project Name: Pagewood

Sample Location ID	Sample Date	Top of Casing	Depth to Water	Standing Water Level	Total Well Depth	Dissolved Oxygen	Temperature	pH	Electrical Conductivity	Reduction Oxidation Potential	Comments
		mAHD	m btoc	m AHD	m btoc	mg/L	˚C	-	µs/cm	mV	
BH02/MW01	30/06/2025	21.554	5.800	15.754	8.7	6.45	20.8	4.84	130	121.2	clear, colourless, no sheen, no odour
BH11/MW02	30/06/2025	20.981	5.470	15.511	10.0	6.33	19.3	5.51	165	195.0	clear, light grey, no sheen, no odour
BH21/MW03	30/06/2025	20.49	5.275	15.215	10.0	6.09	18.8	5.01	149	203.2	clear, colourless, no sheen, no odour

Table E: Groundwater Analytical Results
Project Number: 69149
Project Name: Pagewood

	Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	Arsenic (filtered)	Cadmium (filtered)	Chromium (III+VI) (filtered)	Copper (filtered)	Lead (filtered)	Mercury (filtered)	Nickel (filtered)	Zinc (filtered)	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene_VOC
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.0001	0.001	0.001	0.001	0.00005	0.001	0.001	0.01	0.05	0.1	0.1	0.05	0.01	0.05	0.1	0.1	0.05	0.01	0.05	0.001	0.001	0.001	0.001	0.002	0.003	0.001
ADWG (2011) Health x 10 (Recreational) - Updated June 2025	0.1	0.02	0.5	20	0.1	0.01	0.2														0.01	8	3	6	6	6	
ANZG (2018) Marine water 95% toxicant DGVs		0.0055	0.0044	0.0013	0.0044	0.0004	0.07	0.008													0.7	0.18	0.08		0.075		0.07
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																			1	1	0.8						
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																											
PFAS NEMP 3.0 (2025) Interim marine 99% species protection																											

Field ID	Date	Lab Report Number																									
MW01	30 Jun 2025	1239171/1244378	<0.001	<0.0002	0.001	0.001	<0.001	<0.0001	<0.001	<0.005	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.01
MW02	30 Jun 2025	1239171/1244378	<0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	<0.001	<0.005	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.01
QC01_20250630	30 Jun 2025	1239171/1244378	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.005	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.01
QA01_20250630	30 Jun 2025	384779/384779-A	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.00005	<0.001	<0.001	<0.01	<0.05	<0.1	<0.1	<0.05	<0.01	<0.05	<0.1	<0.1	<0.05	<0.01	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	-	<0.001
MW03	30 Jun 2025	1239171/1244378	<0.001	<0.0002	0.001	<0.001	<0.001	<0.0001	<0.001	<0.005	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.01

Table E: Groundwater Analytical Results
Project Number: 69149
Project Name: Pagewood

			PAH																
			Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL			0.0001	0.0001	0.0001	0.0001	0.0001	0.0005	0.001	0.0002	0.0001	0.001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.001
ADWG (2011) Health x 10 (Recreational) - Updated June 2025							0.0001														
ANZG (2018) Marine water 95% toxicant DGVs					0.0004		0.0002								0.0014			0.07	0.002		
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																					
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																					
PFAS NEMP 3.0 (2025) Interim marine 99% species protection																					
Field ID	**Date**	**Lab Report Number**																			
MW01	30 Jun 2025	1239171/1244378	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW02	30 Jun 2025	1239171/1244378	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
QC01_20250630	30 Jun 2025	1239171/1244378	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
QA01_20250630	30 Jun 2025	384779/384779-A	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	-	<0.0002	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-
MW03	30 Jun 2025	1239171/1244378	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table E: Groundwater Analytical Results
Project Number: 69149
Project Name: Pagewood

			Chlorinated Alkanes																	Chlorinated Alkenes										Solvents
			1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	Vinyl Chloride	1,1-dichloroethene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Acetone
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005
ADWG (2011) Health x 10 (Recreational) - Updated June 2025										0.03					0.03				0.04		0.003	0.3			0.6		0.5	0.6			140
ANZG (2018) Marine water 95% toxicant DGVs				0.27	0.4	1.9				1.9	0.9	1.1			0.24				4		0.1	0.7					0.07			0.33	
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																															
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																															
PFAS NEMP 3.0 (2025) Interim marine 99% species protection																															
Field ID	**Date**	**Lab Report Number**																													
MW01	30 Jun 2025	1239171/1244378	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
MW02	30 Jun 2025	1239171/1244378	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
QC01_20250630	30 Jun 2025	1239171/1244378	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
QA01_20250630	30 Jun 2025	384779/384779-A	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-
MW03	30 Jun 2025	1239171/1244378	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005

Table E: Groundwater Analytical Results
Project Number: 69149
Project Name: Pagewood

			PFAS																										
			Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorodecanesulfonic acid (PFDS)	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.0001	0.001	0.001
ADWG (2011) Health x 10 (Recreational) - Updated June 2025							2															10		0.3		0.08		
ANZG (2018) Marine water 95% toxicant DGVs																													
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																													
PFAS NEMP 3.0 (2025) Interim marine 95% species protection							220																			0.13		
PFAS NEMP 3.0 (2025) Interim marine 99% species protection							19																			0.00023		
Field ID	**Date**	**Lab Report Number**																											
MW01	30 Jun 2025	1239171/1244378	<0.005	0.003	0.005	0.005	0.018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.003	<0.001	0.012	0.002	0.0020	<0.001	<0.001
MW02	30 Jun 2025	1239171/1244378	<0.005	0.002	0.004	0.003	0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.002	<0.001	0.028	0.002	0.029	<0.001	<0.001
QC01_20250630	30 Jun 2025	1239171/1244378	<0.005	0.002	0.004	0.003	0.026	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.002	<0.001	0.029	0.002	0.033	<0.001	<0.001
QA01_20250630	30 Jun 2025	384779/384779-A	0.003	0.004	0.002	0.005	0.029	<0.001	<0.002	<0.002	<0.005	<0.02	<0.1	<0.01	<0.05	<0.1	<0.05	<0.5	<0.002	<0.002	-	0.003	0.001	0.035	0.003	0.038	<0.002	<0.001
MW03	30 Jun 2025	1239171/1244378	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	0.002	<0.001	0.0017	<0.001	<0.001

Table E: Groundwater Analytical Results
Project Number: 69149
Project Name: Pagewood

			PFAS								MAH											Miscellaneous Hydrocarbons						
			1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of WA DWER PFAS (n=10)*	Sum of PFAS	Perfluorononanesulfonic acid ion	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL			0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.005	0.005
ADWG (2011) Health x 10 (Recreational) - Updated June 2025																		0.3					0.01	0.01					
ANZG (2018) Marine water 95% toxicant DGVs																						0.03							
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																													
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																													
PFAS NEMP 3.0 (2025) Interim marine 99% species protection																													
Field ID	**Date**	**Lab Report Number**																											
MW01	30 Jun 2025	1239171/1244378	<0.005	<0.001	<0.001	0.014	0.032	0.02	0.048	0.05	<0.001	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005
MW02	30 Jun 2025	1239171/1244378	<0.005	<0.001	<0.001	0.057	0.082	0.054	0.093	0.095	<0.001	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005
QC01_20250630	30 Jun 2025	1239171/1244378	<0.005	<0.001	<0.001	0.062	0.088	0.059	0.099	0.101	<0.001	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005
QA01_20250630	30 Jun 2025	384779/384779-A	<0.001	<0.002	<0.002	0.073	-	0.067	-	0.12	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	-	-	-
MW03	30 Jun 2025	1239171/1244378	<0.005	<0.001	<0.001	0.0037	0.0037	0.0017	<0.005	<0.005	<0.001	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005

Table E: Groundwater Analytical Results
Project Number: 69149
Project Name: Pagewood

	Chlorinated Benzenes						Trihalomethanes				Organic Sulfur Compounds	Non-Metallic Inorganics							Ionic Balance		Inorganics		Other
	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	Ammonia as N (filtered)	Nitrate (as N)	Nitrate (as N) (filtered)	Nitrite (as N)	Nitrite (as N) (filtered)	Nitrogen (Total)	Kjeldahl Nitrogen Total	Electrical Conductivity (Lab)	pH (Lab)	Electrical Conductivity (Non Compensated)	Nitrite + Nitrate as N	TDS
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	pH Units	µS/cm	mg/L	mg/L
EQL	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.2	0.1	10	0.1	1	0.05	5
ADWG (2011) Health x 10 (Recreational) - Updated June 2025			15		0.4	3							112.9	112.9	9.1	9.1							
ANZG (2018) Marine water 95% toxicant DGVs		0.08				0.055		0.77				0.91											
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																							
PFAS NEMP 3.0 (2025) Interim marine 95% species protection																							
PFAS NEMP 3.0 (2025) Interim marine 99% species protection																							

Field ID	Date	Lab Report Number																						
MW01	30 Jun 2025	1239171/1244378	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	-	4.5	-	<0.02	-	5.2	0.7	150	6.6	-	4.5	86
MW02	30 Jun 2025	1239171/1244378	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	-	3.8	-	<0.02	-	4.5	0.7	200	6.6	-	3.8	130
QC01_20250630	30 Jun 2025	1239171/1244378	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	-	3.9	-	<0.02	-	4.8	0.9	190	6.7	-	3.9	130
QA01_20250630	30 Jun 2025	384779/384779-A	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	0.02	-	3.4	-	<0.005	-	0.1	-	6.5	180	-	130
MW03	30 Jun 2025	1239171/1244378	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	-	6.5	-	<0.02	-	7.5	1.0	180	6.0	-	6.5	120

Appendix A Photographic Log

PHOTO 1. NORTHERN PORTION OF THE SITE FACING EAST (11/06/2025)

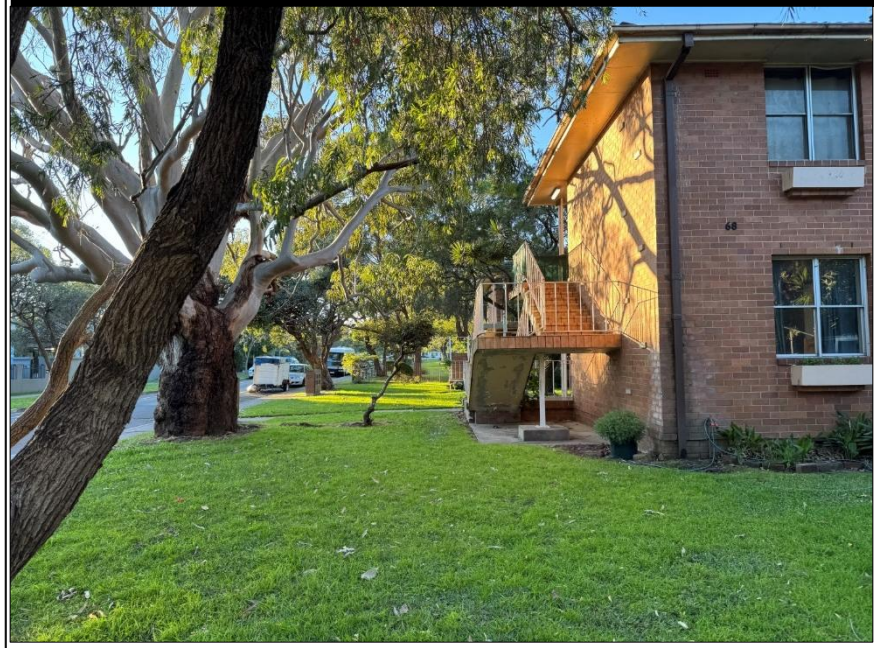
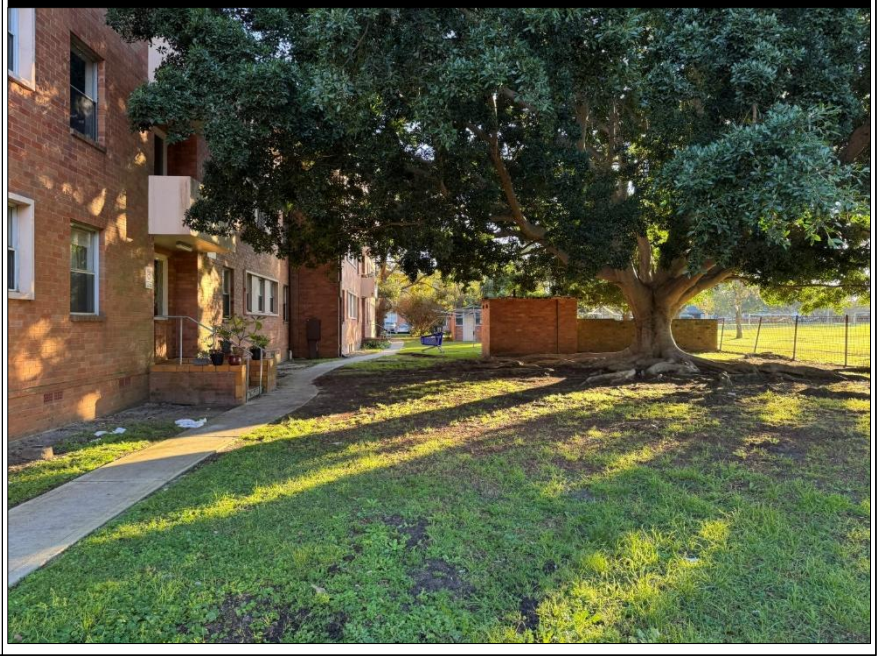


PHOTO 2. NORTHERN PORTION OF THE SITE FACING SOUTH (11/06/2025)

PHOTO 3. CENTRAL PORTION OF THE SITE FACING SOUTH (11/06/2025)

PHOTO 4. CENTRAL PORTION OF THE SITE FACING NORTH (11/06/2025)



JBS&G

Job No: 69149	
Client: Homes NSW	
Version: Rev 0	Date: 7/07/2025
Drawn By: NB	Checked By: LH
Not to Scale	
Coord. Sys n/a	

68-80 Banks Avenue, Pagewood, NSW

11/06/2025 – 30/06/2025

APPENDIX A

PHOTO 5. CENTRAL PORTION OF THE SITE FACING NORTH (11/06/2025)

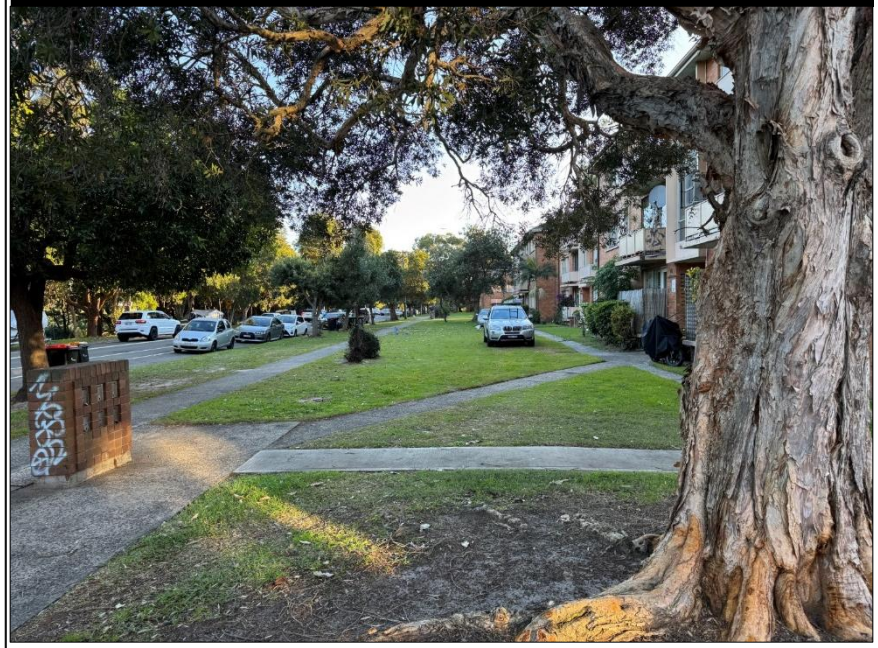


PHOTO 6. SOUTHERN PORTION OF THE SITE FACING EAST (11/06/2025)

PHOTO 7. SOUTHERN PORTION OF THE SITE FACING NORTH (11/06/2025)

PHOTO 8. SOUTHERN PORTION OF THE SITE FACING WEST (11/06/2025)

JBS&G

Job No: 69149	
Client: Homes NSW	
Version: Rev 0	Date: 7/07/2025
Drawn By: NB	Checked By: LH
Not to Scale	
Coord. Sys n/a	

68-80 Banks Avenue, Pagewood, NSW

11/06/2025 – 30/06/2025

APPENDIX A

PHOTO 9. FILL MATERIAL OBSERVED AT BH09 (16/06/2025)

PHOTO 10. FILL MATERIAL OBSERVED AT BH06 (16/06/2025)

PHOTO 11. FILL MATERIAL OBSERVED AT BH11 (13/06/2025)

PHOTO 12. ACM FRAGMENT OBSERVED AT BH11 (13/06/2025)

JBS&G

Job No: 69149

Client: Homes NSW

Version: Rev 0	Date: 7/07/2025
Drawn By: NB	Checked By: LH

Not to Scale

Coord. Sys n/a

68-80 Banks Avenue, Pagewood, NSW

11/06/2025 – 30/06/2025

APPENDIX A

PHOTO 13. FILL MATERIAL OBSERVED AT BH12 (17/06/2025)

PHOTO 14. TERRACOTTA PIECES OBSERVED AT BH20 (17/06/2025)

PHOTO 15. ACM FRAGMENT OBSERVED ON SURFACE NEAR BH19 (17/06/2025)

PHOTO 16. GLASS FRAGMENT OBSERVED AT BH15 (17/06/2025)

JBS&G

Job No: 69149	
Client: Homes NSW	
Version: Rev 0	Date: 7/07/2025
Drawn By: NB	Checked By: LH
Not to Scale	
Coord. Sys n/a	

68-80 Banks Avenue, Pagewood, NSW

11/06/2025 – 30/06/2025

APPENDIX A

PHOTO 17. NATURAL MATERIAL OBSERVED AT BH02 (13/06/2025)

PHOTO 18. NATURAL MATERIAL OBSERVED AT BH11 (13/06/2025)

PHOTO 19. NATURAL MATERIAL OBSERVED AT BH01 (16/06/2025)

PHOTO 20. NATURAL MATERIAL OBSERVED AT BH13 (17/06/2025)

JBS&G

Job No: 69149	
Client: Homes NSW	
Version: Rev 0	Date: 7/07/2025
Drawn By: NB	Checked By: LH
Not to Scale	
Coord. Sys n/a	

68-80 Banks Avenue, Pagewood, NSW

11/06/2025 – 30/06/2025

APPENDIX A

PHOTO 21. NATURAL MATERIAL OBSERVED AT BH14 (17/06/2025)

PHOTO 22. NATURAL MATERIAL OBSERVED AT BH16 (18/06/2025)

PHOTO 23. NATURAL MATERIAL OBSERVED AT BH21 (18/06/2025)

PHOTO 24. NATURAL MATERIAL OBSERVED AT BH21 (18/06/2025)

JBS&G

Job No: 69149

Client: Homes NSW

Version: Rev 0	Date: 7/07/2025
Drawn By: NB	Checked By: LH

Not to Scale

Coord. Sys n/a

68-80 Banks Avenue, Pagewood, NSW

11/06/2025 – 30/06/2025

APPENDIX A

PHOTO 25. GROUNDWATER OBSERVED AT MW03 (30/06/2025)

PHOTO 26. GROUNDWATER OBSERVED AT MW01 (30/06/2025)

JBS&G

Job No: 69149

Client: Homes NSW

Version: Rev 0 | Date: 7/07/2025

Drawn By: NB | Checked By: LH

Not to Scale

Coord. Sys n/a

68-80 Banks Avenue, Pagewood, NSW

11/06/2025 – 30/06/2025

APPENDIX A

Appendix B Lotsearch Report

LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 06 May 2025 13:42:35

Reference: LS080974 EP

Address: 68-80 Banks Avenue, Pagewood, NSW 2035

Dataset Listing

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

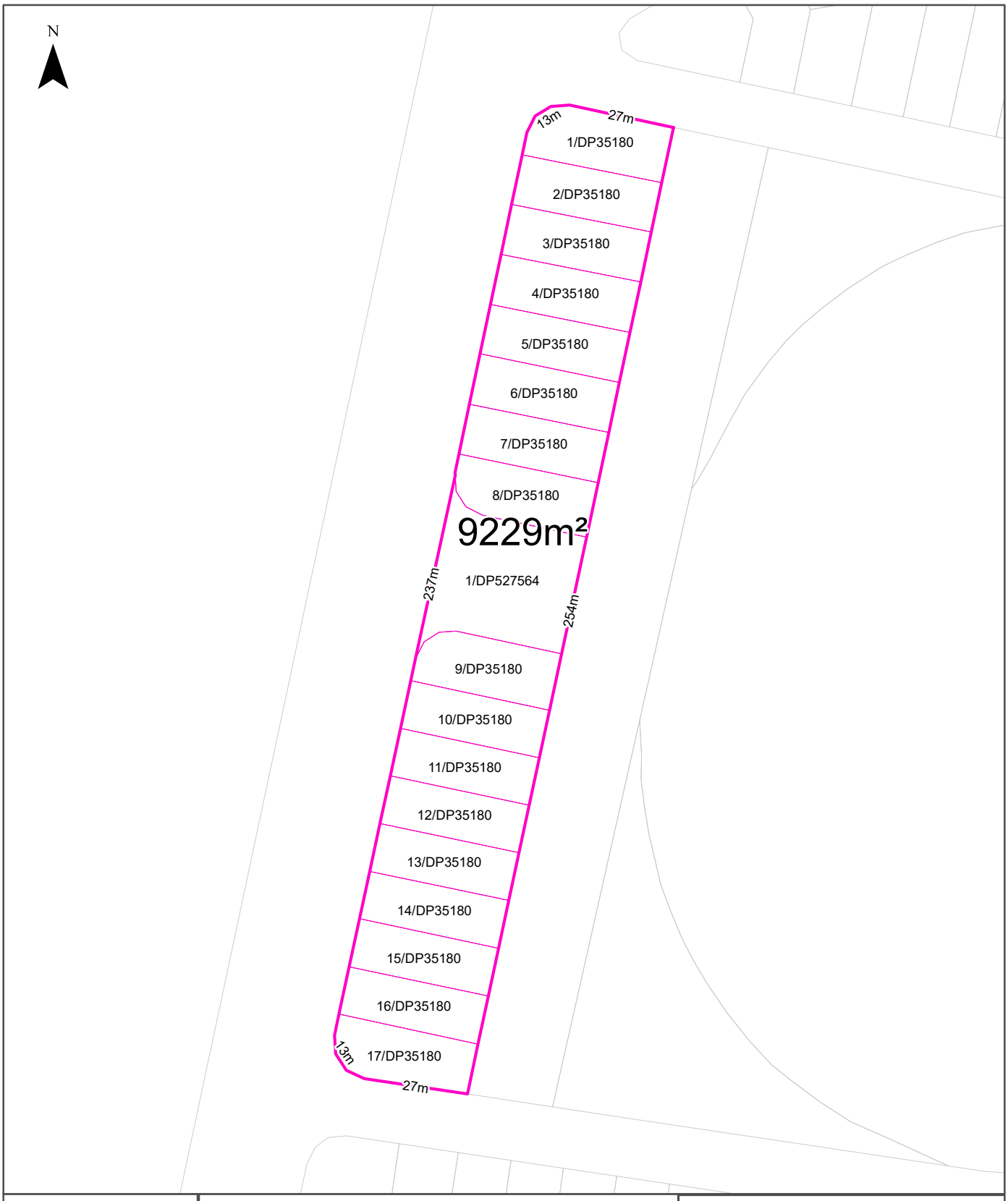
Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	22/04/2025	22/04/2025	Monthly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	21/05/2024	21/05/2024	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority NSW	08/04/2025	20/03/2025	Monthly	1000m	0	0	7
Contaminated Land Records of Notice	Environment Protection Authority NSW	08/04/2025	08/04/2025	Monthly	1000m	0	0	2
Former Gasworks	Environment Protection Authority NSW	21/02/2025	14/07/2021	Quarterly	1000m	0	0	0
Notices under the POEO Act 1997	Environment Protection Authority NSW	28/04/2025	28/04/2025	Monthly	1000m	0	0	2
National Waste Management Facilities Database	Geoscience Australia	29/04/2024	29/11/2022	Annually	1000m	0	0	4
National Liquid Fuel Facilities	Geoscience Australia	16/10/2024	19/01/2023	Annually	1000m	0	0	2
EPA PFAS Investigation Program	Environment Protection Authority NSW	28/04/2025	05/02/2025	Monthly	2000m	0	0	1
Defence PFAS Investigation & Management Program - Investigation Sites	Australian Department of Defence	07/04/2025	28/10/2024	Monthly	2000m	0	0	1
Defence PFAS Investigation & Management Program - Management Sites	Australian Department of Defence	07/04/2025	28/10/2024	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	07/04/2025	07/04/2025	Monthly	2000m	0	0	0
Defence Controlled Areas	Australian Department of Defence	10/04/2025	10/04/2025	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Australian Department of Defence	18/02/2025	02/09/2022	Quarterly	2000m	0	0	1
National Unexploded Ordnance (UXO)	Australian Department of Defence	10/04/2025	10/04/2025	Quarterly	2000m	0	0	1
EPA Other Sites with Contamination Issues	Environment Protection Authority NSW	28/11/2024	15/12/2022	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority NSW	14/04/2025	14/04/2025	Monthly	1000m	0	0	3
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority NSW	14/04/2025	14/04/2025	Monthly	1000m	0	0	1
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority NSW	14/04/2025	14/04/2025	Monthly	1000m	0	0	6
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	100m	0	6	6
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	100m	-	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	250m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	250m	-	0	0
Points of Interest	NSW Department of Customer Service - Spatial Services	18/02/2025	18/02/2025	Quarterly	1000m	0	1	50
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	18/02/2025	18/02/2025	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	18/02/2025	18/02/2025	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	21/02/2025	21/02/2025	Quarterly	1000m	0	0	1
State Forest	Forestry Corporation of NSW	18/12/2024	11/11/2024	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Geoscience Australia	22/04/2025	19/08/2019	Annually	1000m	1	1	1

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024	NSW Department of Climate Change, Energy, the Environment and Water	12/02/2025	28/06/2024	Quarterly	1000m	0	0	1
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	28/05/2024	20/06/2023	Annually	2000m	0	4	659
NSW Seamless Geology Single Layer: Rock Units	NSW Department of Primary Industries and Regional Development	17/05/2024	01/05/2024	Annually	1000m	1	1	5
NSW Seamless Geology Single Layer: Geological Boundaries and Faults	NSW Department of Primary Industries and Regional Development	17/05/2024	01/05/2024	Annually	1000m	0	0	0
NSW Seamless Geology Single Layer: Trendlines	NSW Department of Primary Industries and Regional Development	17/05/2024	01/05/2024	Annually	1000m	0	0	0
NSW Seamless Geology Single Layer: Fold Axes	NSW Department of Primary Industries and Regional Development	17/05/2024	01/05/2024	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Department of Primary Industries and Regional Development	05/05/2025	30/09/2015	Annually	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	15/01/2025	17/02/2011	Annually	1000m	1	1	1
Soil Landscapes of Central and Eastern NSW	NSW Department of Climate Change, Energy, the Environment and Water	18/12/2024	27/07/2020	Annually	1000m	1	1	2
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Housing and Infrastructure	16/04/2025	28/02/2025	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	15/01/2025	21/02/2013	Annually	1000m	1	1	2
Dryland Salinity - National Assessment	Australian Bureau of Agricultural and Resource Economics and Sciences	03/06/2024	24/05/2024	Annually	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service	21/02/2025	21/02/2025	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Primary Industries and Regional Development	05/05/2025	05/05/2025	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Primary Industries and Regional Development	05/05/2025	05/05/2025	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Primary Industries and Regional Development	05/05/2025	05/05/2025	Monthly	1000m	12	12	12
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Housing and Infrastructure	16/04/2025	08/09/2023	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Housing and Infrastructure	16/04/2025	04/04/2025	Monthly	1000m	1	4	41
Commonwealth Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	23/10/2024	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	23/10/2024	13/04/2022	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	21/02/2025	17/12/2024	Quarterly	1000m	0	0	2
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Housing and Infrastructure	16/04/2025	04/04/2025	Monthly	1000m	0	1	15
Bush Fire Prone Land	NSW Rural Fire Service	23/04/2025	31/03/2025	Monthly	1000m	0	0	0
NSW Native Vegetation Type Map	NSW Department of Climate Change, Energy, the Environment and Water	26/02/2025	08/11/2024	Quarterly	1000m	2	4	13
Ramsar Wetlands of Australia	Australian Department of Climate Change, Energy, the Environment and Water	16/05/2024	11/04/2024	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Terrestrial	Australian Department of Climate Change, Energy, The Environment and Water	20/03/2025	19/06/2024	Annually	1000m	0	0	0

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Marine	Australian Department of Climate Change, Energy, The Environment and Water	20/03/2025	30/06/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	28/05/2024	28/05/2024	Annually	1000m	0	0	4
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/05/2024	28/05/2024	Annually	1000m	0	0	7
NSW BioNet Species Sightings	NSW Department of Climate Change, Energy, the Environment and Water	16/04/2025	16/04/2025	Monthly	10000m	-	-	-

Site Diagram

68-80 Banks Avenue, Pagewood, NSW 2035



Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 9229m²

Total Perimeter: 574m

Scale: 0 25 50 Meters

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

Disclaimers:

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

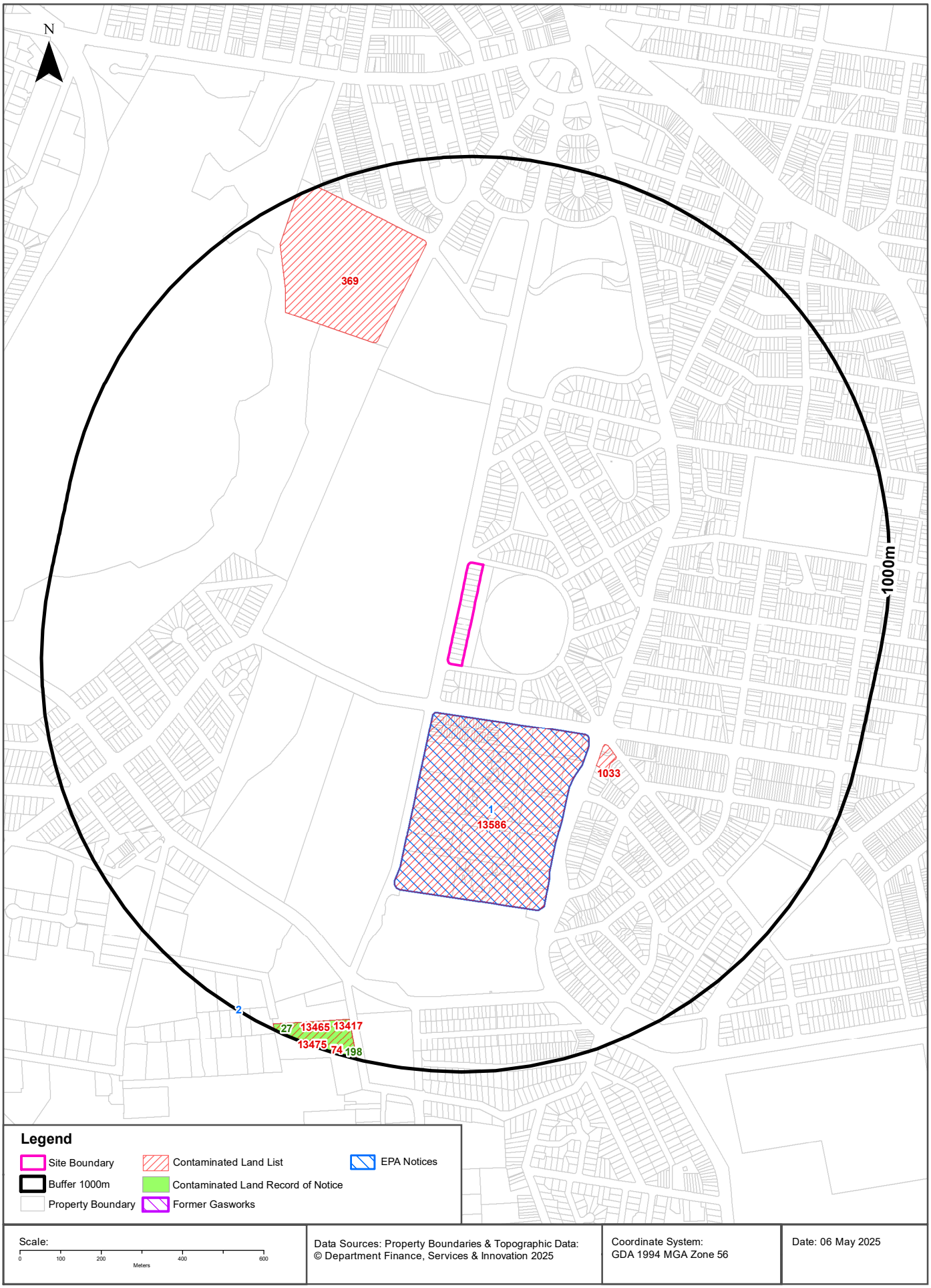
Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.

Coordinate System: GDA 1994 MGA Zone 56

Date: 06 May 2025

Contaminated Land

68-80 Banks Avenue, Pagewood, NSW 2035



Contaminated Land

68-80 Banks Avenue, Pagewood, NSW 2035

List of NSW contaminated sites notified to EPA

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

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist	Direction
13586	130-150 Bunnerong Road Eastgardens	130 - 150 Bunnerong ROAD	EASTGARDENS	Other Industry	Regulation under CLM Act not required	Current EPA List	Premise Match	122m	South
1033	Coles Express Pagewood Service Station, Maroubra	299 Bunnerong Parade	Maroubra	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	400m	South East
369	Astrolabe Park	Cook Avenue	Daceyville	Landfill	Regulation under CLM Act not required	Current EPA List	Premise Match	591m	North
74	Orica Botany Groundwater Project	16-20 Beauchamp Road	Banksmeadow	Chemical Industry	Contamination currently regulated under CLM Act	Current EPA List	Premise Match	908m	South
13465	Former Pipeline	Corish CIRCLE	BANKSMEADOW	Other Petroleum	Regulation being finalised	Current EPA List	Premise Match	908m	South
13475	Orica Car Park Waste Encapsulation	Corish CIRCLE	BANKSMEADOW	Landfill	Contamination formerly regulated under the POEO Act	Current EPA List	Premise Match	908m	South
13417	Orica Botany (Pre-2003 Regulation)	Denison STREET	Banksmeadow	Chemical Industry	Contamination currently regulated under CLM Act	Current EPA List	Premise Match	908m	South

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

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).

EPA site management class	Explanation
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

Contaminated Land

68-80 Banks Avenue, Pagewood, NSW 2035

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
27	Orica Botany Groundwater Project	16-20 Beauchamp Road	Banksmeadow	6 current and 28 former	3203	Premise Match	908m	South
198	Orica Botany (Pre-2003 Regulation)	Denison STREET	Banksmeadow	12 former	3048	Premise Match	908m	South

Contaminated Land Records of Notice Data Source: Environment Protection Authority

Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm

Former Gasworks

Former Gasworks within the dataset buffer:

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

Former Gasworks Data Source: Environment Protection Authority

Contaminated Land

68-80 Banks Avenue, Pagewood, NSW 2035

EPA Notices

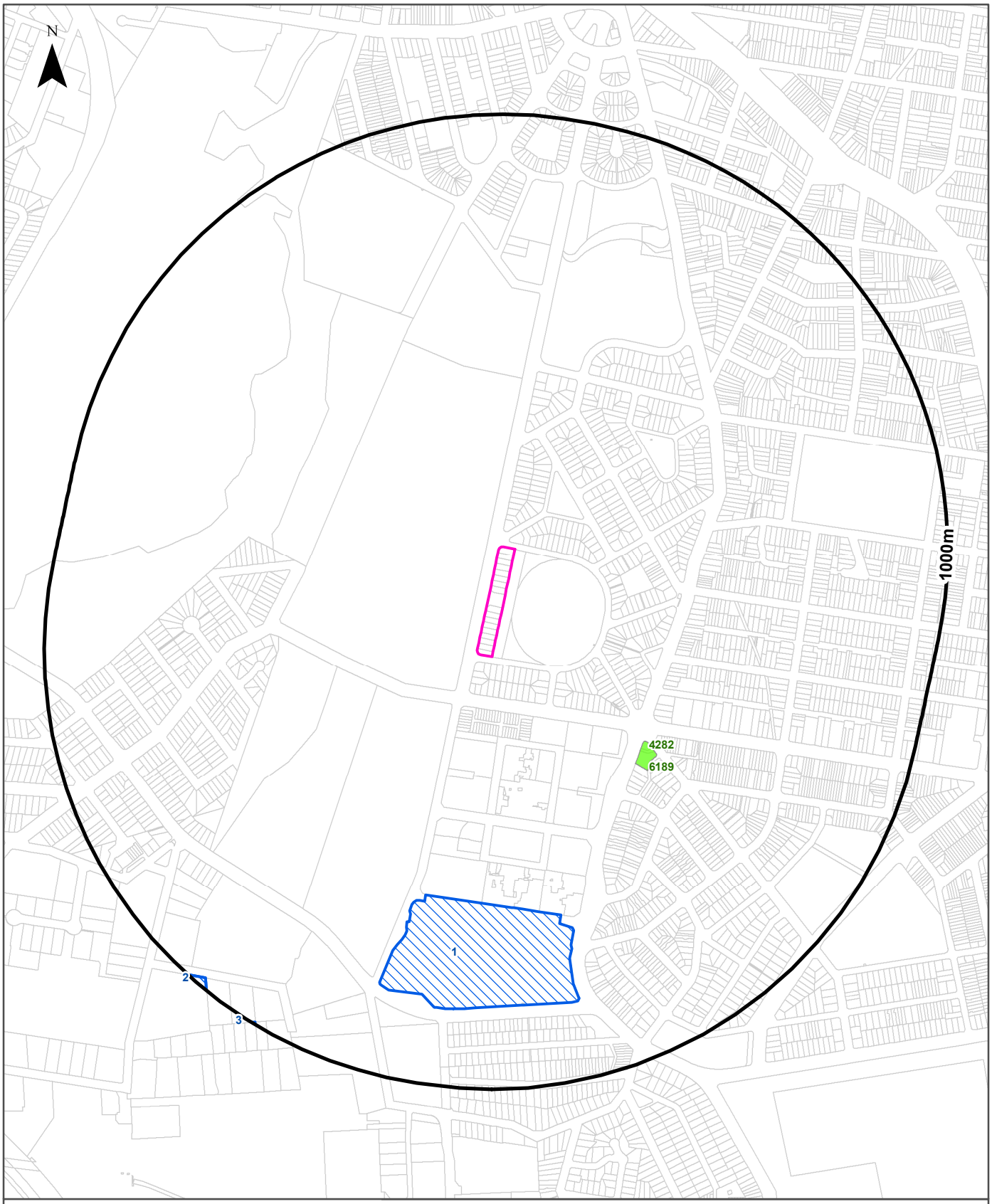
Penalty Notices, s.91 & s.92 Clean up Notices and s.96 Prevention Notices within the dataset buffer:

Map ID	Number	Type	Name	Address	Status	Issued Date	Act	Offence	Offence Date	Loc Conf	Dist	Dir
1	1106597	s.96 Prevention Notice	BRITISH AMERICAN TOBACCO AUSTRALIA LIMITED	WESTFIELD DRIVE, EASTGARDENS, NSW 2036	Issued	08/10/2009				Premise Match	122m	South
2	1556097	s.96 Prevention Notice	EMPIRE BINS PTY LTD		Issued	12/09/2017				Premise Match	995m	South West

NSW EPA Notice Data Source: Environment Protection Authority

Waste Management & Liquid Fuel Facilities

68-80 Banks Avenue, Pagewood, NSW 2035



Legend

- Site Boundary
- Buffer 1000m
- Property Boundary
- Waste Management Facilities
- National Liquid Fuel Facilities

Scale:	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025	Coordinate System: GDA 1994 MGA Zone 56	Date: 06 May 2025

Waste Management & Liquid Fuel Facilities

68-80 Banks Avenue, Pagewood, NSW 2035

National Waste Management Facilities Database

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

Map ID	Owner	Name	Address	Management Type	Facility Type	Status	Loc Conf	Dist	Dir
1	COLES	COLES SUPERMARKET	152 BUNNERONG ROAD, EASTGARDENS	DROP-OFF	SOFT PLASTICS DROP-OFF FACILITY	OPERATIONAL	Premise Match	567m	South
2	VISY PAPER PTY LTD	VISY BOTANY	CORNER MOORE STREET & BAKER STREET, BANKSMEADOW	RECYCLING	PAPER AND CARDBOARD RECYCLING FACILITY	OPERATIONAL	Premise Match	979m	South West
	VISYPAK	VISYPAK	CORNER MOORE STREET & BAKER STREET, BANKSMEADOW	RECYCLING	PLASTICS REPROCESSING FACILITY	OPERATIONAL	Premise Match	979m	South West
3	EMPIRE BINS PTY LTD	EMPIRE BINS PTY LTD	5 MEADOW WAY, BANKSMEADOW	NOT CLASSIFIED	OTHER WASTE FACILITY	OPERATIONAL	Premise Match	995m	South West

Source: Waste Management Facilities Database

National Liquid Fuel Facilities

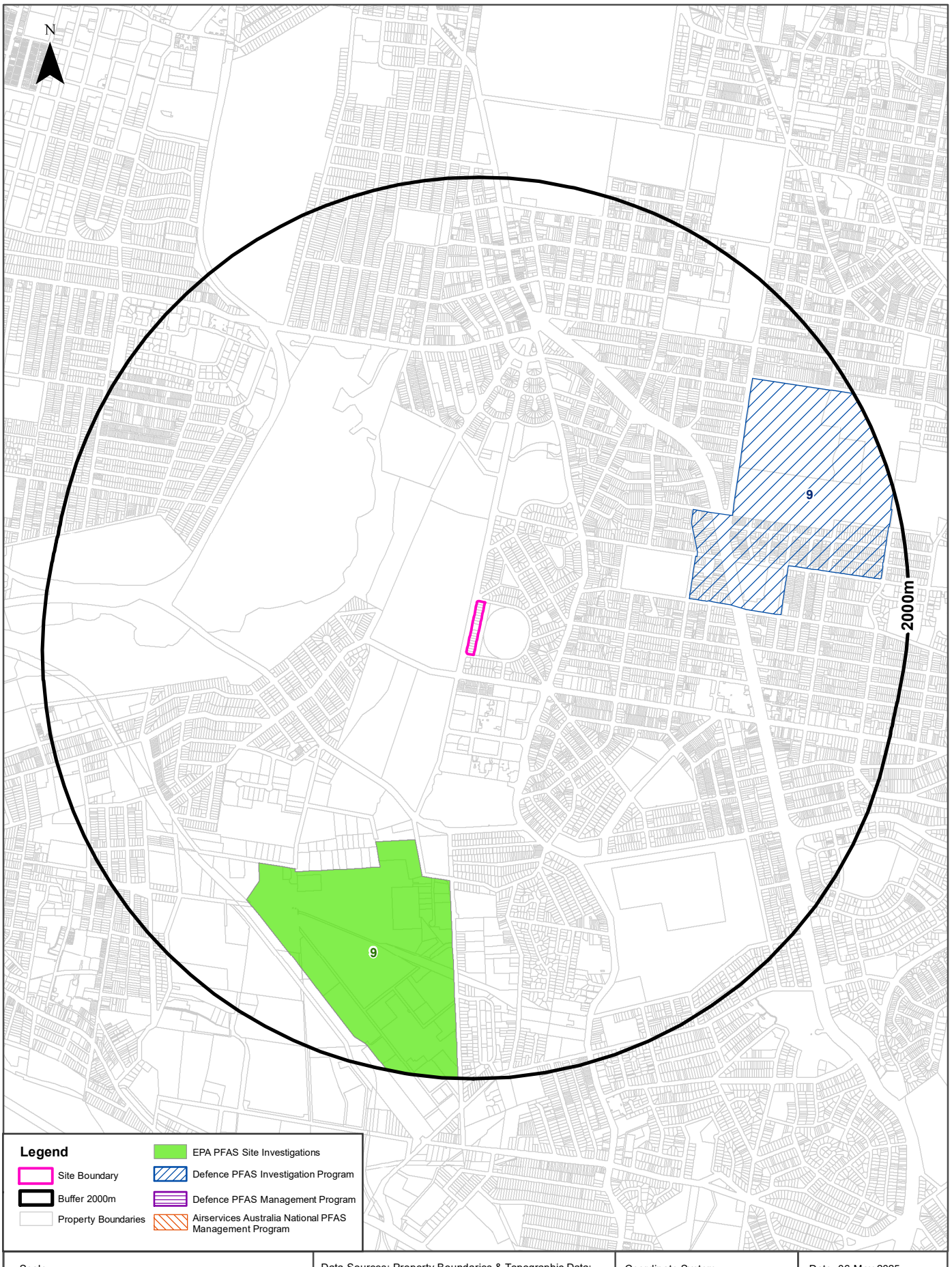
National Liquid Fuel Facilties within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
4282	Shell	Coles Express Pagewood	293-299 Bunnerong Road	Maroubra	Petrol Station	Operational		25/07/2011	Premise Match	400m	South East
6189	COLES EXPRESS	COLES EXPRESS PAGEWOOD	297-299 BUNNERONG ROAD	PAGEWOOD	PETROL STATION	OPERATIONAL			Premise Match	400m	South East

National Liquid Fuel Facilities Data Source: Geoscience Australia

PFAS Investigation & Management Programs

68-80 Banks Avenue, Pagewood, NSW 2035



PFAS Investigation & Management Programs

68-80 Banks Avenue, Pagewood, NSW 2035

EPA PFAS Investigation Program

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

Map ID	Site	Address	Loc Conf	Dist	Dir
9	Botany Industrial Park	Dent Street, Botany, 2019	Premise Match	908m	South

EPA PFAS Investigation Program: Environment Protection Authority

Defence PFAS Investigation Program

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

Map ID	Base Name	Address	Loc Conf	Dist	Dir
9	Randwick Barracks	Kingsford, New South Wales	Premise Match	964m	East

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

Defence PFAS Management Program

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

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

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

Airservices Australia National PFAS Management Program

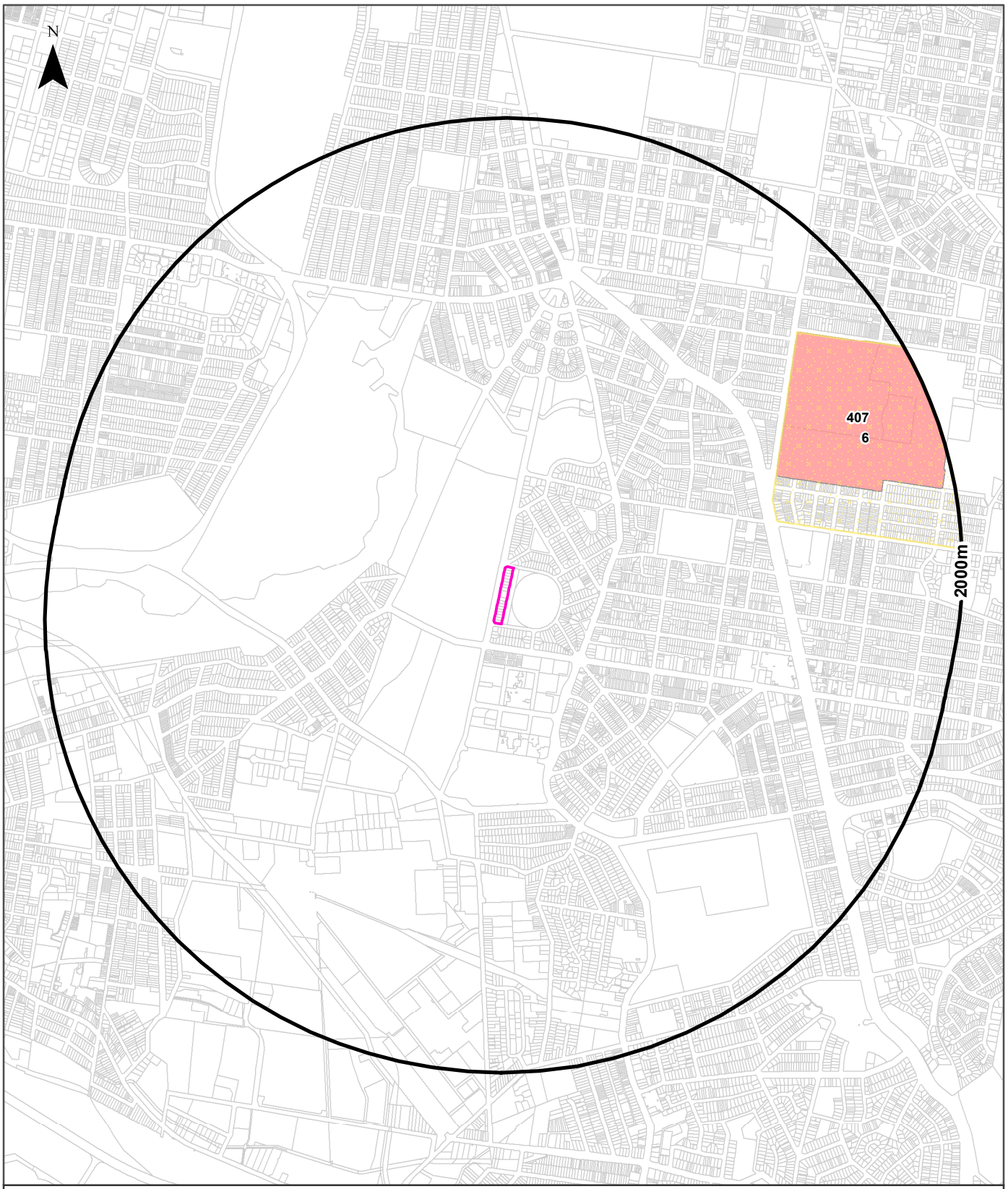
Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

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

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites and Unexploded Ordnance

68-80 Banks Avenue, Pagewood, NSW 2035



Legend

- Site Boundary
- Buffer 2000m
- Property Boundaries

DCA

- Defence Controlled Area

Defence 3 Year RCIP

- Known Contamination
- No Known Contamination

UXO

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

Scale:	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025	Coordinate System: GDA 1994 MGA Zone 56	Date: 06 May 2025

0 200 400 800 1,200 Meters

Defence Sites and Unexploded Ordnance

68-80 Banks Avenue, Pagewood, NSW 2035

Defence Controlled Areas (DCA)

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

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

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

Defence 3 Year Regional Contamination Investigation Program (RCIP)

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

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
407	Randwick Barracks	Randwick, New South Wales	YES	Premise Match	1237m	North East

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

National Unexploded Ordnance (UXO)

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

Site ID	Location Name	Category	Area Description	Additional Information	Commonwealth	Loc Conf	Dist	Dir
6	Randwick	Other	The present Randwick Military Area is within this site.		Not Commonwealth Land	As Supplied	1190m	North East

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

EPA Other Sites with Contamination Issues

68-80 Banks Avenue, Pagewood, NSW 2035

EPA Other Sites with Contamination Issues

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

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

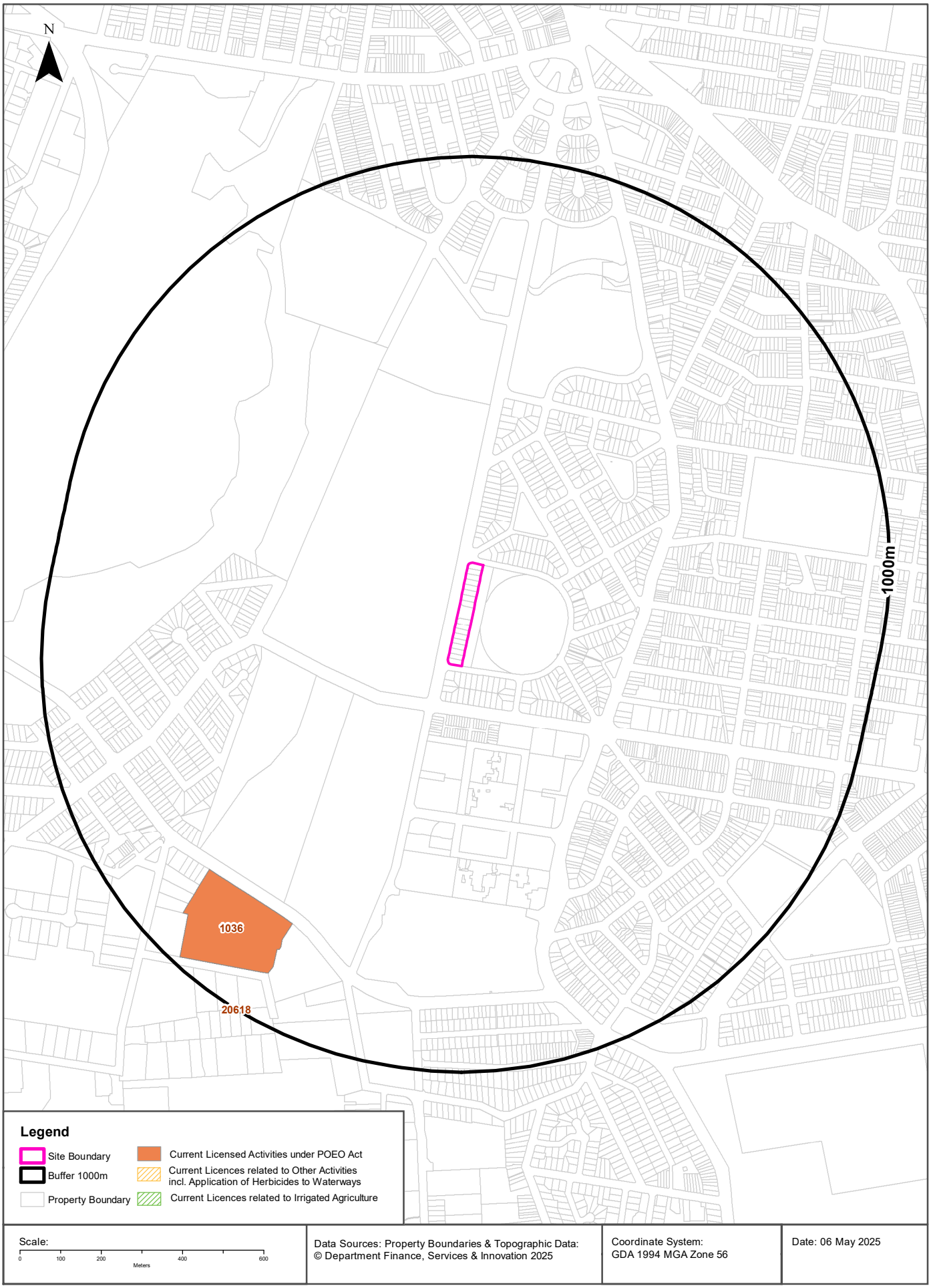
Sites within the dataset buffer:

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

EPA Other Sites with Contamination Issues: Environment Protection Authority

Current EPA Licensed Activities

68-80 Banks Avenue, Pagewood, NSW 2035



EPA Activities

68-80 Banks Avenue, Pagewood, NSW 2035

Licensed Activities under the POEO Act 1997

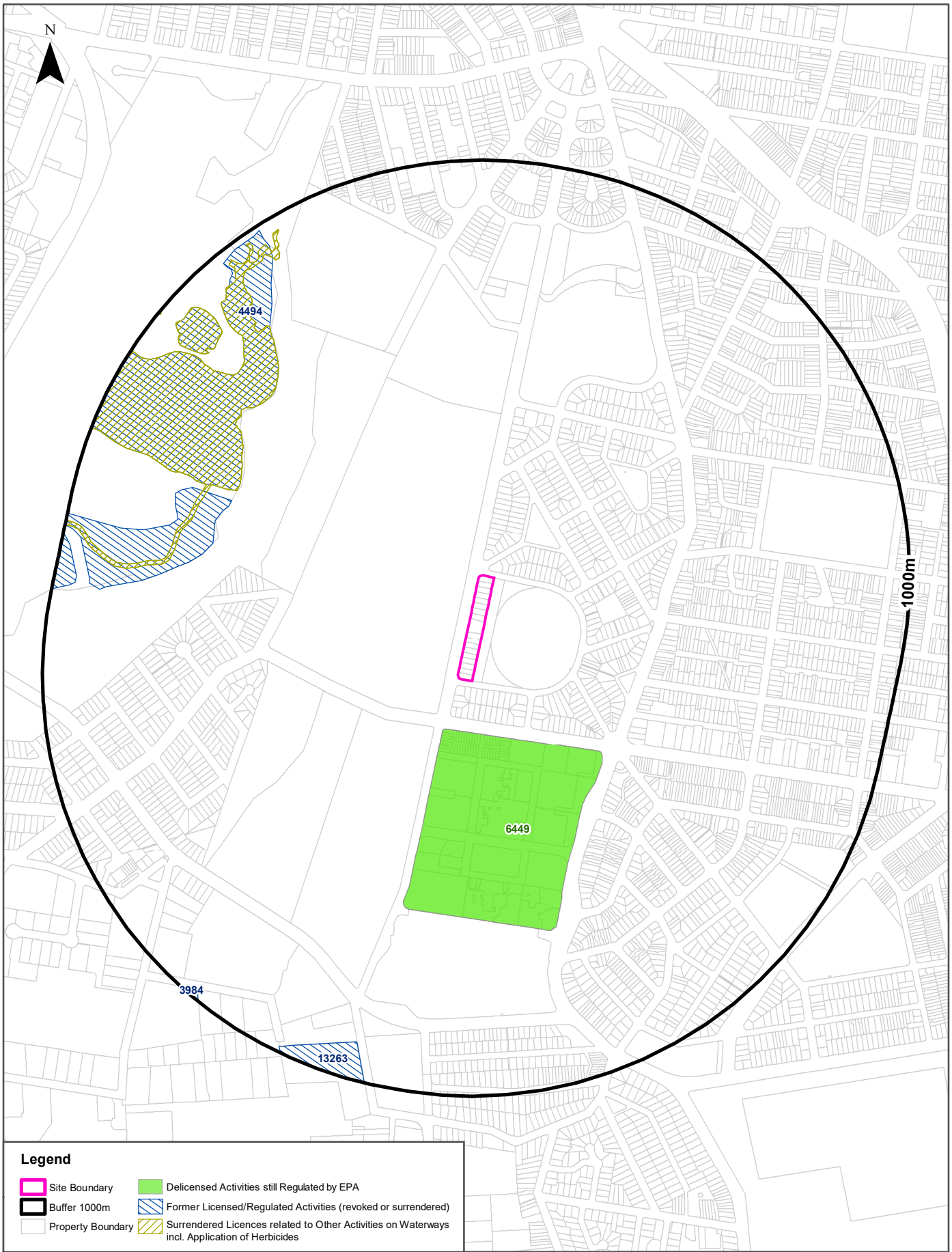
Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
1036	OPAL PACKAGING AUSTRALIA PTY LTD	AMCOR CARTONS	2-6 MOORE STREET, BANKSMEADOW, NSW 2019	BOTANY	Printing, packaging and visual communications waste generation	Premise Match	746m	South West
20618	EMPIRE BINS PTY LTD		5 MEADOW WAY, BANKSMEADOW, NSW 2019		Waste storage - other types of waste	Premise Match	995m	South West
20618	EMPIRE BINS PTY LTD		5 MEADOW WAY, BANKSMEADOW, NSW 2019		Recovery of general waste	Premise Match	995m	South West

POEO Licence Data Source: Environment Protection Authority

Delicensed & Former Licensed EPA Activities

68-80 Banks Avenue, Pagewood, NSW 2035



EPA Activities

68-80 Banks Avenue, Pagewood, NSW 2035

Delicensed Activities still regulated by the EPA

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

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
6449	BRITISH AMERICAN TOBACCO AUSTRALIA LIMITED	BRITISH AMERICAN TOBACCO AUSTRALIA LIMITED	WESTFIELD DRIVE	EASTGARDENS	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	122m	South

Delicensed Activities Data Source: Environment Protection Authority

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

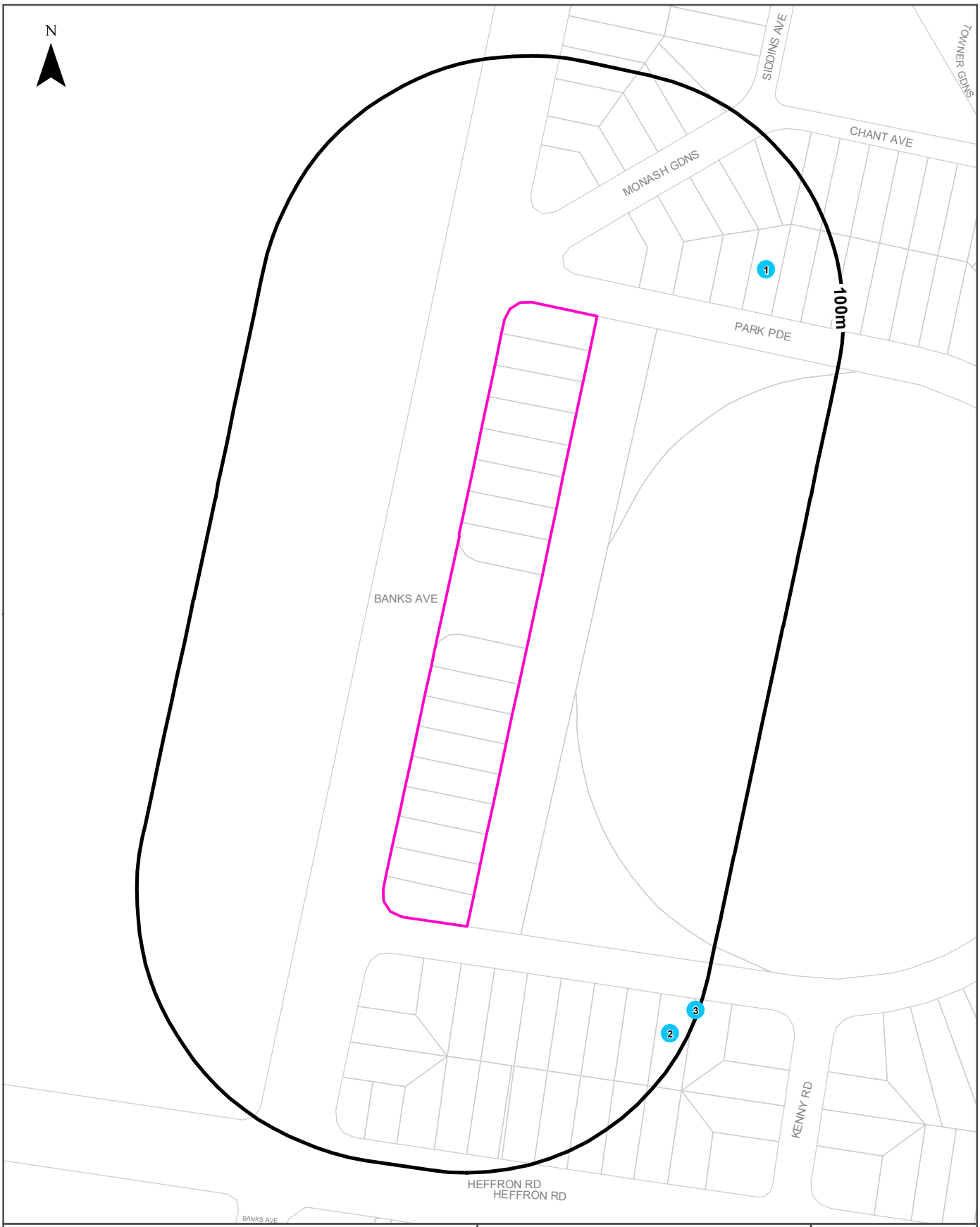
Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4494	SYDNEY WATER CORPORATION	., EASTLAKES, NSW 2018	Surrendered	07/09/2000	Other activities - including Application of Herbicide	Premise Match	617m	North West
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	617m	North West
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	617m	North West
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	617m	North West
13263	ORICA AUSTRALIA PTY LTD	Corish Circle, BANKSMEADOW, NSW 2019	Surrendered	27/05/2010	Contaminated soil treatment	Premise Match	908m	South
3984	VISY PAPER PTY. LTD.	CORNER MOORE & BAKER STREETS, BOTANY, NSW 2019	Surrendered	18/06/2001	Waste storage - other types of waste; Recovery of general waste; Non-thermal treatment of general waste	Premise Match	979m	South West

Former Licensed Activities Data Source: Environment Protection Authority

Historical Business Directories

68-80 Banks Avenue, Pagewood, NSW 2035



Legend

- Site Boundary
- Buffer 100m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale: 0 30 60 90 120 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 06 May 2025

Historical Business Directories

68-80 Banks Avenue, Pagewood, NSW 2035

Business Directory Records 1950-1991
Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	PLUMBERS, GASFITTERS & DRAINLAYERS	Howard, R. N., 82 Park Rd. PAGEWOOD	359842	1961	Premise Match	59m	North East
2	CARRIERS & CARTAGE CONTRACTORS	Hill, C., 16 Park Pde., pagewood	284888	1961	Premise Match	83m	South East
	CARRIERS & CARTAGE CONTRACTORS	Hill, C., 16 Park Pde., Pagewood	19023	1950	Premise Match	83m	South East
3	EARTH-MOVING CONTRACTORS (E010)	Bourke, J. G. Pty. Ltd., 18 Park Pde., Pagewood	293101	1970	Premise Match	97m	South East
	EARTH-MOVING MACHINERY HIRERS(E025)	Bourke, J. G. Pty. Ltd., 18 Park Pde., Pagewood	293226	1970	Premise Match	97m	South East
	GRAVEL, SAND/SOIL SUPPLIES (G570)	Bourke, J.G.Pty. Ltd., 18 Park Pde., Pagewood	311890	1970	Premise Match	97m	South East

Business Directory Records 1950-1991
Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

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

Historical Business Directories

68-80 Banks Avenue, Pagewood, NSW 2035

Dry Cleaners, Motor Garages & Service Stations 1948-1993 Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

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

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

Dry Cleaners, Motor Garages & Service Stations 1948-1993 Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

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

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

Aerial Imagery 2025

68-80 Banks Avenue, Pagewood, NSW 2035

Scale:
0 30 60 90 120
Meters

Data Source Aerial Imagery: © 2025 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 56

Date: 06 May 2025

Aerial Imagery 2014

68-80 Banks Avenue, Pagewood, NSW 2035

Scale:
0 30 60 90 120
Meters

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Coordinate System:
GDA 1994 MGA Zone 56

Date: 06 May 2025

Aerial Imagery 2001

68-80 Banks Avenue, Pagewood, NSW 2035

Scale:
0 30 60 90 120
Meters

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Coordinate System:
GDA 1994 MGA Zone 56

Date: 06 May 2025

Aerial Imagery 1994

68-80 Banks Avenue, Pagewood, NSW 2035

Scale:	Data Sources: Aerial Imagery:	Coordinate System:	Date: 06 May 2025
0 25 50 75 100 Meters	© NSW Department of Customer Service	GDA 1994 MGA Zone 56	

Aerial Imagery 1991

68-80 Banks Avenue, Pagewood, NSW 2035

Aerial Imagery 1986

68-80 Banks Avenue, Pagewood, NSW 2035

Aerial Imagery 1982

68-80 Banks Avenue, Pagewood, NSW 2035

Scale:	Data Sources: Aerial Imagery:	Coordinate System:	Date: 06 May 2025
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Aerial Imagery 1978

68-80 Banks Avenue, Pagewood, NSW 2035

Scale:	Data Sources: Aerial Imagery:	Coordinate System:	Date: 06 May 2025
0 25 50 75 100 Meters	© NSW Department of Customer Service	GDA 1994 MGA Zone 56	

Aerial Imagery 1970

68-80 Banks Avenue, Pagewood, NSW 2035

Scale:	Data Sources: Aerial Imagery:	Coordinate System:	Date: 06 May 2025
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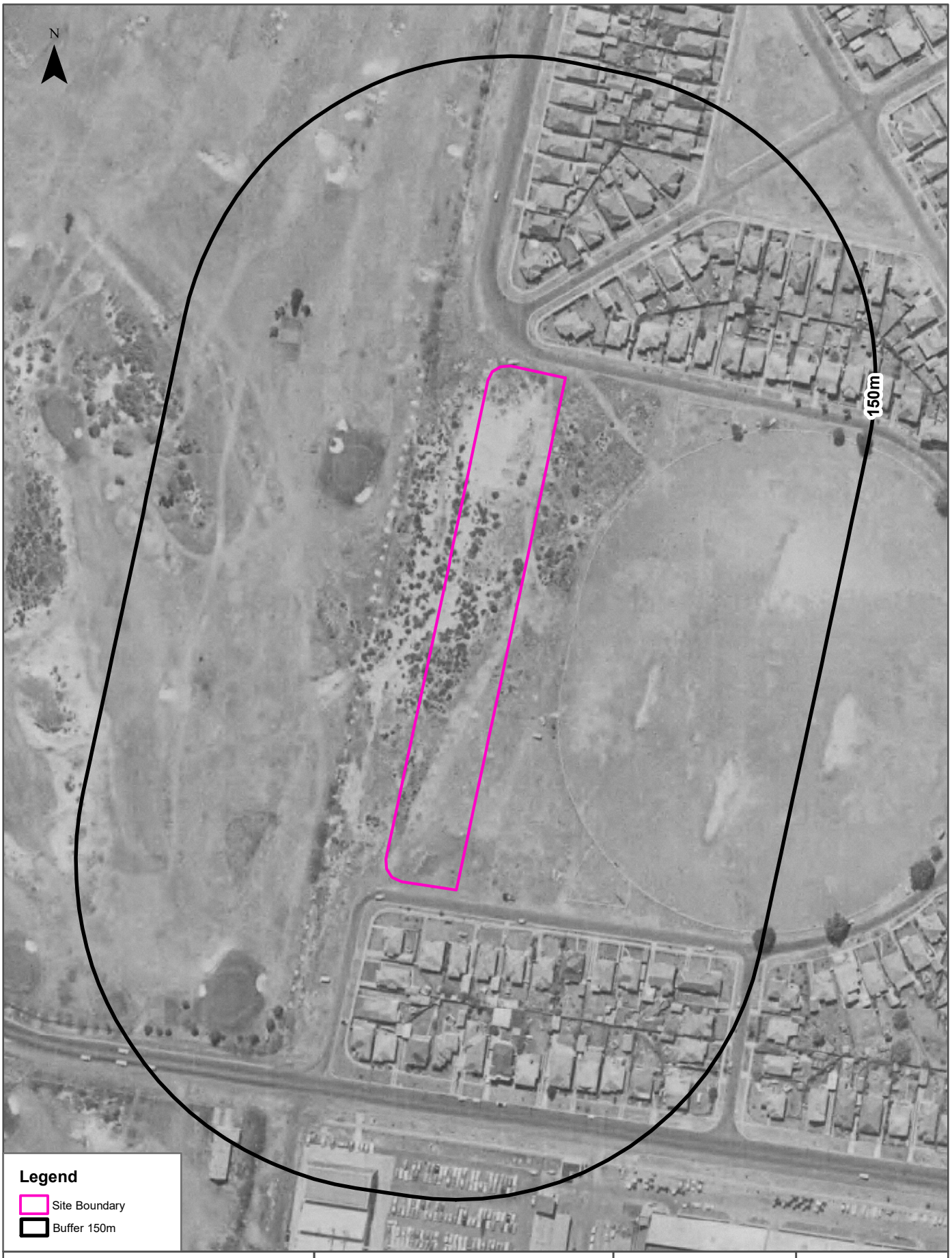
Aerial Imagery 1965

68-80 Banks Avenue, Pagewood, NSW 2035



Scale:	Data Sources: Aerial Imagery:	Coordinate System:	Date: 06 May 2025
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Aerial Imagery 1961

68-80 Banks Avenue, Pagewood, NSW 2035

Scale:	Data Sources: Aerial Imagery:	Coordinate System:	Date: 06 May 2025
0 25 50 75 100 Meters	© NSW Department of Customer Service	GDA 1994 MGA Zone 56	

Aerial Imagery 1955, 1956

68-80 Banks Avenue, Pagewood, NSW 2035

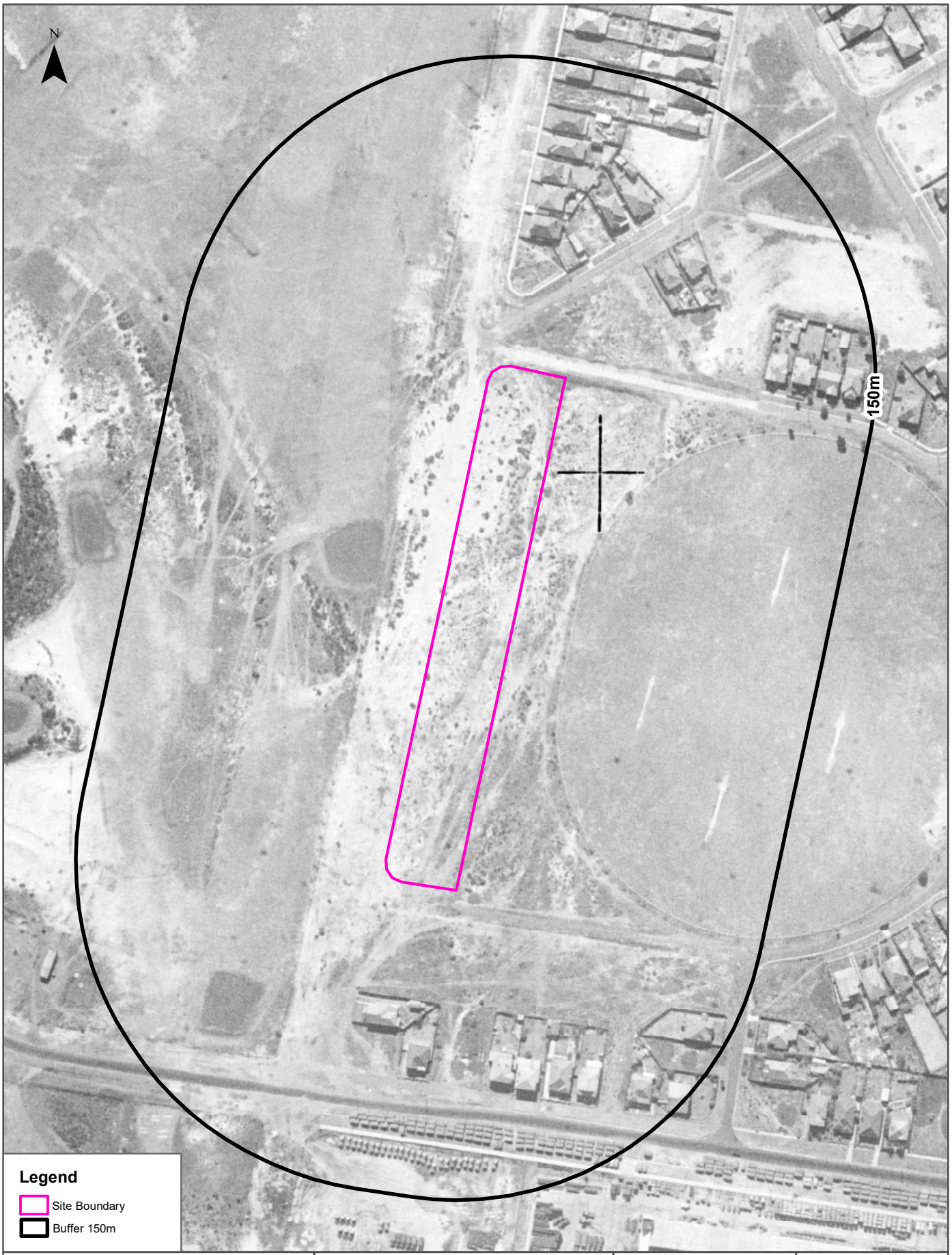
Aerial Imagery 1951

68-80 Banks Avenue, Pagewood, NSW 2035

Scale:	Data Sources: Aerial Imagery: © NSW Department of Customer Service	Coordinate System: GDA 1994 MGA Zone 56	Date: 06 May 2025

Aerial Imagery 1943

68-80 Banks Avenue, Pagewood, NSW 2035

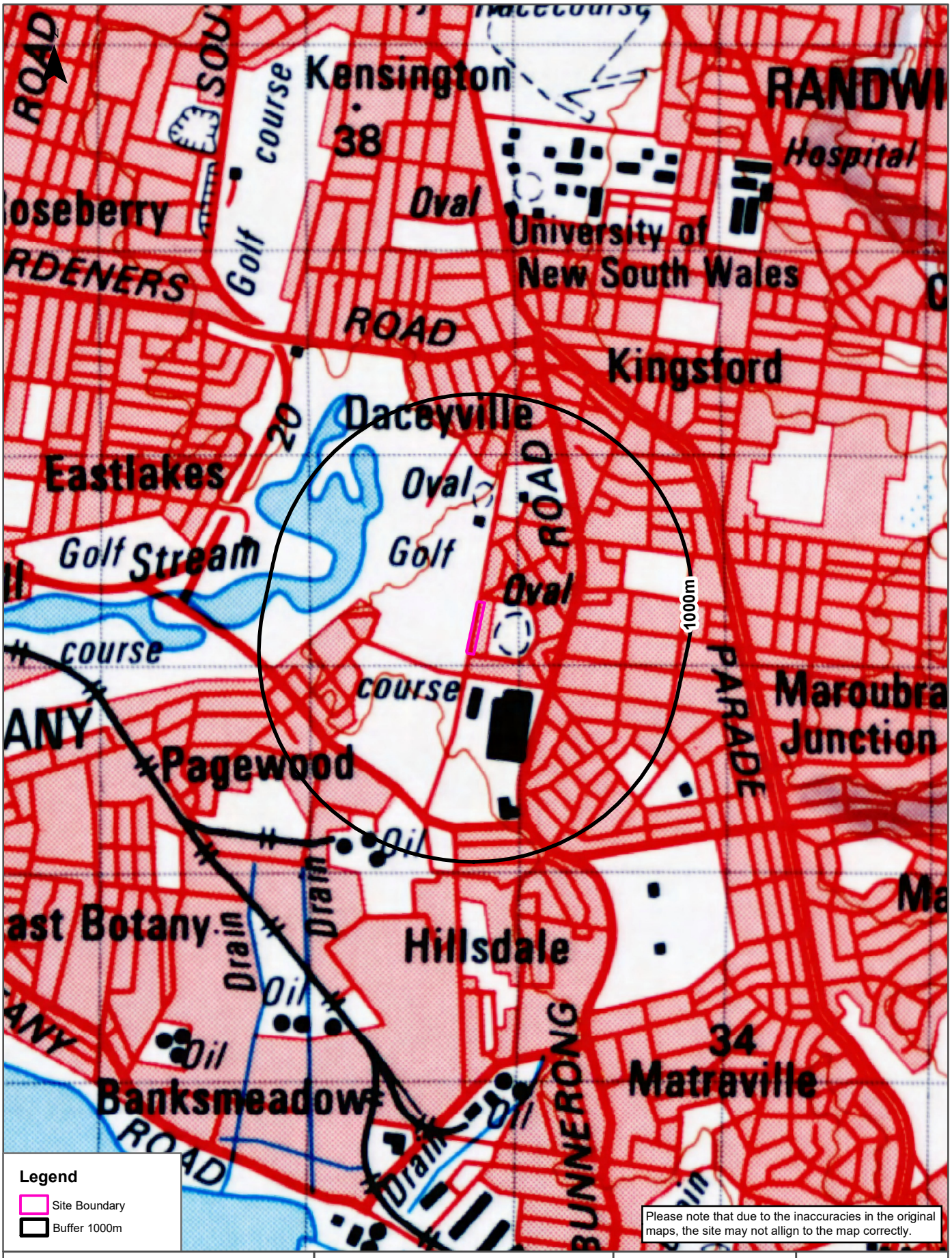


Aerial Imagery 1930

68-80 Banks Avenue, Pagewood, NSW 2035

Historical Map 1975

68-80 Banks Avenue, Pagewood, NSW 2035

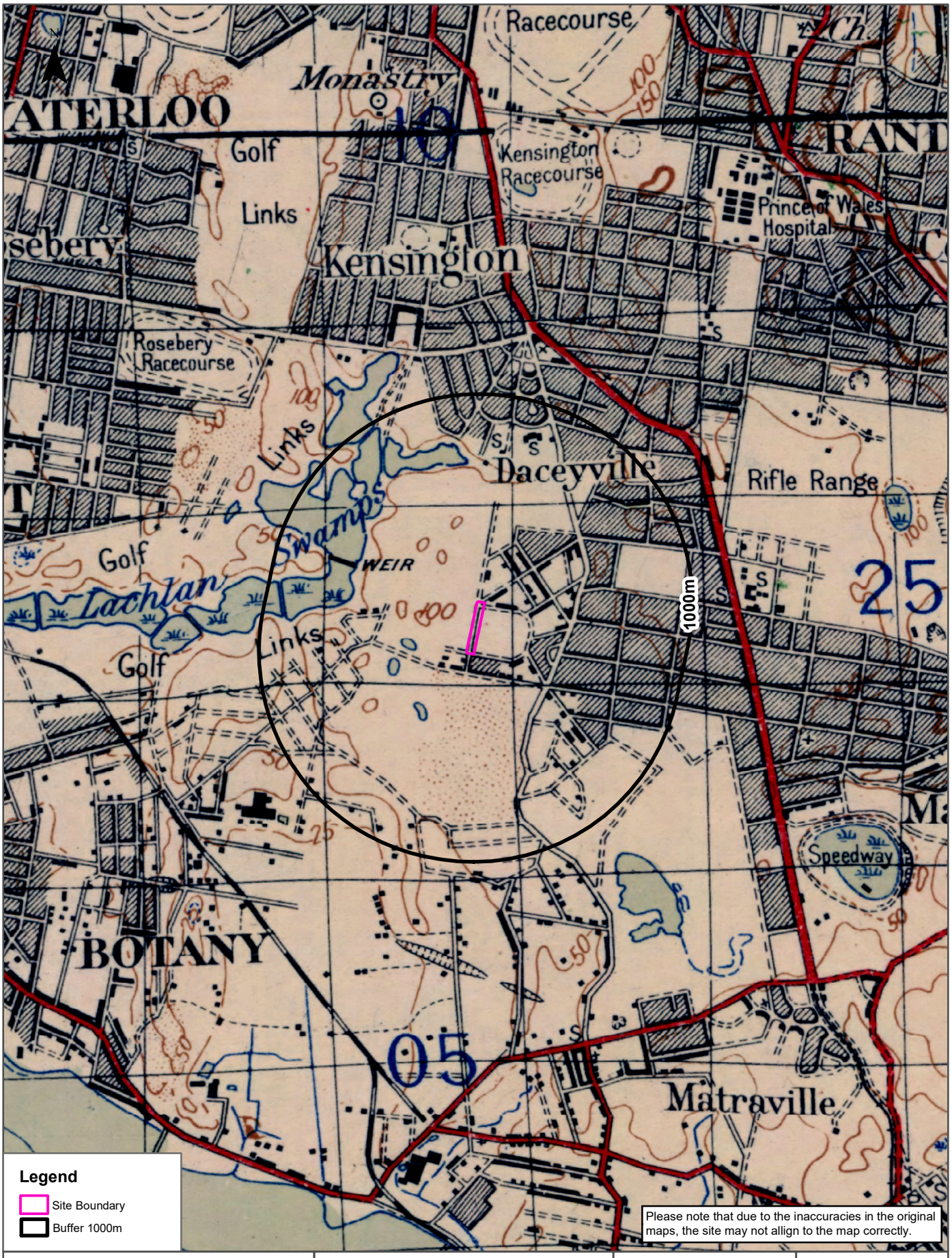


Scale:	Data Sources: NATMAP 1:100,000 Topographic Maps Geoscience Australia	Coordinate System: GDA 1994 MGA Zone 56	Date: 06 May 2025

0 290 580 870 1,160
Meters

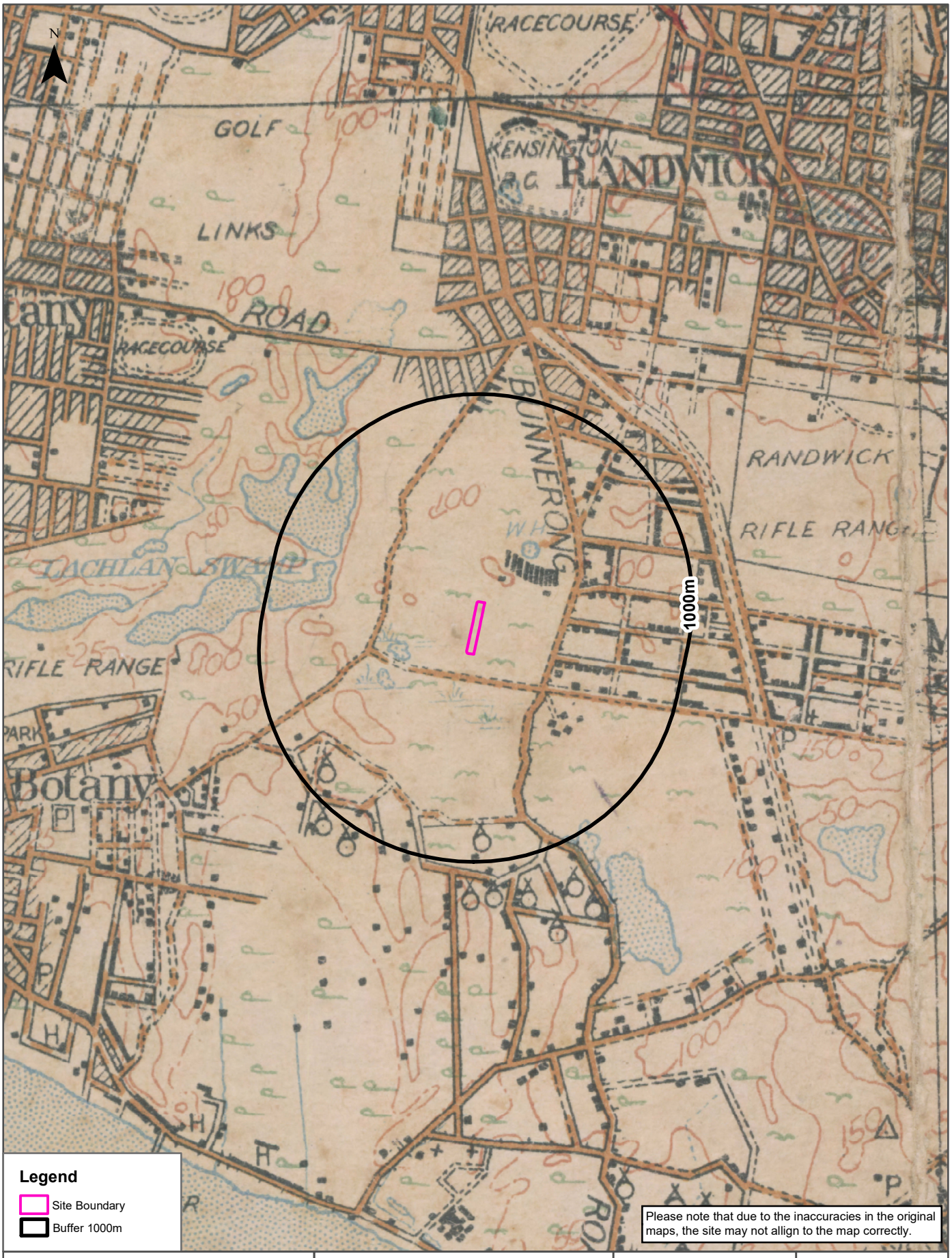
Historical Map c.1936

68-80 Banks Avenue, Pagewood, NSW 2035



Historical Map c.1917

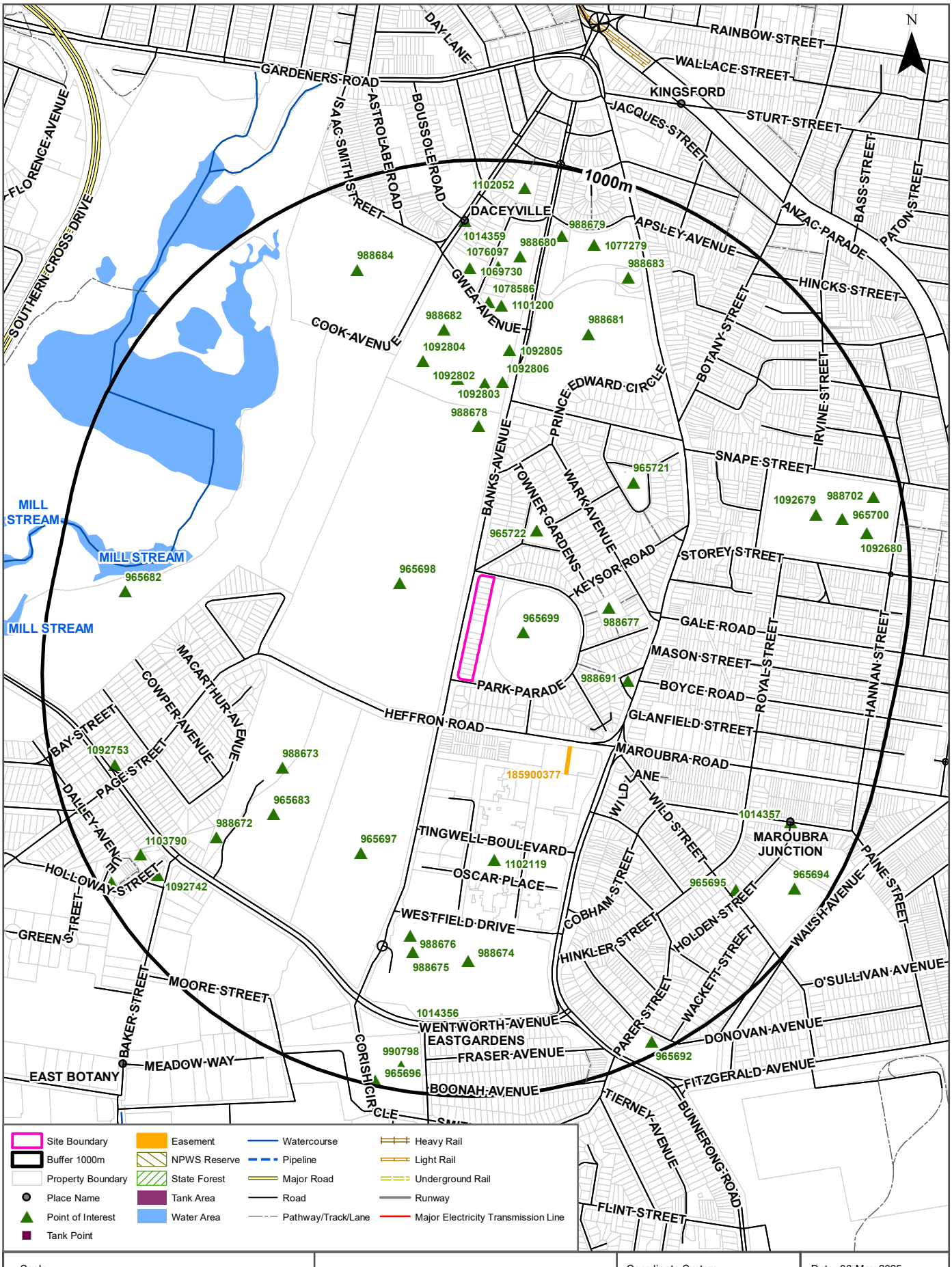
68-80 Banks Avenue, Pagewood, NSW 2035



Scale: 0 290 580 Meters 870 1,160	Data Sources: Australia 1:63360 Produced by Australian Section Imperial General Staff	Coordinate System: GDA 1994 MGA Zone 56	Date: 06 May 2025

Topographic Features

68-80 Banks Avenue, Pagewood, NSW 2035



Topographic Features

68-80 Banks Avenue, Pagewood, NSW 2035

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
965699	Park	JELLICOE PARK	96m	East
965722	Park	CHANT RESERVE	154m	North East
965698	Golf Course	BOONIE DOON GOLF COURSE	183m	North West
988677	Park	FIRMSTONE RESERVE	285m	East
988678	Club	BONNIE DOON GOLF CLUB	360m	North
988691	Park	HARRIS RESERVE	366m	East
965721	Park	GLANVILLE RESERVE	406m	North East
1102119	Park	CHAUVEL GREEN PARK	434m	South
1092802	Sports Field	HOCKEY FIELD	462m	North
1092806	Sports Court	TENNIS COURTS	468m	North
988673	Sports Court	TENNIS COURTS	476m	South West
1092803	Sports Field	SOCCER FIELD	478m	North
965697	Golf Course	BOONIE DOON GOLF COURSE	482m	South West
1092804	Sports Field	CRICKET GROUND	536m	North
1092805	Sports Court	TENNIS COURTS	546m	North
965683	Park	MUTCH PARK	553m	South West
988682	Sports Field	THE DAVID PHILLIPS FIELDS	599m	North
988676	Library	EASTGARDENS LIBRARY	629m	South
988681	Park	ROWLAND PARK	629m	North
1101200	Primary School	HARTFORD COLLEGE	652m	North
1078586	Retirement Village	FOLEY GARDENS	658m	North
988675	Community Medical Centre	EASTGARDENS EARLY CHILDHOOD HEALTH CENTRE	667m	South
988674	Shopping Centre	EASTGARDENS SHOPPING CENTRE	674m	South
988672	Sports Centre	MUTCH PARK SQUASH AND TENNIS CENTRE	698m	South West
1069730	Nursing Home	SOUTHERN CROSS CARE DACEYVILLE RESIDENTIAL AGED CARE	741m	North
1076097	Primary School	ST MICHAEL'S CATHOLIC PRIMARY SCHOOL	745m	North
988680	Place Of Worship	ST MICHAEL'S CATHOLIC CHURCH	774m	North
1092679	Sports Field	CRICKET GROUND	789m	East
988683	Community Facility	MAROUBRA PCYC	791m	North East
988684	Park	ASTROLABE PARK	794m	North
965695	Place Of Worship	ST EDMUNDS ANGLICAN CHURCH	810m	South East

Map Id	Feature Type	Label	Distance	Direction
965682	Golf Course	EASTLAKES GOLF COURSE	825m	West
1077279	Primary School	DACEYVILLE PUBLIC SCHOOL	838m	North
1014357	Urban Place	MAROUBRA JUNCTION	838m	South East
988679	Child Care Centre	HIBISCUS CHILDRENS CENTRE	840m	North
1014356	Suburb	EASTGARDENS	842m	South
965700	Park	SNAPE PARK	849m	East
1092753	Park	WENTWORTH AVENUE RESERVE	853m	West
1014359	Suburb	DACEYVILLE	855m	North
1092742	Park	HOLLOWAY STREET RESERVE	865m	South West
1103790	Park	DALLEY AVENUE RESERVE	875m	South West
1092680	Sports Field	CRICKET GROUND	903m	East
965694	Park	NAGLE PARK	922m	South East
988702	Sports Court	TENNIS COURTS	933m	East
1102052	Park	HAIG RESERVE	938m	North
990798	Sports Field	HENSLEY ATHLETIC FIELD	941m	South
1014358	Suburb	PAGEWOOD	958m	South West
965297	Community Facility	PAGEWOOD SENIOR CITIZENS CENTRE	970m	South West
965692	Place Of Worship	OUR LADY OF THE ANNUNCIATION CATHOLIC CHURCH	970m	South East
965696	Sports Centre	BOTANY ATHLETIC CENTRE-HENSLEY	988m	South

Topographic Features

68-80 Banks Avenue, Pagewood, NSW 2035

Tanks (Areas)

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

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

Tanks (Points)

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

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

Major Easements

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

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
185900377	Primary	Right of way	6	281m	South East

Topographic Features

68-80 Banks Avenue, Pagewood, NSW 2035

State Forest

What State Forest exist within the dataset buffer?

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

Elevation Contours (m AHD)

68-80 Banks Avenue, Pagewood, NSW 2035

Legend

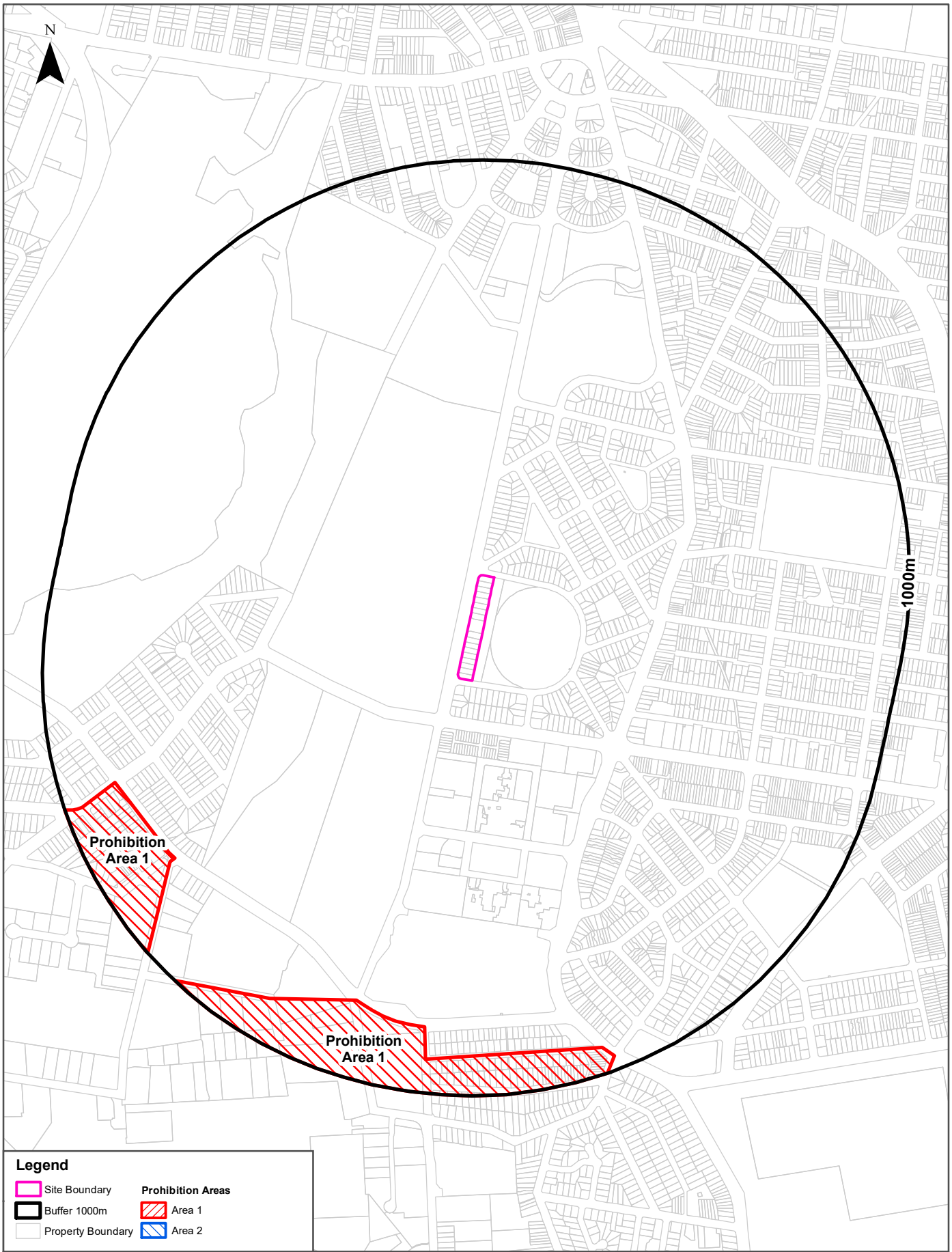
- Elevation Contour (m AHD)
- Site Boundary
- Buffer 1000m
- Property Boundary

Accuracy & Currency: This contour data can be up to 0.4 of the contour interval out in height and must therefore not be used for any design or engineering works, but only as a general guide to topography. Gaps may occur along contour lines due to vertical topography, obscured topography in the source photography such as buildings, dense vegetation or dead ground, or the fact that original buildings have been replaced in the intervening thirty years since the original contour capture.

Scale: 0 100 200 400 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025	Coordinate System: GDA 1994 MGA Zone 56	Date: 06 May 2025

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

68-80 Banks Avenue, Pagewood, NSW 2035



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

Coordinate System: GDA 1994 MGA Zone 56

Date: 06 May 2025

Hydrogeology & Groundwater

68-80 Banks Avenue, Pagewood, NSW 2035

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Porous, extensive highly productive aquifers	0m	On-site

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

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024

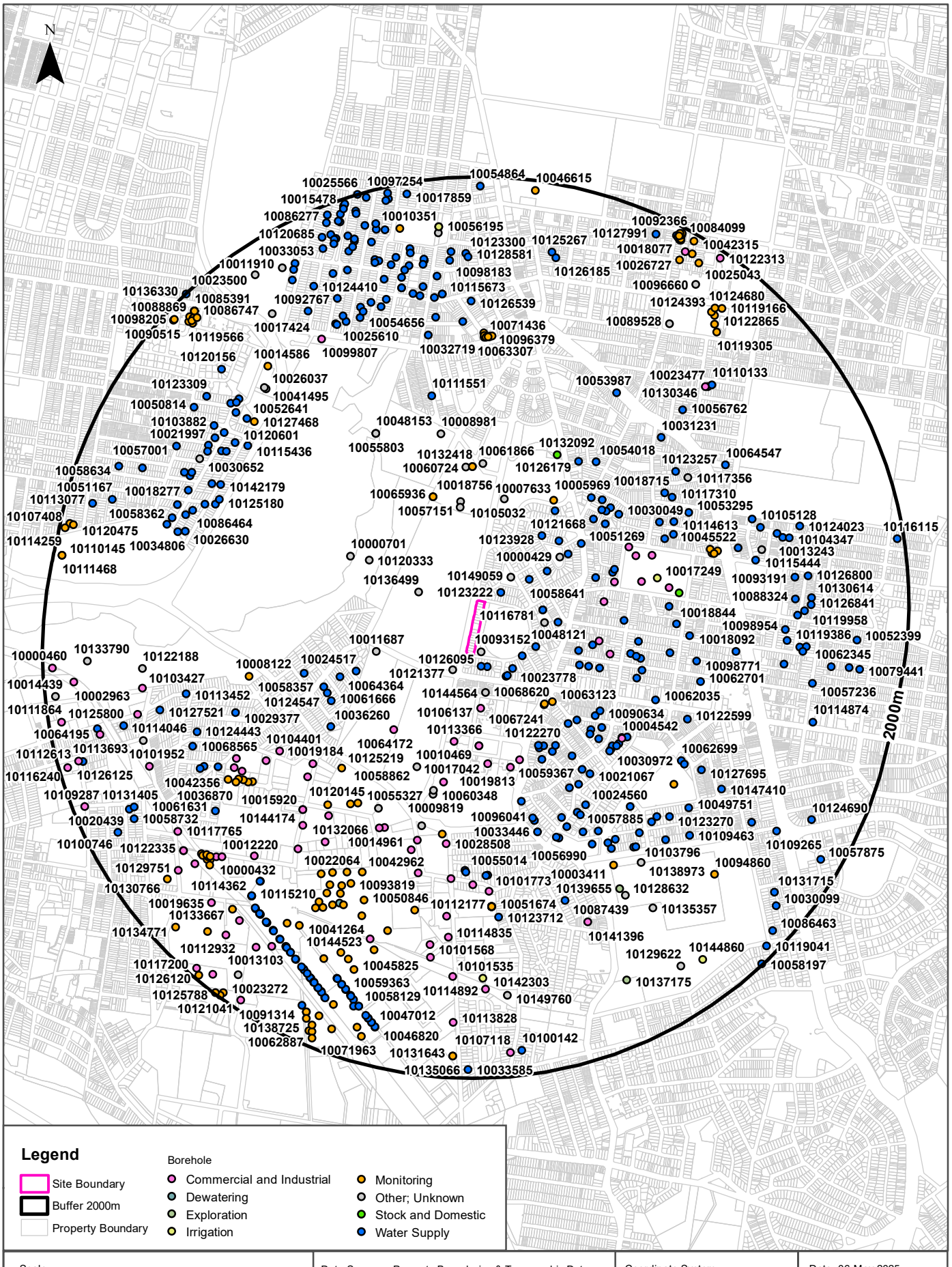
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibition Area No.	Prohibition	Distance	Direction
1	Groundwater cannot be used for any purpose except for: a. the taking of water for remediation, temporary construction dewatering, testing or monitoring purposes; or b. the taking of water using a water supply work nominated by water access licence 24611, 24613, 24566, 24600, 24564, 24583, 24545, or 24588, provided that the water is fit for purpose.	810m	South West

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

Groundwater Boreholes

68-80 Banks Avenue, Pagewood, NSW 2035



Hydrogeology & Groundwater

68-80 Banks Avenue, Pagewood, NSW 2035

Groundwater Boreholes

Boreholes within the dataset buffer:

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10093152	GW062486	Other	Functioning	01/01/1919	20.00		AHD				34m	South
10126095	GW101680	Water Supply	Unknown	23/09/1998	7.93		AHD	Good	1.000		69m	South
10123222	GW104993	Water Supply	Functioning	26/01/2002	10.00		AHD		1.000	6.50	87m	North East
10123857	GW104989	Water Supply	Functioning	11/11/2002	10.00		AHD		1.000	7.00	90m	South
10121377	GW016953	Other	Non-functional	01/01/1958	30.00		AHD			11.50	104m	South West
10149059	GW060242	Other	Unknown	01/05/1973	33.50		AHD				169m	North East
10087163	GW072238	Water Supply	Functioning	29/03/1994	10.00		AHD				186m	South East
10108611	GW024037	Water Supply	Unknown	01/03/1966	7.10		AHD	Good			189m	South East
10144564	GW062054	Other	Functioning	01/12/1985	37.40		AHD	Good	10.110	10.00	190m	South
10023778	GW024372	Water Supply	Unknown	01/08/1966	7.30		AHD	Good			198m	South East
10127315	GW072292	Water Supply	Unknown	14/01/1995	10.00		AHD				227m	South East
10058641	GW072905	Water Supply	Unknown	20/05/1995	10.00		AHD				236m	North East
10106137	GW016330	Commercial and Industrial	Unknown	01/02/1961	26.20		AHD	Fresh			259m	South
10116781	GW115530	Water Supply	Functioning	01/01/1998	14.00		AHD				277m	East
10122766	GW116714	Water Supply	Unknown	01/07/2016	14.00		AHD				277m	East
10136499	GW060217	Other	Functioning	01/01/1958	19.80		AHD				277m	North West
10095887	GW101876	Water Supply	Unknown	05/02/1996	9.50		AHD				280m	East
10147305	GW060241	Other	Functioning	01/05/1973	33.50		AHD				297m	East
10002643	GW116510	Water Supply	Functioning	30/12/1899	15.00		AHD				328m	North East
10050015	GW072907	Water Supply	Unknown	07/06/1995	10.00		AHD				359m	East
10068620	GW109851	Monitoring	Unknown	30/08/2006	13.50		AHD			10.90	410m	South East
10067241	GW109852	Monitoring	Unknown	30/08/2006	13.00		AHD			10.80	411m	South East
10000429	GW060243	Other	Functioning	01/05/1973	33.50		AHD				412m	North East
10123928	GW023270	Water Supply	Unknown		7.00		AHD				412m	North East
10113366	GW022054	Commercial and Industrial	Unknown	01/06/1964	40.80		AHD				422m	South
10011687	GW047121	Other	Functioning	01/07/1973	42.70		AHD				424m	West
10010469	GW014461	Commercial and Industrial	Unknown	01/11/1954	26.20		AHD				434m	South
10013756	GW014462	Commercial and Industrial	Unknown	01/11/1960	29.50		AHD	Fresh			434m	South
10063123	GW109850	Monitoring	Unknown	28/08/2006	14.00		AHD			11.80	436m	South East
10062891	GW111247	Other	Functioning	14/04/2004	36.00		AHD			7.00	446m	North

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10054261	GW101069	Water Supply	Functioning	11/10/1997	10.00		AHD				453m	North East
10054262	GW101072	Water Supply	Functioning	11/11/1997	10.00		AHD				453m	North East
10057151	GW019633	Other	Proposed	01/11/1961	35.00		AHD				473m	North
10133538	GW108670	Water Supply	Unknown	20/04/2007	16.00		AHD				483m	East
10105032	GW046836	Other	Functioning	01/10/1970	37.80		AHD				492m	North
10064172	GW037388	Commercial and Industrial	Unknown	01/09/1972	37.70		AHD	0-500 ppm			499m	South West
10123383	GW108671	Water Supply	Unknown	31/03/2007	15.00		AHD				501m	East
10017042	GW014459	Commercial and Industrial	Unknown	01/12/1956	29.20		AHD				522m	South
10024517	GW073478	Water Supply	Unknown	19/10/1995	10.00		AHD				526m	West
10127237	GW106864	Water Supply	Functioning	14/03/2005	9.50		AHD				529m	South East
10018756	GW111600	Monitoring	Functioning	29/09/2011	20.00		AHD			5.00	532m	North
10051269	GW023991	Water Supply	Unknown	01/05/1966	5.70		AHD	Good			532m	North East
10065936	GW111624	Monitoring	Functional	05/08/2005	36.00		AHD			5.00	532m	North
10089328	GW113043	Water Supply	Functioning	22/01/2008	12.00		AHD		0.250	9.00	536m	East
10048121	GW107933	Water Supply	Functioning	17/04/2006	17.00		AHD				540m	East
10054490	GW107567	Water Supply	Unknown	01/10/2005	9.50		AHD				542m	South East
10131559	GW072994	Water Supply	Unknown	20/08/1995	9.50		AHD				542m	North East
10120333	GW025817	Other	Unknown	01/04/1965	22.80		AHD				544m	North West
10131500	GW108669	Water Supply	Unknown	30/03/2007	16.00		AHD				544m	East
10110425	GW016331	Commercial and Industrial	Non-functional	01/01/1959	37.60		AHD				545m	South
10123107	GW108664	Water Supply	Unknown	20/01/2007	16.00		AHD				546m	South East
10124531	GW111547	Water Supply	Functioning	09/12/2006	18.00		AHD				554m	South East
10019813	GW014460	Commercial and Industrial	Unknown	01/03/1958	38.40		AHD				562m	South
10120551	GW026364	Commercial and Industrial	Unknown	01/08/1966	37.30		AHD	Good			563m	East
10015652	GW025709	Commercial and Industrial	Unknown	01/10/1965	37.30		AHD				568m	East
10007633	GW075025	Monitoring	Unknown	20/07/1998	24.20	8.52	AHD			9.13	579m	North East
10099117	GW106944	Water Supply	Functioning	11/04/2005	16.77		AHD	Good	1.000	12.81	579m	South East
10122270	GW108665	Water Supply	Unknown	10/02/2007	18.00		AHD				580m	South East
10058862	GW101594	Other	Unknown	16/02/1995	31.00		AHD			15.40	587m	South West
10087720	GW111151	Water Supply	Functioning	20/10/2010	17.00		AHD				592m	South East
10093832	GW108232	Water Supply	Unknown	01/11/2006	16.00		AHD				592m	South East
10071163	GW108589	Water Supply	Unknown	11/03/2007	18.00		AHD				596m	East
10064364	GW072917	Water Supply	Unknown	18/02/1995	18.00		AHD				607m	West
10087973	GW111144	Water Supply	Functioning	16/01/2007	8.00		AHD		0.500	4.00	619m	East
10104884	GW035410	Commercial and Industrial	Unknown	01/12/1972	39.90		AHD				619m	South

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10141275	GW013436	Commercial and Industrial	Unknown	01/11/1955	34.30		AHD				620m	East
10060724	GW111248	Other	Functioning	20/01/2004	30.00		AHD			6.00	631m	North
10000701	GW047417	Other	Unknown	01/03/1980	23.50		AHD				632m	North West
10058577	GW023983	Commercial and Industrial	Unknown	01/11/1965	38.50		AHD	Good			632m	East
10094857	GW108498	Water Supply	Unknown	22/01/2006	18.00		AHD				632m	North East
10132418	GW042169	Monitoring	Unknown			20.20	AHD			0.00	632m	North
10132568	GW042169	Monitoring	Unknown		29.80	20.20	AHD			0.00	632m	North
10063729	GW110871	Water Supply	Unknown	01/01/2007	8.00		AHD		2.500	2.00	644m	South East
10061866	GW106165	Unknown	Unknown	29/06/2005			AHD				646m	North
10121668	GW110956	Water Supply	Functioning	01/01/2007	12.19		AHD				646m	North East
10090634	GW111156	Water Supply	Functioning	20/10/2010	12.00		AHD				654m	South East
10059472	GW108572	Water Supply	Unknown	27/03/2007	18.00		AHD				660m	South East
10018619	GW108045	Water Supply	Unknown	09/06/2006	19.00		AHD				664m	East
10060348	GW103500	Other	Unknown	01/05/2000	41.00		AHD				667m	South
10099172	GW107587	Water Supply	Unknown	01/11/2005	9.50		AHD				667m	South East
10017357	GW112349	Water Supply	Functioning	01/02/2008	12.00		AHD			12.00	670m	South East
10061666	GW072925	Water Supply	Unknown	18/02/1995	12.00		AHD				676m	South West
10125145	GW108394	Water Supply	Functioning	26/10/2006	16.00		AHD				677m	North East
10124547	GW072287	Water Supply	Unknown	14/01/1995	8.00		AHD				684m	South West
10009819	GW062266	Other	Unknown	01/08/1987	31.00		AHD	Good			685m	South
10136288	GW072294	Water Supply	Unknown	16/01/1995	8.00		AHD				690m	West
10103798	GW108867	Water Supply	Unknown	01/01/1980	14.00		AHD		0.500	10.00	698m	South East
10005969	GW023529	Water Supply	Unknown	01/12/1965	6.70		AHD	Good			703m	North East
10126522	GW106752	Water Supply	Functioning	30/10/2004	9.50		AHD				703m	North East
10034361	GW105765	Water Supply	Unknown	03/02/2004	9.50		AHD				714m	South East
10026205	GW108822	Water Supply	Functioning	12/12/2006	14.00		AHD	Good	1.000		715m	North East
10020171	GW108430	Water Supply	Functioning	04/01/2007	18.00		AHD				725m	East
10036260	GW103239	Water Supply	Unknown	24/10/1995	17.08		AHD	Good			728m	South West
10094276	GW112525	Commercial and Industrial	Functioning	16/10/2008	30.00		AHD			10.60	729m	North East
10133379	GW106374	Water Supply	Functioning	16/09/2004	15.00		AHD		0.800	13.00	731m	South
10087096	GW108472	Water Supply	Unknown	06/01/2007	16.00		AHD				735m	North East
10002054	GW116081	Water Supply	Functioning	20/02/2020	17.50		AHD				741m	North East
10144969	GW029355	Commercial and Industrial	Functioning	01/07/1968	28.90		AHD				746m	North East
10059367	GW108849	Water Supply	Unknown	20/05/2007	16.00		AHD				748m	South East
10140520	GW027615	Commercial and Industrial	Unknown	01/07/1967	36.20		AHD				748m	East

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10135165	GW104829	Water Supply	Functioning	10/04/2003	10.00		AHD				750m	East
10057653	GW107829	Water Supply	Unknown	24/02/2006	10.00		AHD				754m	East
10030049	GW025540	Water Supply	Unknown	01/12/1965	4.80		AHD	Good			756m	North East
10058357	GW100448	Water Supply	Functioning	24/03/1997	9.15		AHD	6000	0.670	5.80	770m	West
10132092	GW042173	Stock and Domestic	Unknown			24.70	AHD				772m	North East
10015482	GW108172	Water Supply	Functioning	07/06/2006	18.00		AHD				777m	East
10123133	GW108911	Water Supply	Unknown	12/06/2008	16.00		AHD				777m	South East
10125290	GW111811	Water Supply	Functioning	05/09/2012	16.00		AHD				777m	East
10050567	GW107044	Water Supply	Unknown	18/05/2005	9.50		AHD				786m	South East
10021067	GW111602	Water Supply	Functioning	24/08/2011	12.00		AHD				788m	South East
10123108	GW107369	Water Supply	Unknown	23/09/2005	10.00		AHD				789m	South East
10030972	GW107027	Water Supply	Functioning	05/05/2005	9.50		AHD				790m	South East
10119042	GW111454	Water Supply	Functioning	07/06/2011	12.00		AHD				791m	South East
10100422	GW108978	Water Supply	Unknown	27/06/2008	16.50		AHD				794m	East
10126179	GW106005	Water Supply	Functioning	20/05/2004	12.29		AHD		1.000	7.93	797m	North East
10125219	GW112704	Monitoring	Functional	13/10/2008	9.00		AHD				802m	South West
10046437	GW108963	Water Supply	Unknown	26/06/2008	11.50		AHD				803m	South East
10092276	GW107719	Water Supply	Unknown	01/06/2005	9.50		AHD				803m	South East
10004542	GW026786	Commercial and Industrial	Unknown	01/10/1965	13.10		AHD				805m	South East
10008981	GW047125	Other	Unknown	01/05/1976	24.40		AHD			4.00	805m	North
10091619	GW111646	Water Supply	Functioning	20/04/2004	15.00		AHD				807m	South East
10142353	GW027616	Commercial and Industrial	Unknown	01/08/1967	32.60		AHD				820m	East
10126246	GW106998	Water Supply	Functioning	15/04/2005	9.50		AHD				822m	South
10017249	GW107404	Irrigation	Unknown	18/03/2005	32.00		AHD	Good	1.000	12.40	823m	East
10122925	GW101008	Water Supply	Functioning	30/08/1995	9.00		AHD				825m	South East
10096041	GW106820	Water Supply	Functioning	13/10/2004	9.50		AHD				837m	South
10054018	GW106661	Water Supply	Functioning	10/10/2004	15.25		AHD		1.000	8.23	843m	North East
10055327	GW100427	Other	Functioning	24/03/1997	37.00		AHD		1.250	13.50	844m	South West
10145470	GW042867	Other	Unknown		36.60		AHD				844m	South
10132817	GW042174	Monitoring	Abandoned	17/01/1975		20.92	AHD				862m	South
10116050	GW110522	Water Supply	Unknown	24/10/2009	12.00		AHD	Good	1.000	6.00	871m	East
10146903	GW029354	Commercial and Industrial	Functioning	01/08/1968	37.70		AHD				873m	East
10027993	GW110836	Water Supply	Unknown	30/03/2010	12.00		AHD				875m	South East
10119504	GW112706	Monitoring	Functional	14/10/2008	9.00		AHD				875m	South West
10024560	GW024369	Water Supply	Unknown	01/11/1965	8.80		AHD	Good			886m	South East

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10062035	GW104640	Water Supply	Functioning	30/01/2003	10.00		AHD				886m	East
10033446	GW107030	Water Supply	Unknown	20/04/2005	9.50		AHD				891m	South
10123670	GW108772	Water Supply	Functioning	16/04/2007	15.00		AHD				893m	South East
10019184	GW017637	Commercial and Industrial	Unknown	01/10/1952	37.10		AHD				895m	South West
10120145	GW112705	Monitoring	Functional	14/10/2008	9.00		AHD				900m	South West
10098953	GW107578	Water Supply	Functioning	10/11/2004	16.47		AHD	Good	1.000	12.81	901m	North East
10028508	GW035690	Commercial and Industrial	Functioning	01/02/1971	38.70		AHD	0-500 ppm			904m	South
10061723	GW023989	Water Supply	Functioning	01/04/1966	6.70		AHD	Fresh			907m	East
10102563	GW101883	Water Supply	Unknown	26/02/1996	10.00		AHD				907m	North East
10014961	GW024757	Commercial and Industrial	Unknown	01/01/1982	42.00		AHD				911m	South West
10018844	GW073458	Water Supply	Unknown	03/10/1995	16.50		AHD	Good			911m	East
10134527	GW106996	Water Supply	Functioning	17/05/2005	9.50		AHD				911m	South East
10096033	GW047872	Commercial and Industrial	Unknown	01/11/1980	41.50		AHD	0-500 ppm			913m	South
10138365	GW042165	Stock and Domestic	Unknown	13/02/1975		25.50	AHD				919m	East
10048153	GW040781	Unknown	Unknown				AHD			0.00	923m	North West
10055803	GW040781	Unknown	Unknown		3.29		AHD			0.00	923m	North West
10061118	GW029072	Commercial and Industrial	Functioning	01/11/1967	40.90		AHD				923m	South West
10120093	GW110785	Water Supply	Unknown	20/02/2010	12.00		AHD		1.500	6.00	927m	South East
10117466	GW102294	Water Supply	Functioning	06/03/1999	10.00		AHD				945m	North East
10124635	GW108407	Water Supply	Unknown	28/11/2006	16.00		AHD				948m	South
10150483	GW060237	Commercial and Industrial	Unknown	01/01/1965	30.50		AHD	0-500 ppm			952m	South West
10123910	GW106108	Water Supply	Unknown	17/03/2004	9.00		AHD				957m	South
10060365	GW032150	Commercial and Industrial	Unknown	01/10/1962	38.70		AHD				964m	South
10114613	GW109769	Water Supply	Unknown	01/01/2005	8.00		AHD		2.500	2.00	971m	North East
10129556	GW112703	Monitoring	Functional	13/10/2008	9.00		AHD				972m	South West
10125380	GW107000	Water Supply	Functioning	16/04/2005	9.50		AHD				981m	East
10064183	GW073503	Water Supply	Unknown	01/11/1995	10.00		AHD				985m	South East
10111551	GW023659	Water Supply	Unknown	01/01/1966	4.80		AHD	Good			990m	North
10018715	GW108443	Water Supply	Functioning	12/01/2007	14.50		AHD			8.00	992m	North East
10104401	GW022239	Commercial and Industrial	Non-functional	01/06/1964	33.80		AHD	Good			996m	South West
10132066	GW038126	Commercial and Industrial	Unknown	01/05/1971	39.00		AHD	0-500 ppm	25.258		1008m	South West
10117310	GW109774	Water Supply	Unknown	01/01/2005	10.00		AHD		0.500	3.00	1013m	North East
10055014	GW101834	Water Supply	Unknown	16/01/1996	10.00		AHD				1022m	South
10057885	GW107308	Water Supply	Functioning	14/08/2005	9.50		AHD				1022m	South East
10008122	GW042161	Monitoring	Unknown		33.50	8.47	AHD				1029m	West

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10061543	GW101835	Water Supply	Unknown	16/01/1996	10.00		AHD				1030m	South
10062729	GW108587	Water Supply	Functioning	18/02/2007	10.00		AHD				1033m	South East
10098771	GW109112	Water Supply	Unknown	24/07/2008	14.00		AHD				1037m	East
10096291	GW101495	Water Supply	Functioning	15/03/1998	9.00		AHD				1044m	South
10123520	GW072291	Water Supply	Unknown	08/02/1995	9.00		AHD				1048m	South
10053295	GW108448	Water Supply	Unknown	19/01/2007	16.00		AHD				1051m	North East
10122599	GW108931	Water Supply	Unknown	18/06/2008	14.95		AHD	Good	1.000	10.68	1055m	South East
10056990	GW104391	Water Supply	Functioning	27/02/1995	10.00		AHD				1058m	South East
10099867	GW025947	Commercial and Industrial	Functioning	01/02/1967	30.10		AHD				1062m	South
10108817	GW025948	Commercial and Industrial	Functioning	01/02/1967	35.00		AHD				1065m	South
10015920	GW017638	Commercial and Industrial	Unknown	01/08/1956	33.20		AHD				1070m	South West
10147617	GW037821	Commercial and Industrial	Unknown	01/05/1970	34.10		AHD				1070m	South West
10054362	GW103746	Commercial and Industrial	Unknown	01/01/1961	18.28		AHD				1074m	South West
10062701	GW107806	Water Supply	Unknown	18/12/2005	9.50		AHD				1076m	East
10116102	GW060195	Commercial and Industrial	Unknown	01/01/1919	30.00		AHD	0-500 ppm			1089m	South
10123257	GW072974	Water Supply	Unknown	06/05/1995	10.00		AHD				1091m	North East
10045522	GW113243	Monitoring	Functional	10/11/2008	13.00		AHD				1093m	East
10106379	GW107325	Water Supply	Unknown	16/08/2005	9.50		AHD				1094m	South East
10024807	GW113242	Monitoring	Functional	10/11/2008	13.00		AHD				1096m	East
10062699	GW026476	Water Supply	Unknown	01/09/1966	5.10		AHD	Good			1102m	South East
10093972	GW110134	Water Supply	Unknown	01/03/2009	10.00		AHD				1102m	South East
10057079	GW113244	Monitoring	Functional	10/11/2008	13.00		AHD				1107m	East
10140906	GW013827	Commercial and Industrial	Unknown	01/08/1958	38.80		AHD				1114m	South West
10101773	GW019662	Commercial and Industrial	Unknown	01/01/1962	32.00		AHD				1121m	South
10063575	GW025552	Water Supply	Unknown	01/01/1959	5.10		AHD				1123m	South East
10144174	GW033949	Commercial and Industrial	Proposed		30.50		AHD				1123m	South West
10029377	GW102221	Water Supply	Functioning	01/03/1999	9.50		AHD				1124m	West
10053212	GW113245	Monitoring	Functional	10/11/2008	13.00		AHD				1124m	East
10117187	GW107119	Water Supply	Functioning	10/05/2005	10.98		AHD	Good	1.000	7.93	1124m	South East
10117356	GW105877	Unknown	Unknown	09/05/2005			AHD				1124m	North East
10118509	GW104948	Monitoring	Abandoned	20/02/2002	7.00		AHD	120	0.300	4.35	1128m	South East
10031231	GW102222	Water Supply	Functioning	11/03/1999	9.50		AHD				1137m	North East
10042962	GW109458	Monitoring	Unknown	02/10/2007	20.00		AHD			3.50	1145m	South West
10099584	GW108226	Water Supply	Functioning	17/08/2006	13.42		AHD		1.000	9.15	1150m	South East
10024836	GW102219	Water Supply	Functioning	22/02/1999	7.63		AHD	Good	1.000	4.88	1155m	South East

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10125840	GW101653	Water Supply	Unknown	03/11/1998	7.63		AHD	Good	1.000	4.88	1155m	South East
10053987	GW026483	Water Supply	Unknown	01/09/1966	4.80		AHD				1166m	North East
10020722	GW111215	Monitoring	Functioning	24/08/2008	16.00		AHD				1178m	South West
10044709	GW109459	Monitoring	Unknown	03/10/2007	20.00		AHD			3.40	1179m	South West
10099360	GW106960	Water Supply	Functioning	01/03/2005	10.68		AHD	Good	1.000	7.01	1184m	South East
10103796	GW106812	Water Supply	Functioning	14/12/2004	10.06		AHD	Good	1.000	7.01	1191m	South East
10132849	GW038127	Commercial and Industrial	Unknown	01/10/1974	33.20		AHD	Good			1194m	South West
10051674	GW100042	Commercial and Industrial	Unknown	03/01/1996	130.00		AHD				1195m	South
10053766	GW100037	Commercial and Industrial	Functioning	03/01/1996	24.00		AHD				1195m	South
10056687	GW100041	Monitoring	Functional	03/01/1996	24.40		AHD				1195m	South
10062334	GW100824	Water Supply	Functioning	23/04/1996	8.23		AHD	Good	0.800	5.80	1195m	South
10087507	GW072446	Water Supply	Functioning	06/12/1994	9.00		AHD				1195m	South
10090042	GW100728	Water Supply	Functioning	04/12/1996	7.63		AHD	Good	1.000	5.19	1195m	South
10099029	GW072430	Water Supply	Functioning	31/10/1994	12.00		AHD				1195m	South
10115578	GW100743	Water Supply	Functioning	18/10/1996	10.00		AHD				1195m	South
10120900	GW100488	Water Supply	Functioning	04/03/1997	10.00		AHD				1195m	South
10123944	GW072631	Water Supply	Functioning	06/02/1995	9.00		AHD				1195m	South
10125911	GW100644	Water Supply	Unknown	24/10/1995	4.00		AHD				1195m	South
10136857	GW100508	Water Supply	Functioning	22/03/1997	10.00		AHD				1195m	South
10003411	GW075020	Monitoring	Unknown	17/07/1998	28.00	8.48	AHD			7.76	1196m	South East
10022537	GW111216	Monitoring	Functional	09/11/2010	8.00		AHD				1197m	South West
10011605	GW017642	Commercial and Industrial	Unknown	01/04/1957	23.00		AHD				1198m	South West
10123270	GW109149	Water Supply	Unknown	05/08/2008	9.00		AHD				1202m	South East
10127695	GW109165	Water Supply	Unknown	05/08/2008	12.00		AHD				1207m	South East
10018092	GW025730	Water Supply	Unknown	01/11/1965			AHD	Good			1209m	East
10024171	GW111217	Monitoring	Functional	24/08/2008	16.00		AHD				1212m	South West
10055929	GW109460	Monitoring	Unknown	09/10/2007	20.00		AHD			3.00	1215m	South West
10093819	GW109487	Monitoring	Unknown	04/10/2007	13.00		AHD			3.40	1219m	South West
10022064	GW017640	Commercial and Industrial	Unknown	01/03/1956	29.40		AHD				1220m	South West
10053533	GW103745	Commercial and Industrial	Unknown	01/01/1961	18.28		AHD				1222m	South West
10134631	GW104992	Water Supply	Functioning	24/01/2002	9.00		AHD		1.000	6.50	1223m	East
10025672	GW111218	Monitoring	Functional	24/08/2008	8.00		AHD				1229m	South West
10131103	GW042175	Monitoring	Unknown	13/02/1975		16.23	AHD				1238m	South
10087439	GW104535	Water Supply	Functioning	02/10/2001	7.00		AHD				1240m	South
10063307	GW109847	Monitoring	Unknown	07/08/2006	8.50		AHD			6.80	1241m	North

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10122490	GW109809	Monitoring	Unknown	18/05/2007	9.00		AHD				1241m	North
10071436	GW109849	Monitoring	Unknown	09/08/2006	8.50		AHD			6.10	1243m	North
10112177	GW060371	Commercial and Industrial	Functioning	01/01/1963	38.00		AHD	0-500 ppm			1243m	South
10133569	GW109810	Monitoring	Unknown	17/05/2007	9.00		AHD				1243m	North
10091538	GW109486	Monitoring	Unknown	05/10/2007	11.00		AHD			3.00	1246m	South West
10123712	GW104852	Water Supply	Functioning	18/08/2003	10.00		AHD				1247m	South
10036870	GW111219	Monitoring	Functional	24/08/2008	16.00		AHD				1248m	South West
10041616	GW109461	Monitoring	Unknown	10/10/2007	20.00		AHD			3.40	1248m	South West
10049751	GW101071	Water Supply	Functioning	23/10/1997	6.50		AHD				1248m	South East
10071668	GW109848	Monitoring	Unknown	08/08/2006	8.70		AHD			6.40	1248m	North
10096379	GW023612	Water Supply	Functioning	01/01/1966	5.10		AHD	Good			1248m	North
10117587	GW109813	Monitoring	Unknown	16/05/2007	9.00		AHD				1249m	North
10121399	GW109811	Monitoring	Unknown	16/05/2007	9.00		AHD				1250m	North
10122707	GW106363	Water Supply	Functioning	02/08/2004	15.00		AHD		0.800	11.00	1260m	South East
10050846	GW109465	Monitoring	Unknown	11/10/2007	20.00		AHD			3.30	1262m	South
10118966	GW109812	Monitoring	Unknown	15/04/2007	9.00		AHD				1262m	North
10138973	GW048234	Other	Unknown	01/11/1978	22.50		AHD	0-500 ppm			1262m	South East
10094513	GW109485	Monitoring	Unknown	08/10/2007	13.00		AHD			3.30	1270m	South West
10032719	GW105771	Water Supply	Functioning	08/12/2004	7.01		AHD		1.000		1274m	North
10042356	GW111220	Monitoring	Functional	24/08/2008	8.00		AHD				1275m	South West
10097743	GW109483	Monitoring	Unknown	24/10/2007	13.00		AHD				1283m	South West
10092014	GW104930	Water Supply	Functioning	06/06/2002	7.00		AHD		1.000	5.50	1289m	South West
10146462	GW026584	Water Supply	Unknown	01/11/1966	6.00		AHD				1294m	East
10056762	GW072908	Water Supply	Unknown	19/02/1995	8.00		AHD				1301m	North East
10115436	GW026720	Water Supply	Unknown	01/01/1966	6.00		AHD	Good			1305m	North West
10125180	GW101796	Water Supply	Unknown	24/10/1995	5.49		AHD	Good	1.000	1.83	1305m	North West
10139655	GW048236	Exploration	Proposed	01/11/1977			AHD	0-500 ppm			1306m	South East
10064547	GW107289	Water Supply	Functioning	17/07/2005	14.03		AHD	Good	1.000	10.37	1307m	North East
10088105	GW109484	Monitoring	Unknown	08/10/2007	13.00		AHD			3.30	1311m	South West
10116332	GW023473	Water Supply	Unknown	01/03/1966	7.30		AHD	Good			1314m	North West
10124162	GW101645	Water Supply	Unknown	01/03/1994	7.00		AHD				1317m	North
10120773	GW110423	Water Supply	Unknown	19/03/2009	12.00		AHD	Other	1.000	7.50	1320m	East
10057878	GW107047	Dewatering	Abandoned	08/11/2004	4.00		AHD			1.50	1324m	South West
10062733	GW109481	Monitoring	Unknown	24/10/2007	13.00		AHD			2.50	1324m	South West
10124443	GW100996	Water Supply	Functioning	01/10/1997	9.76		AHD	Good	0.750	7.01	1325m	West

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10142179	GW023497	Water Supply	Unknown	01/01/1966	6.40		AHD	Good			1328m	North West
10115444	GW105962	Unknown	Unknown	24/05/2005	14.00		AHD				1330m	East
10109463	GW023839	Water Supply	Unknown	01/03/1966	8.20		AHD	Good			1332m	South East
10147410	GW023308	Water Supply	Unknown	01/11/1965	2.80		AHD	Good			1333m	South East
10113452	GW023443	Water Supply	Unknown	01/01/1966	7.60		AHD	Good			1335m	West
10041264	GW109463	Monitoring	Unknown	11/10/2007	20.00		AHD			4.00	1336m	South
10114835	GW060372	Commercial and Industrial	Functioning	01/01/1962	30.00		AHD	0-500 ppm			1341m	South
10128632	GW060224	Other	Unknown	01/01/1985	29.00		AHD	Good			1345m	South East
10098392	GW109482	Monitoring	Unknown	24/10/2007	13.00		AHD			3.50	1348m	South West
10105128	GW024024	Water Supply	Unknown	01/12/1965	6.00		AHD	Good			1348m	East
10127468	GW042160	Monitoring	Unknown		32.00	22.15	AHD				1348m	North West
10048594	GW101711	Water Supply	Unknown	07/04/1998	10.00		AHD				1350m	South West
10126342	GW101157	Water Supply	Functioning	06/09/1995	6.10		AHD	Good	1.000	3.96	1350m	North
10057176	GW109462	Monitoring	Unknown	18/10/2007	20.00		AHD			3.50	1362m	South
10144291	GW024106	Water Supply	Functioning		2.70		AHD	S.Brackish			1362m	North West
10068565	GW101335	Water Supply	Functioning	30/12/1997	10.67		AHD	Good	1.000	7.62	1364m	South West
10120601	GW100991	Water Supply	Functioning	29/08/1995	6.70		AHD	Good	1.000		1364m	North West
10060526	GW109479	Monitoring	Unknown	26/10/2007	12.40		AHD			2.30	1365m	South West
10099071	GW101095	Water Supply	Functioning	18/09/1997	5.18		AHD	Good	1.000	1.93	1367m	North West
10061333	GW101721	Water Supply	Unknown	07/10/1995	6.00		AHD				1370m	South West
10141396	GW013439	Commercial and Industrial	Unknown	01/04/1948	24.80		AHD				1375m	South
10135156	GW105607	Water Supply	Unknown	15/10/2003	7.00		AHD				1376m	North West
10060065	GW109480	Monitoring	Unknown	23/10/2007	13.00		AHD			2.30	1379m	South West
10052641	GW102739	Water Supply	Unknown	09/11/1999	7.00		AHD				1385m	North West
10101568	GW025949	Commercial and Industrial	Functioning	01/02/1967	35.00		AHD				1385m	South
10023301	GW017641	Commercial and Industrial	Unknown	01/12/1957	27.10		AHD				1386m	South West
10092602	GW100579	Water Supply	Functioning	20/03/1997	5.00		AHD				1397m	North West
10072566	GW109478	Monitoring	Unknown	23/10/2007	13.00		AHD			3.20	1399m	South West
10061631	GW102740	Water Supply	Unknown	24/10/1999	10.00		AHD				1400m	South West
10086464	GW104936	Water Supply	Functioning	15/08/2002	7.00		AHD		1.000	3.50	1406m	North West
10026037	GW109201	Other	Unknown	12/08/2008	5.00		AHD				1412m	North West
10126539	GW107390	Water Supply	Functioning	13/09/2004	7.32		AHD	Good	1.000	4.88	1413m	North
10026630	GW100674	Water Supply	Functioning	21/08/1995	5.49		AHD	Good	1.000		1414m	West
10101434	GW024206	Water Supply	Unknown	01/08/1966	5.40		AHD	Good			1417m	East
10041495	GW102866	Other	Unknown	01/01/1992	5.00		AHD				1420m	North West

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10144523	GW015990	Commercial and Industrial	Functioning	01/02/1957	28.80		AHD				1424m	South
10098954	GW107583	Water Supply	Unknown	16/10/2005	9.50		AHD				1426m	East
10144520	GW024694	Water Supply	Functioning	01/08/1966	3.00		AHD	Good			1431m	West
10016395	GW025715	Water Supply	Unknown	01/09/1965	5.40		AHD				1432m	North West
10099807	GW060170	Commercial and Industrial	Functioning		20.00		AHD	Good			1437m	North West
10013243	GW025716	Water Supply	Unknown	01/01/1945	4.80		AHD				1440m	East
10041972	GW108710	Water Supply	Functioning	19/05/2007	15.55		AHD	Good	1.000	10.67	1440m	East
10099072	GW101232	Water Supply	Functioning	03/01/1998	6.00		AHD				1444m	North West
10111698	GW103051	Water Supply	Unknown	28/06/1999	5.80		AHD	Good	1.000	3.05	1444m	North
10124628	GW109055	Water Supply	Unknown	15/07/2008	15.86		AHD	Good	1.000	7.93	1444m	East
10054656	GW106915	Water Supply	Functioning	03/04/2005	7.50		AHD				1445m	North
10034806	GW104747	Water Supply	Functioning	01/01/1995	5.49		AHD				1446m	West
10141178	GW015991	Commercial and Industrial	Functioning	01/02/1957	30.00		AHD				1446m	South
10123135	GW114065	Water Supply	Functioning	03/03/2014	13.00		AHD				1451m	South West
10131708	GW114064	Water Supply	Functioning	03/03/2014	27.00		AHD				1452m	South West
10130346	GW072971	Commercial and Industrial	Unknown	27/02/1995	9.00		AHD				1453m	North East
10112720	GW100872	Water Supply	Functioning	30/07/1996	5.79		AHD	Good	3.700	3.97	1454m	North West
10121961	GW107132	Water Supply	Functioning	23/05/2005	14.64		AHD	Good	1.000	7.32	1454m	North West
10115673	GW108507	Water Supply	Unknown	15/07/2006	8.00		AHD				1455m	North
10125407	GW101033	Water Supply	Functioning	25/11/1997	7.32		AHD	Good	1.000		1455m	North West
10133428	GW109054	Water Supply	Unknown	15/07/2008	8.00		AHD				1455m	North
10018277	GW072897	Water Supply	Unknown	10/12/1994	5.80		AHD	Good			1458m	North West
10066634	GW106178	Water Supply	Functioning	03/07/2004	7.00		AHD		0.500	5.00	1459m	North
10025610	GW108048	Water Supply	Functioning	12/06/2006	16.16		AHD		1.000	8.24	1461m	North West
10023477	GW107927	Water Supply	Functioning	28/03/2006	10.00		AHD				1463m	North East
10021997	GW067576	Water Supply	Unknown	31/12/1991	5.00		AHD				1464m	North West
10125222	GW111438	Water Supply	Unknown	11/02/2007	6.10		AHD	good	1.000	3.50	1464m	North
10088324	GW111150	Water Supply	Functioning	20/10/2010	12.00		AHD				1467m	East
10124048	GW109922	Water Supply	Unknown	20/01/2009	4.58		AHD		1.000	2.44	1467m	North
10135357	GW048235	Other	Unknown	01/05/1979	22.50		AHD	0-500 ppm			1467m	South East
10023729	GW108046	Water Supply	Functioning	17/06/2006	15.86		AHD		1.000	8.23	1468m	North West
10060064	GW109477	Monitoring	Unknown	19/10/2007	20.00		AHD			2.40	1468m	South
10030652	GW105897	Unknown	Unknown	12/05/2005			AHD				1469m	North West
10093191	GW107594	Water Supply	Unknown	15/10/2005	10.00		AHD				1469m	East
10104347	GW023841	Water Supply	Unknown	01/03/1966	4.50		AHD	Good			1469m	East
10127521	GW101136	Water Supply	Functioning	02/01/1998	7.32		AHD	Good	1.000	4.58	1470m	West

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10089552	GW104165	Water Supply	Unknown	13/12/1999	8.40		AHD	Good			1472m	North West
10056865	GW025549	Water Supply	Unknown	01/11/1965	5.70		AHD				1473m	North West
10055957	GW101445	Water Supply	Functioning	08/01/1998	6.00		AHD				1475m	North West
10128903	GW104570	Water Supply	Unknown	09/12/2002	6.50		AHD				1475m	North West
10027724	GW025545	Water Supply	Unknown	01/11/1965	3.90		AHD				1479m	East
10125276	GW106386	Water Supply	Functioning	24/09/2004	7.32		AHD		1.000	2.13	1479m	North
10110133	GW023445	Water Supply	Unknown	01/11/1965	4.20		AHD	Good			1481m	North East
10050698	GW024377	Water Supply	Unknown	01/07/1966	4.50		AHD				1483m	West
10014586	GW024368	Monitoring	Functioning	01/02/1966	12.90	20.50	AHD				1484m	North West
10064468	GW108595	Water Supply	Unknown	03/02/2007	8.00		AHD				1484m	North
10134686	GW106863	Water Supply	Functioning	15/03/2005	16.47		AHD	Good	1.000	7.93	1486m	North West
10058362	GW102741	Water Supply	Unknown	28/10/1999	7.00		AHD				1489m	West
10062864	GW023982	Water Supply	Unknown	01/02/1966	6.00		AHD	Good			1489m	North West
10103882	GW024205	Water Supply	Unknown	01/08/1966	4.80		AHD	Good			1490m	North West
10114609	GW108640	Water Supply	Unknown	01/03/2006	7.50		AHD				1490m	North
10136363	GW107514	Water Supply	Unknown	01/09/2005	7.50		AHD				1493m	North
10058359	GW107296	Water Supply	Functioning	16/04/2005	6.00		AHD				1502m	North
10012220	GW017639	Commercial and Industrial	Unknown	01/08/1955	27.40		AHD				1503m	South West
10119386	GW108788	Water Supply	Functioning	16/04/2007	14.64		AHD		1.000	10.68	1503m	East
10148466	GW017195	Water Supply	Unknown	01/12/1957	3.30		AHD	Good			1505m	West
10098889	GW072958	Water Supply	Unknown	14/08/1995	5.00		AHD				1507m	North West
10052840	GW109466	Monitoring	Unknown	17/10/2007	20.00		AHD			0.90	1510m	South West
10119958	GW108657	Water Supply	Unknown	14/03/2007	15.00		AHD				1511m	East
10106118	GW115215	Water Supply	Functional	11/12/2015	7.00		AHD				1517m	North
10106439	GW115215	Water Supply	Functional	11/12/2015	7.00		AHD				1517m	North
10124605	GW111195	Water Supply	Functioning	01/01/2005	18.28		AHD		0.046	9.14	1519m	East
10000432	GW062073	Commercial and Industrial	Unknown	01/09/1986	29.00		AHD	Good			1523m	South West
10114892	GW016129	Commercial and Industrial	Functioning	01/11/1957	34.30		AHD				1525m	South
10122188	GW025818	Other	Functioning	01/10/1966	23.70		AHD				1529m	West
10124023	GW105496	Water Supply	Unknown	06/10/2003	10.00		AHD				1529m	East
10114362	GW114062	Water Supply	Functioning	03/03/2014	25.00		AHD				1530m	South West
10115210	GW114063	Water Supply	Functioning	03/03/2014	13.00		AHD				1530m	South West
10126559	GW114061	Water Supply	Functioning	03/03/2014	32.80		AHD				1530m	South West
10101535	GW027761	Irrigation	Unknown	01/08/1965	31.00		AHD				1531m	South
10126800	GW107385	Water Supply	Unknown	08/09/2005	9.50		AHD				1531m	East
10041619	GW109464	Monitoring	Unknown	27/09/2007	20.00		AHD			2.40	1532m	South West

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10119850	GW023265	Water Supply	Unknown	01/01/1955	3.60		AHD	Good			1532m	East
10060589	GW109468	Monitoring	Unknown	19/09/2007	20.00		AHD			4.30	1533m	South
10097603	GW101735	Water Supply	Unknown	10/10/1995	10.00		AHD				1535m	South East
10103427	GW024222	Commercial and Industrial	Unknown	01/08/1966	23.70		AHD				1535m	West
10126841	GW107765	Water Supply	Functioning	19/10/2005	12.00		AHD	Good	1.000	9.00	1540m	East
10094860	GW108214	Monitoring	Unknown	13/09/2006	7.30		AHD				1541m	South East
10130614	GW110439	Water Supply	Unknown	24/09/2009	12.00		AHD	Good	1.000	6.00	1542m	East
10098769	GW108225	Water Supply	Functioning	19/08/2006	14.00		AHD				1543m	North
10135119	GW106499	Monitoring	Abandoned	18/07/2002	0.60		AHD				1545m	South West
10058289	GW109469	Monitoring	Unknown	22/10/2007	20.00		AHD			3.20	1548m	South
10129400	GW106492	Monitoring	Unknown	19/07/2002	6.30		AHD				1552m	South West
10125279	GW106498	Monitoring	Unknown	18/07/2002	1.25		AHD				1554m	South West
10119498	GW106497	Monitoring	Abandoned	18/07/2002	1.20		AHD				1556m	South West
10119236	GW114060	Water Supply	Functioning	03/03/2014	14.00		AHD				1563m	South West
10117399	GW114059	Water Supply	Functioning	03/03/2014	23.50		AHD				1564m	South West
10125072	GW106495	Monitoring	Abandoned	19/07/2002	1.30		AHD				1565m	South West
10129398	GW106366	Water Supply	Functioning	18/09/2004	5.81		AHD	Good	1.000	3.05	1565m	North
10120881	GW114057	Water Supply	Functioning	03/03/2014	12.00		AHD				1570m	South West
10121883	GW106493	Monitoring	Abandoned	19/07/2002	1.10		AHD				1570m	South West
10133180	GW114058	Water Supply	Functioning	03/03/2014	33.00		AHD				1570m	South West
10092767	GW106069	Water Supply	Functioning	31/05/2004	7.01		AHD		1.000	4.58	1571m	North West
10123339	GW106494	Monitoring	Unknown	19/07/2002	7.30		AHD				1571m	South West
10119156	GW114056	Water Supply	Functioning	03/03/2014	24.50		AHD				1572m	South West
10125869	GW106496	Monitoring	Unknown	19/07/2002	6.20		AHD				1574m	South West
10089528	GW108861	Other	Functioning	08/05/2008	114.00		AHD		2.210	20.00	1575m	North East
10114046	GW020094	Commercial and Industrial	Unknown	01/10/1962	45.70		AHD				1577m	West
10135546	GW060218	Other	Functioning	01/06/1964	18.30		AHD				1578m	West
10109593	GW115309	Water Supply	Functioning	25/06/2010	7.00		AHD				1579m	North
10120199	GW114055	Water Supply	Functioning	03/03/2014	13.00		AHD				1582m	South West
10142303	GW013432	Commercial and Industrial	Unknown	01/07/1956	28.00		AHD				1582m	South
10117309	GW107741	Water Supply	Functioning	05/01/2006	9.00		AHD				1583m	North West
10097929	GW114054	Water Supply	Functioning	03/03/2014	26.00		AHD				1584m	South West
10045825	GW109467	Monitoring	Unknown	20/09/2007	20.00		AHD			4.40	1585m	South
10101952	GW022240	Commercial and Industrial	Functioning	01/12/1964	25.20		AHD				1589m	South West
10067792	GW109471	Monitoring	Unknown	25/09/2007	20.00		AHD			3.20	1591m	South West

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10057236	GW023577	Water Supply	Unknown	01/03/1966	3.60		AHD	Good			1592m	East
10057001	GW101215	Water Supply	Functioning	24/11/1997	7.62		AHD	Good	1.000		1595m	North West
10081994	GW114053	Water Supply	Functioning	03/03/2014	13.00		AHD				1597m	South West
10084030	GW114052	Water Supply	Functioning	03/03/2014	26.00		AHD				1597m	South West
10092049	GW109119	Water Supply	Unknown	25/07/2008	7.63		AHD	Good	1.000	13.05	1597m	North
10123309	GW103708	Water Supply	Unknown	26/04/2001	6.00		AHD				1600m	North West
10117765	GW032339	Commercial and Industrial	Proposed	01/02/1970	33.20		AHD				1602m	South West
10119685	GW110786	Water Supply	Unknown	11/03/2010	8.00		AHD				1606m	North
10098183	GW107584	Water Supply	Unknown	10/10/2005	7.50		AHD				1609m	North
10089462	GW114051	Water Supply	Functioning	03/03/2014	14.00		AHD				1612m	South West
10094737	GW114050	Water Supply	Functioning	03/03/2014	26.70		AHD				1612m	South West
10064651	GW106296	Water Supply	Functioning	09/08/2004	6.10		AHD	Good	1.000	3.05	1613m	North
10050814	GW100825	Water Supply	Functioning	23/04/1996	7.01		AHD	Good	1.000	4.88	1617m	North West
10149760	GW060240	Other	Unknown	01/01/1980	20.00		AHD				1618m	South
10128581	GW107789	Water Supply	Unknown	01/06/2004	7.00		AHD				1620m	North
10135272	GW065548	Commercial and Industrial	Unknown	01/05/1989	26.50		AHD	7001-10000 ppm			1623m	South West
10099449	GW106076	Water Supply	Functioning	22/06/2004	5.79		AHD		1.000	1.83	1624m	North
10081778	GW114047	Water Supply	Functioning	03/03/2014	29.50		AHD				1627m	South West
10120156	GW104981	Water Supply	Functioning	05/12/2001	6.00		AHD			3.00	1628m	North West
10082023	GW114049	Water Supply	Functioning	03/03/2014	14.00		AHD				1629m	South West
10088094	GW114048	Water Supply	Functioning	03/03/2014	24.50		AHD				1630m	South West
10118859	GW106488	Water Supply	Functioning	01/11/2004	6.10		AHD	Good	1.000	3.50	1630m	North
10122335	GW017351	Commercial and Industrial	Unknown	01/07/1957	22.50		AHD				1630m	South West
10131868	GW065549	Commercial and Industrial	Unknown	01/07/1980	22.50		AHD				1630m	South West
10114874	GW023261	Water Supply	Unknown	01/11/1965	5.40		AHD	Good			1634m	East
10128567	GW108660	Water Supply	Unknown	19/04/2007	16.00		AHD				1634m	North
10123300	GW108422	Water Supply	Unknown	18/01/2007	14.00		AHD				1637m	North
10085805	GW114045	Water Supply	Functioning	28/02/2014	27.00		AHD				1639m	South West
10133667	GW042168	Monitoring	Abandoned	13/02/1975		6.56	AHD				1639m	South West
10088309	GW114046	Water Supply	Functioning	28/02/2014	22.00		AHD				1640m	South West
10123580	GW110535	Water Supply	Unknown	30/10/2009	12.00		AHD				1649m	North
10060701	GW114024	Water Supply	Functioning	27/02/2014	22.00		AHD				1652m	South
10125800	GW101034	Water Supply	Functioning	22/11/1997	5.18		AHD	Good	1.000		1652m	West
10098882	GW114043	Water Supply	Functioning	28/02/2014	29.00		AHD				1654m	South West
10062880	GW114025	Water Supply	Functioning	27/02/2014	13.00		AHD				1655m	South

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10097382	GW114044	Water Supply	Functioning	28/02/2014	24.00		AHD				1656m	South West
10126185	GW106098	Water Supply	Unknown	22/01/2004	9.50		AHD				1656m	North
10104449	GW028592	Commercial and Industrial	Functioning	01/03/1966	28.00		AHD	Good			1657m	South West
10109265	GW023842	Water Supply	Unknown	01/01/1966	7.60		AHD	Good			1657m	South East
10013103	GW025710	Commercial and Industrial	Unknown	01/07/1965	29.50		AHD	Good			1662m	South West
10119743	GW072280	Water Supply	Functioning	02/06/1994	8.00		AHD				1663m	North
10017424	GW017653	Other	Unknown	01/11/1957	25.60		AHD				1664m	North West
10062345	GW101330	Water Supply	Functioning	16/12/1997	9.00		AHD				1664m	East
10124748	GW106237	Water Supply	Functioning	24/06/2004	9.00		AHD		0.500	6.00	1667m	North
10123735	GW107906	Water Supply	Unknown	01/04/2006	7.50		AHD				1668m	North
10102805	GW025781	Water Supply	Unknown	01/10/1965	4.50		AHD	Good			1670m	North
10058275	GW114022	Water Supply	Functioning	27/02/2014	22.00		AHD				1671m	South
10062593	GW114023	Water Supply	Functioning	27/02/2014	13.00		AHD				1672m	South
10137025	GW028289	Water Supply	Unknown	01/09/1966	6.00		AHD	Very Good			1672m	North West
10090721	GW114041	Water Supply	Functioning	28/02/2014	29.30		AHD				1673m	South West
10124828	GW111452	Water Supply	Functioning	01/01/1962	9.00		AHD				1675m	North
10119305	GW113303	Monitoring	Functional	01/11/2010	5.20		AHD				1679m	North East
10125267	GW100768	Water Supply	Functioning	01/10/1995	17.39		AHD	Good	0.500		1679m	North
10055973	GW017473	Water Supply	Unknown		7.60		AHD				1680m	North
10084932	GW114039	Water Supply	Functioning	28/02/2014	29.00		AHD				1680m	South West
10084933	GW114040	Water Supply	Functioning	28/02/2014	22.50		AHD				1682m	South West
10019635	GW032273	Commercial and Industrial	Unknown	01/01/1970	31.30		AHD				1684m	South West
10060928	GW114020	Water Supply	Functioning	27/02/2014	21.00		AHD				1687m	South
10124410	GW107760	Water Supply	Functioning	19/01/2007	6.00		AHD				1688m	North
10059363	GW114021	Water Supply	Functioning	27/02/2014	13.00		AHD				1689m	South
10088693	GW114038	Water Supply	Functioning	28/02/2014	22.00		AHD				1690m	South West
10100788	GW105307	Water Supply	Functioning	01/01/1970			AHD				1690m	North
10092321	GW073515	Water Supply	Functioning	23/11/1995	7.00		AHD				1697m	North West
10130839	GW113302	Monitoring	Functional	01/11/2010	5.20		AHD				1700m	North East
10082716	GW114037	Water Supply	Functioning	28/02/2014	12.50		AHD				1701m	South West
10137175	GW048233	Exploration	Proposed	01/11/1977			AHD	0-500 ppm			1701m	South East
10085815	GW114035	Water Supply	Functioning	28/02/2014	26.00		AHD				1702m	South West
10084034	GW114036	Water Supply	Functioning	28/02/2014	22.00		AHD				1704m	South West
10129751	GW065547	Commercial and Industrial	Unknown	01/04/1981	34.00		AHD				1704m	South West
10063525	GW114018	Water Supply	Functioning	27/02/2014	19.00		AHD				1706m	South
10063666	GW114019	Water Supply	Functioning	27/02/2014	13.00		AHD				1709m	South

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10120257	GW017350	Commercial and Industrial	Unknown	01/11/1957	32.30		AHD				1709m	South West
10090831	GW114032	Water Supply	Functioning	28/02/2014	27.00		AHD				1713m	South West
10093434	GW114033	Water Supply	Functioning	28/02/2014	21.00		AHD				1713m	South West
10095824	GW114034	Water Supply	Functioning	28/02/2014	13.50		AHD				1715m	South West
10058829	GW114017	Water Supply	Functioning	27/02/2014	12.00		AHD				1721m	South
10084264	GW114031	Water Supply	Functioning	28/02/2014	14.00		AHD				1728m	South West
10131405	GW101546	Water Supply	Unknown	16/03/1998	4.58		AHD	Good	1.000	1.83	1728m	South West
10094782	GW114030	Water Supply	Functioning	28/02/2014	22.00		AHD				1729m	South West
10122865	GW113301	Monitoring	Functional	01/11/2010	5.20		AHD				1731m	North East
10124393	GW104947	Monitoring	Unknown	21/02/2002	5.00		AHD	210	0.650	2.71	1736m	North East
10085092	GW114028	Water Supply	Functioning	27/02/2014	27.00		AHD				1739m	South West
10113828	GW016130	Commercial and Industrial	Functioning	01/11/1957	30.70		AHD				1740m	South
10087361	GW114029	Water Supply	Functioning	27/02/2014	13.00		AHD				1741m	South West
10058129	GW114014	Water Supply	Functioning	27/02/2014	16.20		AHD				1742m	South
10067583	GW114015	Water Supply	Functioning	27/02/2014	12.00		AHD				1743m	South
10067470	GW026468	Other	Unknown	01/07/1966	19.60		AHD				1744m	North
10129332	GW109042	Water Supply	Unknown	14/07/2008	17.69		AHD	Good	1.000	8.54	1747m	North West
10091627	GW109001	Water Supply	Unknown	09/07/2008	15.55		AHD	Good	1.000	15.55	1748m	East
10112932	GW020494	Commercial and Industrial	Unknown	01/06/1963	30.90		AHD				1749m	South West
10065699	GW114016	Water Supply	Functioning	27/02/2014	17.00		AHD				1751m	South
10020439	GW025544	Water Supply	Functioning	01/10/1965	4.80		AHD	Good			1754m	South West
10058732	GW102616	Water Supply	Unknown	27/09/1999	6.00		AHD				1754m	South West
10025674	GW111465	Water Supply	Functioning	17/05/2011	9.00		AHD	good	0.500	7.00	1756m	North
10058988	GW114026	Water Supply	Functioning	27/02/2014	26.00		AHD				1759m	South
10089682	GW114027	Water Supply	Functioning	27/02/2014	13.00		AHD				1760m	South
10124680	GW113299	Monitoring	Unknown	01/11/2010	5.20		AHD				1761m	North East
10020381	GW107668	Water Supply	Functioning	12/12/2005	12.81		AHD	Good	1.000	6.41	1765m	North
10052399	GW106163	Water Supply	Abandoned	09/07/2004	7.00		AHD				1766m	East
10120001	GW106132	Water Supply	Functioning	27/04/2004	10.37		AHD	Good	1.000		1769m	North
10129622	GW060225	Other	Functioning		24.00		AHD				1769m	South East
10113693	GW017718	Commercial and Industrial	Unknown	01/10/1957	21.30		AHD				1771m	West
10130766	GW042163	Monitoring	Unknown		24.00	13.14	AHD				1771m	South West
10056195	GW013339	Other	Unknown	01/05/1956	16.40	20.90	AHD	Good			1773m	North
10059640	GW023179	Irrigation	Unknown		7.60		AHD	Good			1773m	North
10058413	GW109470	Monitoring	Unknown	24/09/2007	20.00		AHD			3.10	1774m	South

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10071085	GW114013	Water Supply	Functioning	27/02/2014	12.00		AHD				1775m	South
10064195	GW025574	Water Supply	Functioning	01/10/1965	4.80		AHD	Good			1776m	West
10124690	GW106483	Water Supply	Abandoned	12/10/2004	5.00		AHD				1776m	South East
10119166	GW113300	Monitoring	Functional	01/11/2010	5.20		AHD				1780m	North East
10053208	GW114010	Water Supply	Functioning	27/02/2014	18.30		AHD				1784m	South
10048537	GW114011	Water Supply	Functioning	27/02/2014	12.00		AHD				1786m	South
10051167	GW023600	Water Supply	Unknown	01/01/1966	7.30		AHD	Good			1786m	West
10133790	GW107233	Other	Unknown	28/06/2005	21.50		AHD		11.000	0.37	1786m	West
10052775	GW111238	Water Supply	Functioning	11/10/2010	12.00		AHD				1787m	North West
10010351	GW075021	Monitoring	Unknown	13/07/1998	43.00	8.54	AHD			3.23	1793m	North
10046291	GW107804	Water Supply	Functioning	20/01/2006	13.42		AHD	Good	1.000	7.63	1793m	North
10131023	GW042167	Monitoring	Unknown		13.01	7.68	AHD				1795m	South West
10079441	GW073502	Water Supply	Unknown	04/11/1995	11.30		AHD	Good			1798m	East
10096660	GW110240	Other	Unknown	12/11/2008	150.00		AHD	100	0.500	16.50	1798m	North East
10052856	GW114008	Water Supply	Functioning	27/02/2014	18.00		AHD				1800m	South
10144860	GW028666	Irrigation	Unknown	01/08/1967	25.20		AHD				1801m	South East
10047012	GW114009	Water Supply	Functioning	27/02/2014	12.00		AHD				1802m	South
10104196	GW107593	Water Supply	Functioning	29/11/2005	12.20		AHD	Good	1.000	6.41	1802m	North
10095009	GW105551	Water Supply	Unknown	01/02/2003	7.63		AHD		1.000	4.58	1803m	North
10058634	GW072214	Water Supply	Unknown	01/03/1995	5.00		AHD				1804m	North West
10033053	GW106021	Water Supply	Functioning	22/03/2003	16.47		AHD		1.000	7.32	1809m	North West
10131715	GW107868	Water Supply	Unknown	13/03/2006			AHD				1811m	South East
10034478	GW107154	Water Supply	Functioning	26/05/2005	7.93		AHD		1.000	4.88	1814m	North
10119545	GW101783	Water Supply	Unknown	18/12/1995	5.00		AHD				1814m	North
10114623	GW107738	Water Supply	Functioning	05/01/2006	7.00		AHD	Good	0.500	5.00	1815m	North
10046820	GW114007	Water Supply	Functioning	27/02/2014	11.00		AHD				1817m	South
10047499	GW114006	Water Supply	Functioning	27/02/2014	18.00		AHD				1817m	South
10011910	GW017651	Other	Unknown	01/02/1954	29.20		AHD				1820m	North West
10087171	GW111279	Water Supply	Functioning	14/11/2001	6.00		AHD				1825m	North
10028906	GW105770	Water Supply	Functioning	07/01/2004	7.01		AHD		1.000	4.58	1832m	North
10059743	GW106031	Water Supply	Functioning	31/03/2004	5.79		AHD		1.000		1832m	North
10091314	GW114042	Water Supply	Functioning	28/02/2014	23.00		AHD				1836m	South West
10072953	GW109472	Monitoring	Unknown	21/09/2007	20.00		AHD			2.30	1840m	South
10100511	GW107444	Water Supply	Functioning	10/09/2005	7.00		AHD	430	0.500	3.00	1840m	North
10060720	GW109475	Monitoring	Unknown	20/03/2007	15.00		AHD			1.00	1849m	South
10123713	GW104966	Water Supply	Functioning	29/09/2001	6.00		AHD		1.000	3.05	1849m	North

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10100746	GW023429	Water Supply	Unknown	01/01/1966	6.00		AHD	Good			1850m	South West
10026727	GW111845	Monitoring	Functional	11/08/2009	3.00		AHD			2.69	1855m	North East
10002963	GW026787	Commercial and Industrial	Unknown	01/10/1965	24.80		AHD				1856m	West
10126598	GW102697	Monitoring	Unknown	22/11/1999	4.50		AHD				1856m	South West
10137905	GW102698	Monitoring	Unknown	22/11/1999	4.50		AHD				1856m	South West
10030099	GW106022	Water Supply	Functioning	08/03/2004	5.00		AHD				1858m	South East
10048787	GW108837	Water Supply	Unknown	21/01/2006	7.50		AHD				1860m	North
10023500	GW017652	Other	Unknown		24.60		AHD				1861m	North West
10045985	GW040779	Unknown	Abandoned		10.66		AHD				1862m	South West
10120685	GW104984	Water Supply	Functioning	24/01/2002	9.00		AHD		1.000	7.00	1865m	North
10113077	GW102800	Water Supply	Unknown	12/01/2000	6.10		AHD	Good			1869m	West
10119566	GW110429	Monitoring	Unknown	12/02/2002	4.00		AHD				1875m	North West
10071963	GW109473	Monitoring	Unknown	21/09/2007	20.00		AHD			2.10	1876m	South
10134208	GW110414	Monitoring	Unknown	13/02/2002	4.00		AHD				1878m	North West
10126125	GW100003	Water Supply	Functioning	15/05/1995	5.80		AHD	Good	1.000	2.14	1879m	West
10100142	GW101750	Water Supply	Unknown	11/10/1995	8.00		AHD				1883m	South
10138725	GW102699	Monitoring	Unknown	22/11/1999	4.50		AHD				1884m	South West
10058290	GW109474	Monitoring	Unknown	21/03/2007	13.00		AHD			2.40	1885m	South
10130491	GW110430	Monitoring	Unknown	12/02/2002	4.00		AHD				1886m	North West
10107118	GW013577	Commercial and Industrial	Unknown	01/07/1957	26.80		AHD				1888m	South
10134771	GW042166	Monitoring	Unknown	13/02/1975		10.79	AHD				1888m	South West
10025043	GW111844	Monitoring	Functional	11/08/2009	4.80		AHD			2.67	1890m	North East
10123379	GW110431	Monitoring	Unknown	12/02/2002	5.00		AHD				1890m	North West
10120758	GW110427	Monitoring	Unknown	13/02/2002	7.00		AHD				1894m	North West
10100576	GW108998	Water Supply	Unknown	09/07/2008	13.72		AHD	Good	1.000	4.58	1899m	North
10112613	GW017722	Commercial and Industrial	Unknown	01/10/1957	18.10		AHD				1899m	West
10131643	GW042176	Monitoring	Unknown			13.62	AHD			0.00	1900m	South
10135066	GW042176	Monitoring	Unknown		20.30	13.62	AHD			0.00	1900m	South
10134115	GW102700	Monitoring	Unknown	22/11/1999	4.50		AHD				1901m	South
10011502	GW017851	Commercial and Industrial	Functioning	01/03/1958	4.50		AHD				1903m	North East
10057875	GW023589	Water Supply	Unknown	01/02/1966	3.60		AHD	Fair			1903m	South East
10122946	GW110428	Monitoring	Unknown	12/02/2002	4.00		AHD				1906m	North West
10122594	GW108286	Water Supply	Functioning	13/11/2006	15.25		AHD		1.000	4.88	1908m	North
10085391	GW104038	Monitoring	Unknown	10/11/2000	4.00		AHD			2.00	1909m	North West
10086747	GW104031	Monitoring	Unknown	08/11/2000	7.00		AHD			2.00	1909m	North West

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10087185	GW104033	Monitoring	Unknown	08/11/2000	4.00		AHD			2.00	1909m	North West
10088869	GW104036	Monitoring	Unknown	09/11/2000	7.00		AHD			2.00	1909m	North West
10089301	GW104034	Monitoring	Unknown	09/11/2000	7.00		AHD			2.00	1909m	North West
10090885	GW104035	Monitoring	Unknown	09/11/2000	7.00		AHD			2.00	1909m	North West
10092122	GW104037	Monitoring	Unknown	09/11/2000	4.00		AHD			2.00	1909m	North West
10095015	GW104032	Monitoring	Unknown	08/11/2000	7.00		AHD			2.00	1909m	North West
10042864	GW111846	Monitoring	Functional	11/08/2009	5.60		AHD			2.94	1911m	North East
10127991	GW110524	Water Supply	Unknown	18/11/2009	1.50		AHD				1912m	North East
10135306	GW106875	Water Supply	Functioning	24/01/2005	5.79		AHD		1.000	3.05	1914m	North
10128349	GW073445	Water Supply	Unknown	20/10/1995	10.00		AHD				1919m	North
10086463	GW106323	Water Supply	Functioning	09/02/2004	3.00		AHD		0.500	1.50	1922m	South East
10086802	GW102008	Water Supply	Unknown	20/04/1998	6.10		AHD	Good	6.100	1.83	1925m	North
10125312	GW102701	Monitoring	Unknown	22/11/1999	4.50		AHD				1929m	South
10062887	GW109476	Monitoring	Unknown	22/03/2007	13.00		AHD			1.10	1932m	South
10121089	GW013383	Commercial and Industrial	Unknown	01/01/1958	34.10		AHD	Good			1932m	South West
10056415	GW108705	Water Supply	Functioning	27/03/2004	13.72		AHD	Good	1.000	4.58	1933m	North
10120475	GW115327	Monitoring	Functional	25/01/2006	3.50		AHD				1935m	West
10120762	GW107093	Water Supply	Unknown	02/05/2006	13.73		AHD	Good	1.000	5.18	1935m	North
10111864	GW017720	Commercial and Industrial	Unknown	01/10/1956	20.40		AHD				1937m	West
10018077	GW112855	Monitoring	Functional	05/05/2009	6.50		AHD			2.23	1939m	North East
10023983	GW112856	Monitoring	Functional	14/05/2009	5.00		AHD				1939m	North East
10020549	GW112857	Monitoring	Functional	05/05/2009	5.20		AHD				1940m	North East
10109287	GW017352	Commercial and Industrial	Unknown	01/01/1955	18.60		AHD				1941m	South West
10094973	GW105567	Water Supply	Unknown	30/10/2003	7.00		AHD	Good	0.500	4.70	1942m	North
10134604	GW109681	Water Supply	Unknown	13/10/2008	6.00		AHD				1945m	North East
10025994	GW112858	Monitoring	Functional	14/05/2009	3.50		AHD				1946m	North East
10014439	GW047122	Other	Functioning	01/11/1970	19.50		AHD				1947m	West
10017859	GW108442	Water Supply	Unknown	06/01/2007	8.00		AHD				1947m	North
10121918	GW109680	Water Supply	Unknown	14/10/2008	5.50		AHD				1950m	North East
10090515	GW104040	Monitoring	Unknown	10/11/2000	7.00		AHD			2.80	1951m	North West
10098205	GW104039	Monitoring	Unknown	10/11/2000	7.00		AHD			2.80	1951m	North West
10000460	GW026788	Commercial and Industrial	Unknown	01/11/1965	20.40		AHD				1952m	West
10086277	GW110778	Water Supply	Unknown	25/01/2010	23.00		AHD		1.000	18.00	1952m	North
10119041	GW111956	Water Supply	Functioning	12/12/2012	10.00		AHD		1.000	5.00	1952m	South East
10123491	GW106106	Water Supply	Functioning	02/06/2004	7.01		AHD		1.000	3.96	1952m	North

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10046615	GW110856	Monitoring	Unknown	22/07/2004	13.20		AHD	176	1.000	10.00	1953m	North
10107408	GW115326	Monitoring	Functional	25/07/2005	3.50		AHD				1953m	West
10054864	GW101452	Water Supply	Functioning	17/02/1998	6.00		AHD				1954m	North
10121041	GW022471	Commercial and Industrial	Unknown	01/01/1960	33.00		AHD				1955m	South West
10126432	GW111554	Monitoring	Functional	03/09/2008	4.00		AHD			2.58	1955m	North East
10116240	GW017717	Commercial and Industrial	Unknown	01/06/1955	16.10		AHD				1957m	West
10110145	GW115323	Monitoring	Functional	25/07/2005	3.50		AHD				1958m	West
10111468	GW115324	Monitoring	Functional	25/07/2005	3.50		AHD				1958m	West
10126008	GW102702	Monitoring	Unknown	22/11/1999	4.50		AHD				1958m	South
10117200	GW013387	Commercial and Industrial	Unknown	01/05/1957	34.70		AHD	Good			1959m	South West
10033585	GW101819	Water Supply	Unknown	20/10/1995	5.00		AHD				1960m	South
10130838	GW109679	Water Supply	Unknown	13/10/2008	6.00		AHD				1963m	North East
10015478	GW073459	Water Supply	Unknown	24/10/1995	7.00		AHD	Good			1964m	North
10084099	GW113288	Monitoring	Functional	01/05/2010	4.00		AHD				1964m	North East
10122313	GW072463	Commercial and Industrial	Functioning	14/11/1994	43.00		AHD		1.870	8.60	1964m	North East
10042315	GW111847	Monitoring	Functional	11/08/2009	5.00		AHD			3.77	1967m	North East
10097254	GW111004	Water Supply	Functioning	19/07/2010	13.12		AHD	good	1.000	4.88	1967m	North
10092366	GW113289	Monitoring	Functional	01/05/2010	4.00		AHD				1968m	North East
10116115	GW107740	Water Supply	Functioning	19/10/2005	11.50		AHD	Good	1.000	9.00	1969m	East
10114259	GW115325	Monitoring	Functional	25/07/2005	3.50		AHD				1971m	West
10009716	GW023138	Water Supply	Unknown	01/09/1965	4.80		AHD	Excellent			1972m	North
10023272	GW109194	Monitoring	Unknown	11/08/2008	7.00		AHD				1972m	South West
10090796	GW113287	Monitoring	Functional	01/05/2010	3.90		AHD			2.50	1972m	North East
10030185	GW106146	Water Supply	Functioning	21/09/1995	7.32		AHD	Good	1.000		1973m	North
10126120	GW110015	Monitoring	Unknown	09/05/2007	7.00		AHD				1978m	South West
10123392	GW112837	Monitoring	Functional	08/12/2010	8.10		AHD			5.30	1991m	South West
10125788	GW112838	Monitoring	Functional	08/12/2010	8.05		AHD			5.30	1993m	South West
10136330	GW072479	Water Supply	Functioning	21/11/1994	5.80		AHD		1.000	2.60	1994m	North West
10025566	GW023572	Water Supply	Unknown	01/01/1960	3.60		AHD	Good			1997m	North
10058197	GW106052	Water Supply	Functioning	11/03/2004	9.00		AHD				1998m	South East

Hydrogeology & Groundwater

68-80 Banks Avenue, Pagewood, NSW 2035

Driller's Logs

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

NGIS Bore ID	Drillers Log	Distance	Direction
10126095	0.00m-7.93m Unconsolidated Sand	69m	South
10123222	0.00m-10.00m SAND	87m	North East
10123857	0.00m-10.00m SAND	90m	South
10121377	0.00m-4.50m LIGHT BROWN SAND 4.50m-5.00m BROWN SAND AND WOOD 5.00m-8.60m LIGHT BROWN SAND 8.60m-9.40m BLACK PEAT 9.40m-16.90m LIGHT BROWN SAND 16.90m-18.50m BLACK PEAT 18.50m-22.70m BROWN SILTY SAND 22.70m-24.00m BLACK PEAT 24.00m-26.50m BROWN PEATY SAND 26.50m-30.00m LIGHT BROWN SAND	104m	South West
10087163	0.00m-2.50m SAND 2.50m-3.50m ALLUVIUM 3.50m-10.00m SAND	186m	South East
10108611	0.00m-0.91m Sand Grey 0.91m-2.13m Sand Yellow 2.13m-2.74m Sand Hard Cemented 2.74m-7.16m Sand Yellow Water Supply	189m	South East
10144564	0.00m-1.00m Overburden Topsoil 1.00m-40.00m Sand White Some Slightly Peat Water Supply	190m	South
10023778	0.00m-1.21m Sand Grey 1.21m-5.48m Sand Cream 5.48m-7.31m Sand White Water Supply	198m	South East
10127315	0.00m-10.00m	227m	South East
10058641	0.00m-10.00m	236m	North East
10106137	0.00m-25.60m Sand Water Supply 25.60m-26.21m Sandstone	259m	South
10095887	0.00m-9.50m Sand	280m	East
10050015	0.00m-10.00m	359m	East
10068620	0.00m-0.20m CONCRETE 0.20m-0.40m FILL 0.40m-13.50m SAND	410m	South East
10067241	0.00m-0.20m CONCRETE 0.20m-0.80m FILL 0.80m-13.00m SAND	411m	South East
10123928	0.00m-3.65m Sand 3.65m-3.74m Sand Hard Cemented 3.74m-5.18m Sand White 5.18m-7.01m Sand Water Supply	412m	North East
10113366	0.00m-0.24m Made Ground 0.24m-0.46m Sand Some Hard Cemented 0.46m-11.73m Sand Light Brown 11.73m-15.85m Sand Water Supply 15.85m-20.88m Sand Peat Seams Water Supply 20.88m-21.03m Sand Hard Cemented 21.03m-24.38m Sand Water Supply 24.38m-28.96m Sand Water Supply Clay Traces Pete 28.96m-30.78m Sand Yellow Grey Water Supply Clay Traces 30.78m-32.00m Sand Grey Water Supply 32.00m-32.31m Sand Reddish Water Supply 32.31m-38.19m Sand White Grey Water Supply 38.19m-38.25m Peat 38.25m-40.84m Sand Grey Clay 40.84m-40.86m Sandstone	422m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10011687	0.00m-8.53m Sand Light Brown 8.53m-20.73m Sand Peaty Water Supply 20.73m-24.38m Sand Light Brown Water Supply 24.38m-26.82m Sand Peaty Water Supply 26.82m-32.00m Sand Water Supply 32.00m-33.83m Sand White Water Supply 33.83m-34.44m Peat 34.44m-35.97m Sand Water Supply 35.97m-41.76m Sand White Water Supply 41.76m-42.37m Peat Sand 42.37m-42.67m Clay Grey	424m	West
10010469	0.00m-3.04m Sand Dirty 3.04m-3.65m Sand Hard Cemented 3.65m-7.62m Sand Yellow 7.62m-9.14m Sand White 9.14m-11.27m Sand White Yellow 11.27m-26.21m Sand White Water Supply	434m	South
10013756	0.00m-16.76m Sand Water Supply 16.76m-18.59m Sand Peat Bands Water Supply 18.59m-28.95m Sand Water Supply 28.95m-29.56m Sandstone Soft	434m	South
10063123	0.00m-0.40m CONCRETE 0.40m-1.20m FILL 1.20m-14.00m SAND	436m	South East
10062891	0.00m-1.00m TOPSOIL 1.00m-3.00m SILT 3.00m-19.00m SAND 19.00m-20.00m PEAT/COAT 20.00m-36.00m SAND	446m	North
10054261	1.00m-10.00m sand	453m	North East
10054262	0.00m-10.00m Sand	453m	North East
10057151	0.00m-4.57m Sand 4.57m-6.09m Sand Wet 6.09m-7.31m Sand Peaty 7.31m-10.97m Sand 10.97m-11.58m Sand Dark Brown 11.58m-14.63m Sand 14.63m-14.93m Clay Sandy 14.93m-16.15m Sand 16.15m-16.76m Clay Peaty 16.76m-18.28m Sand 18.28m-18.89m Peat Bands 18.89m-19.50m Clay Sandy 19.50m-20.72m Sand White 20.72m-21.94m Sand 21.94m-22.55m Sand Yellow 22.55m-24.99m Sand Gravel 24.99m-29.87m Sand Clean 29.87m-33.52m Sand White Clean 33.52m-34.13m Sand Yellow 34.13m-35.05m Sand Peaty	473m	North
10133538	0.00m-16.00m sand	483m	East
10105032	0.00m-6.10m Sand White 6.10m-7.92m Sand Yellow 7.92m-10.97m Sand Some Traces Clay Fine 10.97m-14.63m Sand White 14.63m-16.46m Sand 16.46m-18.29m Sand White 18.29m-18.90m Sand Water Supply 18.90m-21.95m Sand White Water Supply 21.95m-24.08m Sand Dirty Water Supply 24.08m-24.38m Sand White Water Supply 24.38m-25.91m Sand Water Supply 25.91m-35.97m Sand White Water Supply 35.97m-37.49m Sand Some Clay 37.49m-37.80m Clay Grey	492m	North
10064172	0.00m-2.13m Sand Cemented 2.13m-4.57m Sand 4.57m-8.53m Sand Peaty 8.53m-15.24m Sand Grey 15.24m-16.76m Peat 16.76m-19.51m Sand Grey Water Supply 19.51m-22.56m Peat 22.56m-25.60m Sand White Water Supply 25.60m-26.52m Sand Peaty Some Clayey Water Supply 26.52m-27.43m Sand Grey Dirty Water Supply 27.43m-37.49m Sand White Water Supply 37.49m-37.80m Clay Grey	499m	South West

NGIS Bore ID	Drillers Log	Distance	Direction
10123383	0.00m-15.00m sand	501m	East
10017042	0.00m-1.52m Sand Dirty 1.52m-6.09m Sand Yellow 6.09m-7.62m Sand Hard Cemented 7.62m-9.14m Sand Wet 9.14m-12.19m Sand Light Yellow Water Supply 12.19m-13.71m Peat Water Supply 13.71m-18.28m Sand Grey Water Supply 18.28m-26.21m Clay Grey Water Supply 26.21m-29.26m Sand White Water Supply	522m	South
10127237	0.00m-9.50m sand	529m	South East
10018756	0.00m-20.00m SANDS,FINE,VERY FINE,DK GREY IN COLOUR	532m	North
10051269	0.00m-1.52m Sand White 1.52m-3.04m Sand Hard Cemented 3.04m-5.79m Sand Yellow Water Supply	532m	North East
10065936	0.00m-31.00m BOTANY SANDS 31.00m-36.00m HAWKESBURY SANDSTONE	532m	North
10054490	0.00m-10.00m sand	542m	South East
10131559	0.00m-9.50m	542m	North East
10120333	0.00m-4.87m Sand Yellow 4.87m-8.22m Sand Clean 8.22m-8.99m Peat Water Supply 8.99m-10.05m Sand Peaty Water Supply 10.05m-10.54m Peat Water Supply 10.54m-14.32m Sand Peaty Water Supply 14.32m-16.45m Sand 16.45m-17.98m Sand Bands 17.98m-19.50m Peat Fossils:wood 19.50m-22.86m Sand Clay Bands 22.86m-22.87m Clay	544m	North West
10131500	0.00m-16.00m sand	544m	East
10110425	0.00m-0.45m Ash Sand 0.45m-8.22m Sand Yellow Dry Water Supply 8.22m-13.41m Sand Yellow Water Supply 13.41m-13.56m Clay Grey Sandy 13.56m-16.76m Sand Yellow Water Supply 16.76m-17.98m Sand Water Supply 17.98m-28.04m Sand Yellow Water Supply 28.04m-31.69m Sand White Water Supply 31.69m-31.79m Clay White Sandy 31.79m-37.49m Sand White Water Supply 37.49m-37.64m Peat	545m	South
10123107	0.00m-16.00m sand	546m	South East
10019813	0.00m-0.30m Made Ground 0.30m-10.97m Sand Grey Dry 10.97m-12.80m Sand White Clayey Dry Water Supply 12.80m-14.02m Sand White Water Supply 14.02m-14.63m Peat Water Supply 14.63m-18.59m Sand Grey Dry Water Supply 18.59m-18.89m Peat Water Supply 18.89m-21.33m Sand Dirty Water Supply 21.33m-30.78m Sand Yellow Water Supply 30.78m-34.13m Sand Light Yellow Water Supply 34.13m-36.57m Sand White Water Supply 36.57m-37.49m Sand White Peaty 37.49m-38.40m Clay Grey	562m	South
10120551	0.00m-1.06m Sand Dark Grey 1.06m-1.44m Sand White 1.44m-1.52m Sand Hard Cemented 1.52m-7.62m Sand Water Supply 7.62m-13.71m Sand White 13.71m-16.45m Sand Clay 16.45m-16.76m Sand 16.45m-16.76m Gravel 16.76m-17.98m Sand Slightly Clay 17.98m-18.28m Clay Sandy 18.28m-23.46m Sand White 23.46m-27.43m Sand Cream 27.43m-31.69m Sand White 31.69m-34.13m Clay Yellow Sandy 34.13m-36.57m Sand Yellow 36.57m-37.18m Sand Dirty 37.18m-37.33m Sandstone	563m	East

NGIS Bore ID	Drillers Log	Distance	Direction
10015652	0.00m-0.30m Sand Grey 0.30m-1.22m Sand White 1.22m-3.51m Sand Yellow 3.51m-5.94m Sand White 5.94m-8.84m Sand Yellow Water Supply 8.84m-10.06m Sand Grey Water Supply 10.06m-10.97m Sand White Water Supply 10.97m-11.58m Sand Grey Water Supply 11.58m-13.72m Sand Yellow Water Supply 13.72m-15.24m Sand White Water Supply 15.24m-16.76m Sand White Dry Water Supply 16.76m-17.53m Sand Yellow Water Supply 17.53m-17.68m Clay Dark Grey 17.68m-18.90m Sand Yellow Some Small Clay Bands Water Supply 18.90m-24.38m Sand Dirty Water Supply 24.38m-28.04m Sand Yellow White Water Supply 28.04m-33.22m Sand White Water Supply 33.22m-34.90m Sand Yellow Water Supply 34.90m-36.94m Sand 36.94m-37.35m Sandstone	568m	East
10007633	0.00m-2.00m SAND,COFFEE BROWN 2.00m-5.00m SAND,MED GRAINED,YELLOW 5.00m-7.50m SAND,FINE,WHITE 7.50m-8.00m PEAT,FINE,BLACK 8.00m-12.00m PEATY SAND,DARK BROWN 12.00m-18.00m SILTY SAND,FINE GRAINED 18.00m-24.50m SAND,MED. COARSE 24.50m-25.50m BEDROCK	579m	North East
10099117	0.00m-16.77m Sand, unconsolidated	579m	South East
10122270	0.00m-18.00m sand	580m	South East
10058862	0.00m-1.00m White Sand 1.00m-1.30m Coffee Rock 1.30m-9.50m Light Brown Shale 9.50m-11.50m Light Brown Peaty Sand 11.50m-13.00m Dark Brown Peaty Sand 13.00m-25.50m Light Brown Peaty Sand 25.50m-27.00m Peat 27.00m-31.00m Brown Peaty Sand 31.00m-38.00m Grey/Brown Peaty Clay	587m	South West
10087720	0.00m-17.00m SAND	592m	South East
10093832	0.00m-16.00m sand	592m	South East
10071163	0.00m-18.00m Sand	596m	East
10064364	0.00m-18.00m	607m	West
10104884	0.00m-10.66m Sand 10.66m-11.88m Sand White Peat Traces 11.88m-14.93m Sand Peaty Dirty 14.93m-17.06m Sand Peaty 17.06m-17.37m Peat 17.37m-19.20m Sand Peaty Dirty 19.20m-19.81m Peat 19.81m-20.42m Peat Sandy Some Clay 20.42m-21.03m Sand Clean Water Supply 21.03m-21.94m Sand Very Dirty Peaty 21.94m-22.86m Sand Peat Traces Water Supply 22.86m-24.38m Sand Clayey 24.38m-29.56m Sand 29.56m-31.69m Sand Slightly Clayey 31.69m-32.91m Sand White 32.91m-37.79m Sand White Clay Traces Water Supply 37.79m-39.92m Sandstone Decomposed Medium	619m	South
10141275	0.00m-4.57m Sand 4.57m-9.14m Sand Wet 9.14m-12.50m Sand Water Supply 12.50m-13.11m Sand Clay Bands Water Supply 13.11m-17.98m Sand Water Supply 17.98m-21.03m Sand Clay Bands Water Supply 21.03m-22.56m Sand Yellow Water Supply 22.56m-34.29m Sand Water Supply	620m	East
10060724	0.00m-2.00m TOPSOIL 2.00m-16.00m SAND 16.00m-17.00m PEAT AND COAL 17.00m-30.00m SAND	631m	North

NGIS Bore ID	Drillers Log	Distance	Direction
10000701	0.00m-0.20m Sand Black Peat 0.20m-7.20m Sand Yellow Water Supply 7.20m-7.50m Clay Yellow Sandy Water Supply 7.50m-8.20m Peat Sandy Water Supply 8.20m-12.60m Peat Water Supply 12.60m-18.10m Sand Peat Water Supply 18.10m-18.40m Sand Dirty Silty Water Supply 18.40m-19.00m Peat Water Supply 19.00m-19.20m Sand Yellow Water Supply 19.20m-20.30m Sand Water Supply 20.30m-23.34m Clay Yellow Water Supply 20.30m-23.34m Sand Small Bands 23.34m-23.50m Sandstone	632m	North West
10058577	0.00m-0.30m Sand Grey 0.30m-0.60m Sand White 0.60m-6.09m Sand Yellow 6.09m-7.92m Sand Yellow Water Supply 7.92m-7.95m Peat 7.95m-10.05m Sand Water Supply 10.05m-13.71m Sand Yellow White Water Supply 13.71m-15.84m Sand Water Supply 15.84m-17.06m Sand White Water Supply 17.06m-17.37m Clay Grey 17.37m-18.28m Sand Water Supply 18.28m-18.59m Clay Grey 18.59m-25.29m Sand Yellow 18.59m-25.29m Clay Small Bands 25.29m-36.88m Sand Yellow Water Supply 36.88m-37.49m Sand Light Brown Water Supply 37.49m-38.55m Sand Dark Brown Clay Seams 38.55m-38.58m Sandstone	632m	East
10094857	0.00m-18.00m Sand	632m	North East
10090634	0.00m-12.00m SAND	654m	South East
10059472	0.00m-18.00m sand	660m	South East
10018619	0.00m-19.00m sand	664m	East
10060348	0.00m-5.00m LT. BROWN MEDIUM GR. SAND 5.00m-10.00m WHITE YELLOW MEDIUM GR. SAND 10.00m-12.00m DARK BROWN SAND / LIGNITE 12.00m-14.00m LIGNITE AND SAND MED. GR. 14.00m-18.00m SAND WITH LIGNITE 18.00m-27.00m DARK SAND WITH LIGNITE 27.00m-41.00m LT. BROWN SAND,MINOR SILT	667m	South
10099172	0.00m-9.50m sand	667m	South East
10061666	0.00m-12.00m	676m	South West
10125145	0.00m-16.00m SAND	677m	North East
10124547	0.00m-8.00m	684m	South West
10009819	0.00m-1.00m Fill 0.00m-1.00m Sandstone Sand 1.00m-8.00m Sand White 8.00m-17.00m Sand Peaty Water Supply 17.00m-19.00m Peat Water Supply 19.00m-25.00m Sand Water Supply 25.00m-31.00m Sand Grey Water Supply	685m	South
10136288	0.00m-8.00m	690m	West
10005969	0.00m-0.91m Sand Grey 0.91m-6.70m Sand White Water Supply	703m	North East
10126522	0.00m-9.50m sand	703m	North East
10034361	0.00m-9.50m sand	714m	South East
10026205	0.00m-14.00m sand	715m	North East
10020171	0.00m-18.00m Sand	725m	East
10036260	0.00m-17.08m UNCONSOLIDATED ALL SAND	728m	South West

NGIS Bore ID	Drillers Log	Distance	Direction
10094276	0.00m-4.50m SAND LIGHT BROWN 4.50m-9.00m SAND YELLOW 9.00m-17.00m SAND LIGHT BROWN 17.00m-21.50m SAND GREY 21.50m-26.00m SAND LIGHT BROWN 26.00m-30.00m SAND WHITE	729m	North East
10133379	0.00m-15.00m sand	731m	South
10087096	0.00m-16.00m sand	735m	North East
10144969	0.00m-2.43m Sand 2.43m-2.74m Clay Sand 2.74m-3.20m Sand Hard Cemented 3.20m-11.27m Sand 11.27m-14.02m Sand Clayey 14.02m-14.32m Sand Water Supply 14.32m-15.24m Sand White Water Supply 15.24m-28.95m Sand Water Supply 28.95m-28.97m Sandstone	746m	North East
10059367	0.00m-16.00m sand	748m	South East
10140520	0.00m-0.91m Sand Hard Cemented 0.91m-9.14m Sand 9.14m-11.27m Sand Grey 11.27m-13.71m Sand Yellow 13.71m-15.24m Sand White 15.24m-16.15m Sand Clayey Peaty 16.15m-19.20m Sand Grey 19.20m-19.50m Sand Clayey 19.50m-25.60m Sand 25.60m-35.66m Sand White 35.66m-36.27m Sand 35.66m-36.27m Clay Traces 36.27m-36.28m Clay	748m	East
10135165	0.00m-10.00m SAND	750m	East
10057653	0.00m-10.00m sand	754m	East
10030049	0.00m-0.91m Sand Black 0.91m-4.87m Sand White Water Supply	756m	North East
10058357	0.00m-9.15m UNCONSOLIDATED - ALL SAND	770m	West
10015482	0.00m-18.00m sand	777m	East
10125290	0.00m-16.00m SAND	777m	East
10050567	0.00m-9.50m sand	786m	South East
10021067	0.00m-12.00m SAND	788m	South East
10123108	0.00m-10.00m sand	789m	South East
10030972	0.00m-9.50m sand	790m	South East
10126179	0.00m-12.29m sand	797m	North East
10092276	0.00m-9.50m sand	803m	South East
10004542	0.00m-3.04m Sand 3.04m-4.26m Sand Grey 4.26m-8.53m Sand Clean 8.53m-10.36m Sand White 10.36m-10.45m Clay 10.45m-12.49m Sand Clean 12.49m-13.10m Sandstone	805m	South East
10008981	0.00m-0.61m Made Ground 0.61m-3.05m Sand Yellow 3.05m-3.96m Peat 3.96m-5.79m Sand Grey Water Supply 5.79m-15.85m Sand White Water Supply 15.85m-18.59m Sand Water Supply 18.59m-18.75m Wood 18.75m-20.73m Sand Water Supply 20.73m-24.38m Sandstone Water Supply	805m	North

NGIS Bore ID	Drillers Log	Distance	Direction
10142353	0.00m-0.91m Sand Made Ground 0.91m-1.82m Sand Hard Cemented 1.82m-3.65m Sand White 3.65m-5.48m Sand White Some Clay 5.48m-8.22m Sand 8.22m-10.05m Sand Slightly Peaty Water Supply 10.05m-12.19m Sand Yellow Some Clay Water Supply 12.19m-27.43m Sand White Water Supply 27.43m-32.00m Sand Water Supply 32.00m-32.61m Sandstone Decomposed	820m	East
10126246	0.00m-9.50m Sand	822m	South
10017249	0.00m-0.30m TOPSOIL 0.30m-2.30m GREY SAND 2.30m-3.40m BROWN SAND 3.40m-6.10m YELLOW SAND 6.10m-13.20m BROWN SILTY SAND 13.20m-24.50m WHITE SAND 24.50m-29.20m GREY SAND 29.20m-30.00m SILTY GREY SAND 30.00m-31.50m YELLOW SILTY SAND 31.50m-32.00m YELLOW SANDY CLAY	823m	East
10122925	0.00m-9.00m SAND	825m	South East
10096041	0.00m-9.50m sand	837m	South
10054018	0.00m-15.25m sand, unconsolidated	843m	North East
10055327	0.00m-1.50m SANDSTONE FILL 1.50m-9.00m WHITE SAND 9.00m-11.50m BROWN SAND WITH SEAMS OF PEAT 11.50m-15.50m WHITE SAND 15.50m-21.50m PEATY BROWN SAND 21.50m-31.00m BROWN SAND 31.00m-37.00m WHITE SAND	844m	South West
10145470	0.00m-0.61m Topsoil 0.61m-3.05m Sand 3.05m-3.35m Peat 3.35m-15.24m Clay Water Supply 15.24m-16.76m Sand Peaty Water Supply 16.76m-18.29m Sand Grey Dirty Water Supply 18.29m-20.12m Sand Grey Water Supply 20.12m-24.99m Sand Water Supply 24.99m-25.30m Sand Clay Water Supply 25.30m-34.75m Sand White Water Supply 34.75m-35.05m Sandstone 35.05m-36.58m Clay White	844m	South
10116050	0.00m-0.50m (Unknown) 0.50m-12.00m (Unknown)	871m	East
10146903	0.00m-1.52m Sand 1.52m-2.43m Sand Hard Cemented 2.43m-6.70m Sand 6.70m-7.62m Sand Slightly Peaty 7.62m-14.63m Sand Water Supply 14.63m-17.06m Sand White Water Supply 17.06m-18.28m Clay Sand 18.28m-23.46m Sand Yellow Water Supply 23.46m-32.91m Sand White Water Supply 32.91m-34.13m Sand Yellow Water Supply 34.13m-34.74m Sand 34.13m-34.74m Clay Yellow 34.74m-36.57m Sand Yellow Water Supply 36.57m-37.79m Sand Yellow Clayey	873m	East
10027993	0.00m-12.00m SAND	875m	South East
10024560	0.00m-0.91m Sand Black 0.91m-8.83m Sand White Water Supply	886m	South East
10062035	0.00m-10.00m SAND	886m	East
10033446	0.00m-9.50m Sand	891m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10019184	0.00m-7.62m Sand 7.62m-9.14m Sand Dark Brown Water Supply 9.14m-10.97m Sand Hard Cemented 10.97m-11.58m Sand Water Supply 11.58m-12.19m Sand White Water Supply 12.19m-15.24m Sand Water Supply 15.24m-16.45m Sand Hard Cemented 15.24m-16.45m Peat 16.45m-23.16m Sand Water Supply 23.16m-23.77m Peat Sand 23.77m-24.38m Sand 24.38m-25.90m Peat 25.90m-27.43m Clay 27.43m-28.34m Peat 28.34m-31.39m Sand Water Supply 31.39m-35.35m Sand Grey Water Supply 35.35m-37.18m Clay	895m	South West
10098953	0.00m-16.47m Sand, unconsolidated	901m	North East
10028508	0.00m-3.04m Made Ground 3.04m-4.57m Sand 4.57m-6.09m Sand Clean 6.09m-9.14m Sand 9.14m-9.75m Peat 9.75m-10.66m Sand Peaty 10.66m-12.19m Sand 12.19m-15.24m Sand Clean 15.24m-15.84m Sand 15.84m-16.15m Peat 16.15m-16.76m Clay Sand 16.76m-19.81m Sand Dark Brown 19.81m-28.65m Sand Water Supply 28.65m-35.96m Sand White Water Supply 35.96m-36.27m Peat Wood 36.27m-38.40m Sand Yellow Grey Water Supply 38.40m-38.70m Clay Grey	904m	South
10061723	0.00m-2.13m Sand 2.13m-2.28m Sand Dark 2.28m-6.70m Sand Water Supply	907m	East
10102563	0.00m-10.00m Sand	907m	North East
10018844	0.00m-16.47m	911m	East
10134527	0.00m-9.50m Sand	911m	South East
10096033	0.00m-0.50m Loam Black Sandy 0.50m-1.20m Sand Yellow 1.20m-9.00m Sand Grey 9.00m-10.20m Sand Yellow 10.20m-16.00m Sand Peaty Water Supply 16.00m-31.00m Sand Yellow Water Supply 31.00m-36.90m Sand White Water Supply 36.90m-38.10m Sand Yellow Water Supply 38.10m-40.30m Sand White Water Supply 40.30m-40.40m Peat Sand Water Supply 40.40m-41.50m Peat Water Supply	913m	South
10061118	0.00m-0.91m Made Ground 0.91m-1.29m Sand Hard Cemented 1.29m-2.13m Sand Yellow 2.13m-8.53m Sand Grey 8.53m-8.76m Peat 8.76m-14.02m Sand Peaty Water Supply 14.02m-14.70m Peat 14.70m-16.45m Sand Peaty Water Supply 16.45m-24.38m Sand Slightly Clay Water Supply 24.38m-36.57m Sand Grey Water Supply 36.57m-39.62m Sand Grey Slightly Clay Water Supply 39.62m-40.84m Sand Orange Grey Sandstone Decomposed Water Supply 40.84m-40.99m Peat Clay	923m	South West
10117466	0.00m-10.00m Sand	945m	North East
10124635	0.00m-16.00m sand	948m	South
10123910	0.00m-9.00m sand	957m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10060365	0.00m-1.52m Sand White 1.52m-5.18m Sand 5.18m-6.40m Sand Peaty Very Dirty 6.40m-7.31m Sand Peaty 7.31m-8.83m Sand Clean 8.83m-10.66m Peat Hard 10.66m-10.97m Sand Peaty 10.97m-13.71m Sand Wet 13.71m-16.15m Sand Clean 16.15m-16.76m Sand Peaty Water Supply 16.76m-17.37m Peat Hard 17.37m-17.67m Peat Sandy Water Supply 17.67m-18.28m Sand Peaty Very Dirty 18.28m-18.89m Sand Peaty 18.89m-22.86m Sand 22.86m-30.48m Sand Slightly Clayey 30.48m-31.39m Sand 31.39m-31.54m Sand Slightly Peaty 31.54m-33.52m Sand White Water Supply 33.52m-36.27m Sand White 36.27m-36.88m Sand White 36.27m-36.88m Clay Yellow 36.88m-38.70m Sand White	964m	South
10125380	0.00m-9.50m Sand	981m	East
10064183	0.00m-10.00m Sand	985m	South East
10111551	0.00m-3.65m Soil Clay 3.65m-4.87m Sand Yellow Water Supply	990m	North
10104401	0.00m-0.30m Loam Sandy 0.30m-0.91m Sand 0.91m-1.82m Sand Grey 1.82m-2.13m Sand Hard Cemented 2.13m-3.04m Sand Dark Brown 3.04m-7.62m Sand 7.62m-8.53m Sand Peaty 8.53m-11.27m Sand 11.27m-12.19m Clay Peaty 12.19m-13.71m Sand Dirty 13.71m-14.02m Clay Grey 14.02m-14.63m Sand Clean 14.63m-15.24m Peat 15.24m-16.76m Sand Dirty Water Supply 16.76m-22.55m Sand Water Supply 22.55m-24.07m Peat Water Supply 24.07m-24.99m Sand Dirty Water Supply 24.99m-27.12m Clay Grey Water Supply 27.12m-30.41m Sand Grey Dirty Water Supply 30.41m-33.68m Sand Grey Water Supply 33.68m-33.83m Peat Water Supply	996m	South West
10132066	0.00m-5.48m Sand White 5.48m-8.53m Sand 8.53m-8.83m Peat 8.83m-14.63m Sand 14.63m-17.06m Sand Dirty 17.06m-17.37m Peat 17.37m-19.81m Sand Peaty 19.81m-21.94m Peat Wood Decomposed 21.94m-28.65m Sand Peaty Water Supply 28.65m-36.27m Sand White Water Supply 36.27m-36.42m Peat 36.42m-39.31m Sand White Water Supply 39.31m-40.23m Clay Grey	1008m	South West
10055014	0.00m-10.00m SAND	1022m	South
10057885	0.00m-9.50m sand	1022m	South East
10061543	0.00m-10.00m SAND	1030m	South
10096291	0.00m-9.00m SAND	1044m	South
10123520	0.00m-9.00m	1048m	South
10053295	0.00m-16.00m Sand	1051m	North East
10056990	0.00m-10.00m SAND	1058m	South East

NGIS Bore ID	Drillers Log	Distance	Direction
10099867	0.00m-0.60m Made Ground 0.60m-3.04m Sand Yellow 3.04m-5.18m Sand 5.18m-7.62m Sand Slightly Peaty 7.62m-7.92m Peat 7.92m-10.66m Sand Very Dirty Peaty 10.66m-14.63m Sand Grey 14.63m-15.24m Sand Yellow 15.24m-18.59m Sand Yellow Water Supply 18.59m-23.77m Sand Clayey Peaty Water Supply 23.77m-25.90m Sand Grey Water Supply 25.90m-29.26m Sand White Water Supply 29.26m-30.17m Clay Water Supply 30.17m-30.20m Clay	1062m	South
10108817	0.00m-1.82m Sand Grey 1.82m-2.43m Sand Hard Cemented 2.43m-4.57m Sand Yellow 4.57m-6.09m Sand White 6.09m-8.53m Sand White Slightly Clayey 8.53m-11.27m Sand Slightly Peaty 11.27m-14.47m Sand Very Dirty Peaty 14.47m-15.24m Sand Yellow 15.24m-16.45m Sand Slightly Clayey 16.45m-18.28m Sand Yellow Clean 18.28m-19.20m Sand Slightly Clayey 19.20m-22.55m Sand 22.55m-25.29m Sand Peaty 25.29m-25.90m Sand Clean 25.90m-30.17m Sand White 30.17m-31.39m Sand White Slightly Clayey 31.39m-35.05m Sand White 35.05m-35.08m Clay	1065m	South
10015920	0.00m-0.30m Sand Dark Grey 0.30m-0.99m Sand White 0.99m-1.21m Sand Hard Cemented 1.21m-2.43m Clay Sandy 2.43m-3.65m Sand 3.65m-3.96m Sand Some Hard Cemented 3.96m-6.09m Sand 6.09m-7.01m Clay Sandy 7.01m-7.62m Sand Peaty 7.62m-10.66m Sand Coloured 10.66m-12.19m Peat Wood Water Supply 12.19m-14.02m Sand Dark Brown Water Supply 14.02m-14.63m Clay Peaty 14.63m-16.61m Sand Dark Brown Water Supply 16.61m-16.76m Clay Peaty 16.76m-18.89m Sand Dark Brown Water Supply 18.89m-19.20m Sand Dirty 19.20m-20.42m Peat Wood 20.42m-22.55m Sand Dirty Water Supply 22.55m-25.29m Clay Sandy Water Supply 25.29m-25.60m Wood Clay Water Supply 25.60m-27.12m Peat 27.12m-32.91m Sand Water Supply 32.91m-33.22m Sand Grey Dirty	1070m	South West
10147617	0.00m-0.91m Sand Dry 0.91m-1.21m Sand Hard Cemented 1.21m-6.09m Sand 6.09m-10.66m Sand Peaty 10.66m-14.02m Sand 14.02m-16.76m Sand Peaty 16.76m-19.20m Sand 19.20m-19.81m Sand Peat 19.81m-21.33m Peat Wood 21.33m-22.55m Sand Peaty 22.55m-24.38m Sand 22.55m-24.38m Clay Peaty 24.38m-24.68m Peat 24.68m-28.04m Sand Dirty Water Supply 28.04m-32.91m Sand Grey Water Supply 32.91m-34.13m Clay Peaty	1070m	South West
10062701	0.00m-9.50m sand	1076m	East

NGIS Bore ID	Drillers Log	Distance	Direction
10116102	0.00m-2.44m Topsoil 2.44m-4.88m Sand Clean 4.88m-6.40m Sand Peaty 6.40m-10.67m Sand White Clean 10.67m-14.63m Sand Small Gravel 14.63m-18.59m Sand Grey Water Supply 18.59m-20.42m Peat Water Supply 20.42m-20.60m Sand Peaty Water Supply 20.60m-21.09m Sand Water Supply 21.09m-29.02m Sand White Water Supply 29.02m-30.00m Clay Sand Water Supply	1089m	South
10123257	0.00m-10.00m	1091m	North East
10106379	0.00m-9.50m sand	1094m	South East
10062699	0.00m-0.91m Sand 0.91m-1.09m Sand Hard Cemented 1.09m-5.18m Sand	1102m	South East
10093972	0.00m-10.00m SAND	1102m	South East
10140906	0.00m-1.52m Sand Grey 1.52m-4.57m Sand Cream 4.57m-4.72m Sand Hard Cemented 4.72m-7.62m Clay Peaty 7.62m-10.36m Sand Water Supply 10.36m-10.97m Clay Peaty 10.97m-11.58m Sand Peaty 11.58m-12.49m Sand Dirty 12.49m-13.71m Peat 13.71m-14.32m Sand Peaty 14.32m-17.06m Sand Dirty Water Supply 17.06m-18.89m Clay Peaty 18.89m-19.20m Sand Peaty 19.20m-19.81m Sand White Wood 19.81m-24.38m Sand White Water Supply 24.38m-26.51m Sand Water Supply 26.51m-27.43m Sand White Water Supply 27.43m-27.58m Clay Peaty 27.58m-32.76m Sand White Water Supply 32.76m-33.07m Clay Peaty 33.07m-33.52m Sand Water Supply 33.52m-38.40m Sand White Water Supply 38.40m-38.86m Clay Peaty Wood	1114m	South West
10101773	0.00m-0.91m Sand Made Ground 0.91m-2.74m Sand 2.74m-4.87m Sand Yellow 4.87m-7.62m Sand Peaty 7.62m-11.27m Sand Yellow Clean 11.27m-12.80m Peat Sandy Water Supply 12.80m-13.71m Sand Peaty Water Supply 13.71m-15.24m Sand Clean Water Supply 15.24m-16.76m Sand Peaty Water Supply 16.76m-21.94m Sand Clean Water Supply 21.94m-22.86m Sand Slightly Peaty Water Supply 22.86m-32.00m Sand Clean Water Supply 32.00m-32.01m Sand Slightly Clayey	1121m	South
10063575	0.00m-0.91m Sand 0.91m-5.18m Sand Hard Cemented 0.91m-5.18m Shale	1123m	South East
10144174	0.00m-0.91m Made Ground 0.91m-3.65m Sand 3.65m-3.81m Sand Hard Cemented 3.81m-7.92m Sand 7.92m-11.88m Sand Peaty Coarse 11.88m-12.19m Peat 12.19m-14.93m Sand Grey 14.93m-15.84m Peat 15.84m-21.03m Sand Peaty 21.03m-22.86m Peat 22.86m-23.77m Peat Black Sand Fossils:wood Water Supply 23.77m-25.75m Clay Peaty Fossils:wood 25.75m-27.73m Sand Grey Dirty Clay Seams Water Supply 27.73m-29.26m Peat 29.26m-30.48m Clay Grey Peaty	1123m	South West
10029377	0.00m-9.50m Sand	1124m	West
10117187	0.00m-10.98m Sand, unconsolidated	1124m	South East

NGIS Bore ID	Drillers Log	Distance	Direction
10118509	0.00m-0.30m TOPSOIL,BROWN SAND,BACKFILL 0.30m-2.80m GREY SAND MG 2.80m-6.20m LT BROWN SAND MG 6.20m-6.60m SILTY YELLOW SAND WITH CLAY 6.60m-7.00m SANDSTONE	1128m	South East
10031231	0.00m-9.50m Sand	1137m	North East
10099584	0.00m-13.42m sand, decomposed	1150m	South East
10024836	0.00m-7.63m Unconsolidated Sands	1155m	South East
10125840	0.00m-7.63m Unconsolidated Sand	1155m	South East
10053987	0.00m-4.87m Sand	1166m	North East
10020722	0.00m-0.05m BITUMEN 0.05m-0.60m FILL,SAND,GRAVEL , BRICK 0.60m-2.30m SAND DARK GREY FINE 2.30m-5.00m LIGHT GREY YELLOW SAND 5.00m-9.10m YELLOW WHITE SAND 9.10m-11.80m DARK GREY FINE SAND 11.80m-13.60m DENSE FINE SAND 13.60m-14.00m COFFEY ROCK 14.00m-16.30m FINE SAND DARK GREY	1178m	South West
10099360	0.00m-10.68m Sand, unconsolidated	1184m	South East
10103796	0.00m-10.06m sand, unconsolidated	1191m	South East
10132849	0.00m-11.89m Sand White 11.89m-14.02m Sand 14.02m-23.77m Sand Water Supply 23.77m-26.21m Peat 26.21m-29.87m Clay 29.87m-31.39m Sand Peaty 29.87m-31.39m Clay 31.39m-33.22m Sand Grey Clay 33.22m-33.24m Clay	1194m	South West
10053766	0.00m-2.00m SAND SILT WITH WOOD FRAGMENTS, BOULDERS 2.00m-12.00m LAND AND HYDRAULIC FILL 12.00m-16.00m SAND WITH MINOR PEAT BED 16.00m-18.00m PEAT 18.00m-23.00m SAND 23.00m-24.00m WEATHERED SANDSTONE THEN SHEET SANDSTONE BELOW 24 METRES	1195m	South
10056687	0.00m-24.40m BACKFILL AND SAND WITH PEAT INCLUSIONS. BEDROCK FROM 24.4 METRES APPROX.	1195m	South
10062334	0.00m-8.23m UNCOSOLIDATED ALL SANDS	1195m	South
10087507	0.00m-9.00m SAND	1195m	South
10090042	0.00m-7.63m SAND	1195m	South
10099029	0.00m-12.00m SAND	1195m	South
10115578	0.00m-10.00m SAND	1195m	South
10120900	0.00m-10.00m SAND	1195m	South
10123944	0.00m-9.00m SAND	1195m	South
10136857	0.00m-10.00m SAND	1195m	South
10003411	0.00m-2.00m SAND,MED GRAINED WHITE 2.00m-5.00m SAND,MED GRAINED COFFEE BROWN 5.00m-6.00m SAND MED GRAINED,YELLOW 6.00m-12.50m SAND,FINE GRAINED,GREY WHITE 12.50m-15.50m SAND,SLIGHTLY SILTY 15.50m-17.00m PEATY SAND 17.00m-28.00m SAND,SLIGHTLY SILTY 28.00m-29.00m BED ROCK	1196m	South East

NGIS Bore ID	Drillers Log	Distance	Direction
10011605	0.00m-0.30m Ash 0.30m-4.57m Sand Dry 4.57m-8.22m Sand 8.22m-10.66m Sand Wet Peaty 10.66m-12.19m Sand Dark Brown Water Supply 12.19m-15.24m Sand Peaty 15.24m-17.37m Sand Water Supply 17.37m-19.75m Sand Dirty Water Supply 19.75m-20.11m Clay Peaty 20.11m-21.33m Sand Dark Brown Water Supply 21.33m-23.01m Sand Dirty Water Supply 23.01m-23.02m Clay Peaty	1198m	South West
10018092	0.00m-0.60m Sand Grey 0.60m-1.82m Sand White 1.82m-2.43m Loam 2.43m-6.40m Sand White Water Supply	1209m	East
10024171	0.00m-0.05m BITUMEN 0.05m-0.60m FILL,SAND, GRAVEL 0.60m-2.30m DARK GREY FINE SAND 2.30m-5.00m LIGHT GREY YELLOW SAND 5.00m-9.10m YELLOW WHITE SAND 9.10m-11.80m DARK GREY FINE SAND 11.80m-13.60m DENSE FINE SAND 13.60m-14.00m COFFEY ROCK 14.00m-16.30m FINE SAND DARK GREY	1212m	South West
10022064	0.00m-11.58m Sand Peaty Clay 11.58m-12.19m Wood Peaty 12.19m-14.02m Sand Peaty Water Supply 14.02m-16.15m Sand Pete Water Supply 16.15m-19.20m Wood Peat Solid 19.20m-21.33m Sand Dirty Water Supply 21.33m-21.64m Peat 21.64m-22.86m Sand Clay Coarse Water Supply 22.86m-24.08m Sand Grey Pete Water Supply 24.08m-29.44m Sand Grey Water Supply 29.44m-29.45m Clay Grey Bands	1220m	South West
10134631	0.00m-9.00m SAND	1223m	East
10087439	0.00m-7.00m SAND	1240m	South
10063307	0.00m-1.00m FILL 1.00m-8.50m SAND	1241m	North
10122490	0.00m-0.20m CONCRETE 0.20m-0.60m GRAVELLY SILTY SAND,LOOSE,DRY 0.60m-9.00m SAND,MEDIUM DENSE/YELLOW,ORANGE,GRADES TO CREAM	1241m	North
10071436	0.00m-0.20m CONCRETE 0.20m-1.00m FILL 1.00m-8.50m SAND	1243m	North
10133569	0.00m-0.80m GRAVELLY SILTY SAND,FILL, LOOSE,DRY MOIST,DARK,BROWN,GREY 0.80m-9.00m SAND,MEDIUM DENSE,V/DARK BROWN/BLACK BECOMES SATURATED	1243m	North
10123712	0.00m-10.00m ALL SAND	1247m	South
10036870	0.00m-0.05m BITUMEN 0.05m-0.60m FILL SAND GRAVEL 0.60m-2.30m DARK GREY FINE SAND 2.30m-5.00m LIGHT GREY YELLOW SAND 5.00m-9.10m YELLOW WHITE SAND 9.10m-11.80m DARK GREY FINE SAND 11.80m-13.60m DENSE FINE SAND 13.60m-14.00m COFFEY ROCK 14.00m-16.30m FINE SAND DARK GREY	1248m	South West
10049751	0.00m-6.50m SAND	1248m	South East
10071668	0.00m-0.20m CONCRETE 0.20m-1.70m FILL 1.70m-8.70m SAND	1248m	North
10096379	0.00m-5.18m Sand Water Supply	1248m	North
10117587	0.00m-1.00m GRAVELLY SILTY SAND,LOOSE,DRY,DARK GREY,PIECES OF RUBBLE 1.00m-9.00m SAND,MOIST,L/GREY,DARK BROWN,D/ORANGE,CREAM,SATURATED	1249m	North
10121399	0.00m-0.30m SILTY SAND,DRY,BROWN,GREY,MINOR GLASS 0.30m-9.00m SAND,DRY,L/GREY,BROWN/COPPER,MOIST,BECOMES SATURATED	1250m	North
10122707	0.00m-15.00m sand	1260m	South East
10118966	0.00m-0.10m CONCRETE 0.10m-0.30m SILTY SAND,LOOSE,DRY,BROWN/GREY,SANDSTONE BRICK PIECES 0.30m-9.00m SAND,LOOSE,DRY,MOIST,ORANGE,BECOMES SATURATED	1262m	North

NGIS Bore ID	Drillers Log	Distance	Direction
10138973	0.00m-0.20m Loam Sandy 0.20m-1.00m Sand Grey 1.00m-5.00m Sand Grey Peat 5.00m-7.50m Sand Yellow 7.50m-8.50m Sand Yellow Peat 8.50m-16.50m Sand White Water Supply 16.50m-17.00m Clay White Sandy 17.00m-23.00m Sand White Water Supply 23.00m-24.00m Sand Grey Water Supply 24.00m-25.00m Shale	1262m	South East
10032719	0.00m-7.01m sand, unconsolidated	1274m	North
10092014	0.00m-7.00m SANDS	1289m	South West
10146462	0.00m-6.09m Sand Grey	1294m	East
10056762	0.00m-8.00m	1301m	North East
10115436	0.00m-6.09m Sand Yellow Water Supply	1305m	North West
10125180	0.00m-5.49m UNCONSOLIDATED SAND	1305m	North West
10139655	0.00m-0.80m Sand Dirty 0.80m-5.00m Sand Grey 5.00m-13.22m Sand 13.22m-17.00m Sand Peaty Dirty Water Supply 17.00m-17.50m Sand Some Small Gravel 17.50m-25.00m Sand Yellow Water Supply 25.00m-30.00m Sand Water Supply 25.00m-30.00m Clay Grey Some Small Layer 30.00m-31.00m Sand Grey Some Peat 31.00m-35.00m Sand Grey Peaty Water Supply 35.00m-36.50m Sand Grey Stiff Water Supply 36.50m-38.00m Clay Grey Stiff	1306m	South East
10064547	0.00m-14.03m Sand, unconsolidated	1307m	North East
10116332	0.00m-0.91m Sand Grey 0.91m-7.32m Sand Yellow Water Supply	1314m	North West
10120773	0.00m-12.00m UNCONSOLIDATED ALL SANDS	1320m	East
10124443	0.00m-9.76m UNCONSOLIDATED SAND	1325m	West
10142179	0.00m-0.91m Sand Grey 0.91m-6.40m Sand Yellow Water Supply	1328m	North West
10109463	0.00m-1.21m Sand Grey 1.21m-1.37m Sand Hard Cemented 1.37m-3.65m Sand White 3.65m-5.48m Sand Grey 5.48m-8.22m Sand Yellow Water Supply	1332m	South East
10113452	0.00m-0.60m Sand Grey 0.60m-7.62m Sand Yellow Water Supply	1335m	West
10128632	0.00m-1.00m Sand White 1.00m-7.70m Sand 7.70m-12.00m Sand White Water Supply 12.00m-22.00m Sand Water Supply 22.00m-22.80m Clay White Water Supply 22.80m-23.00m Sand Grey Peaty Water Supply 23.00m-29.00m Sand White Water Supply 23.00m-29.00m Clay White Seams 29.00m-32.00m Clay Grey Stiff	1345m	South East
10105128	0.00m-0.60m Sand Grey 0.60m-6.09m Sand White Water Supply	1348m	East
10048594	0.00m-10.00m SAND	1350m	South West
10126342	0.00m-6.10m UNCONSOLIDATED, ALL CLEAN SAND	1350m	North
10068565	0.00m-10.67m unconsolidated - all sand.	1364m	South West
10120601	0.00m-6.70m UNCONSOLIDATED ALL SANDS	1364m	North West
10099071	0.00m-5.18m Unconsolidated - all sand.	1367m	North West
10061333	0.00m-6.00m SAND	1370m	South West

NGIS Bore ID	Drillers Log	Distance	Direction
10141396	0.00m-0.60m Sand Grey 0.60m-1.52m Sand Hard Cemented 1.52m-5.48m Sand Packed 5.48m-9.44m Sand Yellow Wet 9.44m-9.60m Clay Grey 9.60m-9.90m Peat 9.90m-10.36m Sand 10.36m-12.19m Sand Grey 12.19m-13.41m Sand Yellow 13.41m-13.71m Peat Water Supply 13.71m-16.76m Sand Hard Cemented Seams 16.76m-19.81m Sand Yellow 19.81m-21.33m Sand Yellow Gravel Water Supply 21.33m-22.25m Clay Seams 22.25m-23.77m Sand Yellow Fine 23.77m-24.38m Sand White 24.38m-24.53m Peat Water Supply 24.53m-24.84m Sand Yellow 24.84m-24.85m Sandstone	1375m	South
10135156	0.00m-7.00m sand	1376m	North West
10052641	0.00m-7.00m SAND	1385m	North West
10101568	0.00m-0.91m Made Ground 0.91m-4.57m Sand 4.57m-7.62m Sand Peaty 7.62m-13.71m Sand Clean 13.71m-14.93m Sand Peaty 14.93m-18.89m Sand 18.89m-19.81m Sand Peaty 19.81m-23.77m Sand 23.77m-28.34m Sand White 28.34m-28.65m Sand Clayey 28.65m-28.95m Clay Peaty 28.95m-29.56m Clay Grey 29.56m-30.78m Sand Grey 30.78m-35.05m Sand White 35.05m-35.08m Clay	1385m	South
10023301	0.00m-1.37m Peat 1.37m-5.18m Sand Peaty 5.18m-14.23m Sand Water Supply 14.23m-21.33m Wood Peat 21.33m-22.86m Sand Peaty Peat 22.86m-24.38m Sand Peaty Wood Water Supply 24.38m-27.12m Sand Water Supply	1386m	South West
10092602	0.00m-5.00m SAND	1397m	North West
10061631	0.00m-10.00m SAND	1400m	South West
10086464	0.00m-7.00m SAND	1406m	North West
10126539	0.00m-7.32m Sand, unconsolidated	1413m	North
10026630	0.00m-5.49m SAND	1414m	West
10101434	0.00m-1.21m Topsoil Grey 1.21m-5.48m Sand Yellow Water Supply	1417m	East
10144523	0.00m-0.91m Made Ground Sand 0.91m-1.37m Sand 1.37m-2.74m Peat 2.74m-6.09m Sand Dirty 6.09m-10.66m Sand Wet 10.66m-13.71m Sand Water Supply 13.71m-15.24m Sand Clay Bands 15.24m-21.64m Sand Water Supply 21.64m-23.16m Sand White Water Supply 23.16m-23.40m Sand White 23.40m-23.46m Clay White Bands 23.46m-26.21m Sand White Water Supply 26.21m-28.83m Sand White Clay Bands	1424m	South
10098954	0.00m-9.50m sand	1426m	East
10144520	0.00m-3.04m Sand Water Supply	1431m	West
10016395	0.00m-5.48m Sand Water Supply	1432m	North West
10099807	0.00m-3.00m Sand White Peaty Water Supply 3.00m-14.00m Sand Light Brown Water Supply 14.00m-14.50m Peat Water Supply 14.50m-20.00m Sand White Peaty Water Supply	1437m	North West

NGIS Bore ID	Drillers Log	Distance	Direction
10041972	0.00m-15.55m sand	1440m	East
10099072	0.00m-6.00m Sand	1444m	North West
10111698	0.00m-5.79m UNCONSOLIDATED ALL SAND	1444m	North
10054656	0.00m-7.50m Sand	1445m	North
10141178	0.00m-8.53m Sand Dry 8.53m-10.97m Sand Wet 10.97m-11.88m Clay Grey Sandy 11.88m-14.63m Clay Sandy Water Supply 14.63m-19.81m Sand Water Supply 19.81m-24.99m Sand White Water Supply 24.99m-29.56m Sand Light Brown Water Supply 29.56m-30.08m Sand Clay Bands	1446m	South
10130346	0.00m-9.00m	1453m	North East
10112720	0.00m-5.79m UNCONSOLIDATED ALL SANDS	1454m	North West
10121961	0.00m-14.64m Sand, unconsolidated	1454m	North West
10115673	0.00m-8.00m sand	1455m	North
10125407	0.00m-7.32m UNCONSOLIDATED. ALL SAND	1455m	North West
10018277	0.00m-5.80m Unconsolidated Sand	1458m	North West
10066634	0.00m-0.30m topsoil 0.30m-5.00m sand,yellow 5.00m-7.00m sand, yellow with some shells	1459m	North
10025610	0.00m-16.16m sand	1461m	North West
10125222	0.00m-6.10m UNCONSOLIDATED ALL SAND	1464m	North
10088324	0.00m-12.00m SAND	1467m	East
10124048	0.00m-4.58m UNCONSOLIDATED ALL SANDS	1467m	North
10135357	0.00m-1.00m Made Ground 1.00m-2.00m Sand Yellow 2.00m-15.00m Sand Grey 15.00m-15.15m Clay Sandy 15.15m-21.00m Sand Yellow Water Supply 21.00m-22.50m Sand Grey Water Supply 22.50m-24.00m Clay Grey 24.00m-24.01m Shale	1467m	South East
10023729	0.00m-15.86m sand	1468m	North West
10093191	0.00m-10.00m sand	1469m	East
10104347	0.00m-4.57m Sand Water Supply	1469m	East
10127521	0.00m-7.32m Unconsolidated - all sand	1470m	West
10089552	0.00m-8.40m UNCONSOLIDATED ALL SANDS	1472m	North West
10056865	0.00m-5.79m Sand Water Supply	1473m	North West
10055957	0.00m-6.00m SAND	1475m	North West
10128903	0.00m-6.50m SAND	1475m	North West
10125276	0.00m-7.32m mud sand	1479m	North
10110133	0.00m-0.30m Sand 0.30m-3.35m Sand White Water Supply 3.35m-3.65m Loam 3.65m-4.26m Sand White	1481m	North East
10050698	0.00m-4.57m Sand Water Supply	1483m	West
10014586	0.00m-4.27m Made Ground 4.27m-5.79m Sand Moist 5.79m-12.95m Sand White Wet Water Supply	1484m	North West
10064468	0.00m-8.00m sand	1484m	North

NGIS Bore ID	Drillers Log	Distance	Direction
10134686	0.00m-16.47m Sand, unconsolidated	1486m	North West
10058362	0.00m-7.00m SAND	1489m	West
10062864	0.00m-6.09m Sand White Water Supply	1489m	North West
10103882	0.00m-4.87m Sand Yellow Water Supply	1490m	North West
10114609	0.00m-7.50m sand	1490m	North
10136363	0.00m-7.50m sand	1493m	North
10058359	0.00m-6.00m sand	1502m	North
10012220	0.00m-0.91m Sand Peaty 0.91m-1.52m Sand Light Brown 1.52m-4.57m Sand Yellow 4.57m-5.63m Sand Peaty 5.63m-8.22m Sand Dark Brown 8.22m-9.14m Clay Dark Grey Sandy 9.14m-9.44m Sand Wood 9.44m-12.19m Sand Dirty 12.19m-12.80m Sand 12.80m-15.54m Sand Dirty 15.54m-16.45m Peat 16.45m-17.06m Sand Peaty 17.06m-18.28m Clay Grey Sandy 18.28m-19.51m Clay Grey Pete 19.51m-27.43m Sand Coarse Water Supply	1503m	South West
10119386	0.00m-14.64m sand	1503m	East
10148466	0.00m-3.35m Sand Water Supply	1505m	West
10098889	0.00m-5.00m	1507m	North West
10119958	0.00m-15.00m sand	1511m	East
10000432	0.00m-1.00m Sand 1.00m-5.00m Sand White Peaty 5.00m-6.00m Peat Water Supply 6.00m-12.60m Sand Water Supply 12.60m-13.00m Peat Water Supply 13.00m-15.20m Sand Peaty Water Supply 15.20m-16.40m Sand Water Supply 16.40m-17.00m Peat Water Supply 17.00m-18.20m Sand Peaty Water Supply 18.20m-21.40m Sand Grey Silty Water Supply 21.40m-29.00m Sand Light Brown Peaty Water Supply 29.00m-31.00m Clay Grey	1523m	South West
10114892	0.00m-0.45m Sand Peaty Dry 0.45m-2.43m Sand White Dry 2.43m-7.01m Sand Clean 7.01m-7.31m Peat 7.31m-7.92m Sand Clean 7.92m-8.22m Sand Peaty Dry 8.22m-10.97m Sand 10.97m-13.71m Sand Wet Water Supply 13.71m-13.86m Clay Bands Water Supply 13.86m-17.67m Sand Water Supply 17.67m-17.98m Clay Peaty Bands 17.98m-23.46m Sand Water Supply 23.46m-23.77m Sand White Water Supply 23.77m-26.21m Sand White 23.77m-26.21m Clay Sandy Bands 26.21m-32.15m Sand White Water Supply 32.15m-32.61m Clay Peaty 32.61m-32.91m Sand Dirty 32.91m-34.38m Clay Dark Grey Stiff	1525m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10122188	0.00m-1.21m Topsoil Black Sand 1.21m-1.82m Sand 1.82m-2.59m Peat 2.59m-5.94m Sand Yellow Clean Water Supply 5.94m-7.01m Sand White Water Supply 7.01m-7.31m Peat 7.31m-9.75m Sand Peaty Water Supply 9.75m-10.05m Peat 10.05m-14.02m Sand Peaty Water Supply 14.02m-14.93m Sand Black Peaty Water Supply 14.93m-17.37m Sand Peaty Water Supply 17.37m-23.16m Sand Clean Water Supply 23.16m-23.56m Sand Peaty Water Supply 23.56m-23.77m Peat Water Supply	1529m	West
10101535	0.00m-1.37m Sand 1.37m-1.52m Sand Grey 1.52m-3.81m Sand Peaty Hard Cemented 3.81m-4.87m Sand Light Brown 4.87m-7.01m Sand Clayey Peaty 7.01m-7.31m Sand Grey Clayey 7.31m-8.22m Sand Grey 8.22m-9.75m Sand Peaty 9.75m-19.20m Sand Light Brown Grey 19.20m-22.55m Sand Light Brown Water Supply 22.55m-31.08m Sand Grey Slightly Peaty Water Supply	1531m	South
10126800	0.00m-9.50m Sand	1531m	East
10119850	0.00m-3.65m Sand Water Supply	1532m	East
10097603	0.00m-10.00m SAND AND CLAY	1535m	South East
10103427	0.00m-1.52m Made Ground 1.52m-3.65m Sand 3.65m-6.70m Sand White 6.70m-7.77m Sand 7.77m-8.38m Peat 8.38m-9.14m Sand Peaty Wet 9.14m-13.71m Sand Dirty Slightly Water Supply 13.71m-15.24m Sand Dirty Water Supply 15.24m-16.76m Sand Water Supply 16.76m-21.94m Sand White Water Supply 21.94m-23.46m Sand White Slightly Water Supply 23.46m-23.77m Peat Black	1535m	West
10126841	0.00m-12.00m Sand, unconsolidated	1540m	East
10094860	0.00m-0.30m TOPSOIL 0.30m-2.20m GREY SAND 2.20m-7.10m YELLOW SAND 7.10m-7.30m WHITE SANDSTONE	1541m	South East
10130614	0.00m-0.50m SOIL 0.50m-12.00m SAND CLEAN	1542m	East
10098769	0.00m-14.00m sand	1543m	North
10135119	0.00m-0.60m CONCRETE,BROWN SAND,ROCK FRAG.	1545m	South West
10129400	0.00m-0.45m FILL, DARK BROWN SAND 0.45m-4.50m NATURAL SAND PAL ORANGE,WHITE,M/G 4.50m-6.30m WATER,SAND SATURATED	1552m	South West
10125279	0.00m-0.40m CONCRETE,FILL SAND,DARK GREY 0.40m-0.75m NATURAL SAND,WHITE PALE GREY 0.75m-1.25m COFFEE ROCK	1554m	South West
10119498	0.00m-0.35m CONCRETE 0.35m-0.80m SAND DARK GREY, M/GREY 0.80m-1.20m SAND MOTTLED WHITES,BRICK FRAG.	1556m	South West
10125072	0.00m-0.45m FILL BLACK TO DARK GREY SAND 0.45m-1.30m SAND GREY	1565m	South West
10129398	0.00m-5.81m sand	1565m	North
10121883	0.10m-0.25m FILL,SAND GREY MOTTLED WHITES,BLACKS 0.25m-0.70m COFFE ROCK PEAT 0.70m-1.10m NATURAL SAND,ORANGE/YELLOW,M/G	1570m	South West
10092767	0.00m-7.01m sand, unconsolidated	1571m	North West
10123339	0.00m-0.45m FILL,DARK GREY TO BLACK SAND 0.45m-0.90m SAND/BROWN/ORANGE 0.90m-2.50m COFFEE ROCK,BROWN/ORANGE,HARD 2.50m-7.30m SAND WHITE,PALE GREY M/G	1571m	South West

NGIS Bore ID	Drillers Log	Distance	Direction
10125869	0.00m-0.35m CONCRETE 0.35m-0.80m SAND ORANGE, M/G 0.80m-1.20m SAND DARK GREY 1.20m-1.60m PEAT COFFEE ROCK 1.60m-3.00m SAND YELLOW/ORANGEY M/G 3.00m-6.20m SAND WHITE/PALE GREY,M/G	1574m	South West
10089528	0.00m-0.10m TOPSOIL 0.10m-0.80m SANDY CLAY 0.80m-0.90m GREY CLAY 0.90m-4.00m RED YELLOW SANDSTONE 4.00m-114.00m WHITE SANDSTONE	1575m	North East
10114046	0.00m-0.91m Sand Humus 0.91m-1.52m Peat Hard 1.52m-3.04m Sand Peat 3.04m-8.53m Sand White Water Supply 8.53m-12.19m Sand Very Peaty Water Supply 12.19m-12.80m Peat Sandy Water Supply 12.80m-13.71m Peat 13.71m-14.63m Peat Sandy Water Supply 14.63m-16.15m Sand Peaty Water Supply 16.15m-16.45m Sand Slightly Peaty Water Supply 16.45m-22.25m Sand White Water Supply 22.25m-23.16m Sand Slightly Peaty Water Supply 23.16m-23.46m Sand Peaty Water Supply 23.46m-24.07m Peat 24.07m-34.13m Clay Stiff 34.13m-35.05m Clay Grey 35.05m-42.67m Clay Slightly Sandy 42.67m-43.28m Sand 43.28m-45.72m Sandstone Soft	1577m	West
10142303	0.00m-2.43m Sand 2.43m-4.57m Sand White 4.57m-11.58m Sand Light Brown Water Supply 11.58m-11.89m Sand Hard Cemented Pete 11.89m-15.24m Quartz Small Sand Water Supply 15.24m-16.15m Peat 16.15m-19.81m Sand White Fine Water Supply 19.81m-21.33m Sand Yellow Water Supply 21.33m-26.51m Sand White Fine Water Supply 26.51m-27.43m Clay Sandy Some Peat 27.43m-28.04m Sand Clay	1582m	South
10117309	0.00m-9.00m sand	1583m	North West
10101952	0.00m-0.30m Made Ground 0.30m-4.57m Sand 4.57m-8.83m Sand White 8.83m-9.75m Sand Peat 9.75m-13.10m Sand Peaty Water Supply 13.10m-14.02m Peat 14.02m-14.63m Sand Peaty Water Supply 14.63m-15.24m Peat 15.24m-16.45m Sand Peaty Water Supply 16.45m-21.64m Sand Clean Water Supply 21.64m-24.99m Sand Slightly Peaty Water Supply 24.99m-25.29m Peat 25.29m-25.31m Clay	1589m	South West
10057236	0.00m-3.65m Sand Water Supply	1592m	East
10057001	0.00m-7.62m Unconsolidated - all sand.	1595m	North West
10123309	0.00m-6.00m SAND	1600m	North West
10117765	0.00m-0.60m Made Ground 0.60m-10.05m Sand 10.05m-13.10m Clay Sandy 13.10m-16.15m Sand Dark Brown 16.15m-21.33m Sand Water Supply 21.33m-21.94m Sand Peat Bands Water Supply 21.94m-27.12m Clay Peaty 27.12m-28.95m Clay Dirty Water Supply 28.95m-30.48m Clay Peaty 30.48m-32.00m Peat Clay 32.00m-33.22m Clay Grey Sandstone	1602m	South West
10119685	0.00m-8.00m SAND	1606m	North
10098183	0.00m-7.50m sand	1609m	North
10064651	0.00m-6.10m sand	1613m	North
10050814	0.00m-7.01m UNCONSOLIDATED ALL SANDS	1617m	North West

NGIS Bore ID	Drillers Log	Distance	Direction
10128581	0.00m-7.00m sand	1620m	North
10099449	0.00m-5.79m SAND, UNCONSOLIDATED	1624m	North
10120156	0.00m-6.00m SAND	1628m	North West
10118859	0.00m-6.10m sand	1630m	North
10122335	0.00m-0.54m Made Ground 0.54m-1.67m Ash 1.67m-4.57m Sand Grey 4.57m-5.79m Sand 5.79m-6.40m Sand Light Grey 6.40m-7.62m Sand Grey Dirty 7.62m-8.83m Sand White Water Supply 8.83m-9.44m Sand Yellow 9.44m-9.84m Sand White 9.84m-10.21m Clay Peaty 10.21m-13.80m Sand Dark Brown Water Supply 13.80m-14.63m Peat 14.63m-18.53m Sand Water Supply 18.53m-19.20m Peat 19.20m-22.25m Sand Water Supply 22.25m-22.55m Sand Grey 22.55m-22.57m Peat	1630m	South West
10114874	0.00m-5.48m Rock Nominal Sand Nominal Water Supply	1634m	East
10128567	0.00m-16.00m sand	1634m	North
10123300	0.00m-14.00m Sand	1637m	North
10123580	0.00m-12.00m SAND	1649m	North
10125800	0.00m-5.18m UNCONSOLIDATED. ALL SAND	1652m	West
10126185	0.00m-9.50m sand	1656m	North
10104449	0.00m-0.76m Loam Sandy 0.76m-1.06m Sand 1.06m-2.13m Sand Peaty 2.13m-2.43m Peat 2.43m-2.59m Sand 2.59m-3.04m Clay Sandy 3.04m-3.65m Clay Grey Soft 3.65m-4.26m Clay Sandy 4.26m-4.87m Sand Gravel Small 4.87m-5.48m Clay Sandy 5.48m-8.83m Sand 8.83m-10.66m Sand Clay 10.66m-14.63m Sand Peaty 14.63m-15.84m Wood Decomposed Peaty 15.84m-27.43m Sand Dirty Water Supply 27.43m-28.04m Peat	1657m	South West
10109265	0.00m-1.21m Soil 1.21m-1.82m Sand Grey 1.82m-5.79m Sand White 5.79m-7.62m Water Supply	1657m	South East
10013103	0.00m-0.91m Made Ground 0.91m-4.57m Sand Dirty 4.57m-9.44m Sand Peaty 9.44m-14.02m Sand Peaty Peat Wood Water Supply 14.02m-17.06m Sand Yellow Peat Water Supply 17.06m-17.67m Peat Wood Water Supply 17.67m-19.50m Sand Peaty Water Supply 19.50m-22.55m Sand Yellow Clean Water Supply 22.55m-26.21m Sand Yellow Peat Water Supply 26.21m-29.56m Sand White Peat Bands Water Supply 29.56m-29.71m Clay Grey	1662m	South West
10119743	0.00m-8.00m SAND	1663m	North

NGIS Bore ID	Drillers Log	Distance	Direction
10017424	0.00m-0.91m Sand White Dirty 0.91m-1.21m Sand Cemented Hard 1.21m-2.43m Sand Cemented Hard 2.43m-9.14m Sand Clean 9.14m-9.75m Sand Cemented Hard Bands 9.75m-11.27m Sand Clean Wet 11.27m-15.54m Sand Clean Water Supply 15.54m-16.00m Peat 16.00m-18.59m Sand Grey Water Supply 18.59m-18.74m Peat Wood 18.74m-19.20m Clay Peaty 19.20m-19.50m Peat Wood 19.50m-21.94m Sand Dirty Water Supply 21.94m-22.55m Peat Wood 22.55m-22.86m Sand White 22.86m-24.38m Sand Dirty 22.86m-24.38m Clay Grey 24.38m-25.60m Peat 24.38m-25.60m Sand Dirty	1664m	North West
10062345	0.00m-9.00m sand	1664m	East
10124748	0.00m-9.00m sand	1667m	North
10123735	0.00m-7.50m sand	1668m	North
10102805	0.00m-4.57m Sand Water Supply	1670m	North
10137025	0.00m-6.09m Sand Water Supply	1672m	North West
10125267	0.00m-17.39m UNCOSOLIDATED ALL SANDS	1679m	North
10055973	0.00m-7.62m Sand	1680m	North
10019635	0.00m-1.61m Sand 1.61m-2.46m Sand Some Hard Cemented 2.46m-7.31m Sand 7.31m-8.22m Peat 8.22m-9.14m Sand Peaty 9.14m-9.75m Sand Clayey 9.75m-10.66m Sand 10.66m-12.19m Peat Wood 12.19m-19.20m Sand Water Supply 19.20m-19.50m Peat 19.50m-21.03m Sand Grey Water Supply 21.03m-23.46m Clay Grey Sandy 23.46m-27.12m Sand Grey Dirty 27.12m-28.34m Peat 28.34m-31.39m Clay Grey 28.34m-31.39m Sand Grey Water Supply	1684m	South West
10092321	0.00m-7.00m SAND	1697m	North West
10137175	0.00m-1.00m Made Ground Sand 1.00m-8.00m Sand Yellow 8.00m-11.00m Sand Grey Water Supply 11.00m-13.00m Clay Grey Sandy 13.00m-14.00m Sandstone Red	1701m	South East
10120257	0.00m-0.76m Soil Black Sandy Made Ground 0.76m-2.43m Sand Light Brown 2.43m-3.65m Sand Grey Dirty 3.65m-11.36m Sand Light Brown Water Supply 11.36m-12.58m Peat 12.58m-15.24m Sand Dark Brown Water Supply 15.24m-26.82m Sand Grey Clean 26.82m-26.97m Peat 26.97m-28.19m Sand Dark Grey 28.19m-28.28m Peat 28.28m-31.85m Sand 31.85m-32.30m Clay Grey Sandy	1709m	South West
10131405	0.00m-4.58m SAND, UNCONSOLIDATED	1728m	South West
10124393	0.00m-0.30m TOPSOIL 0.30m-1.20m WHITE SAND 1.20m-1.40m ROCK COFFEE 1.40m-4.80m YELLOW SAND MG. 4.80m-5.00m YELLOW SILTY SAND	1736m	North East

NGIS Bore ID	Drillers Log	Distance	Direction
10113828	0.00m-3.65m Sand 3.65m-4.57m Sand Dark Brown 4.57m-7.31m Sand Dry 7.31m-7.92m Sand Dark Brown 7.92m-11.27m Sand Clean 11.27m-13.01m Sand Wet 13.01m-13.16m Clay Grey 13.16m-13.41m Sand Water Supply 13.41m-13.56m Clay Grey Stiff Water Supply 13.56m-19.38m Sand Water Supply 19.38m-19.50m Clay Quartz Gravel 19.50m-20.11m Sand 20.11m-26.51m Sand White Water Supply 26.51m-27.43m Sand White Clay Water Supply 27.43m-28.65m Sand Peaty 28.65m-29.87m Clay Peaty 29.87m-30.48m Sand Dirty Coarse 30.48m-30.78m Clay Grey Dirty Sandy Coarse	1740m	South
10067470	0.00m-0.91m Topsoil 0.91m-3.04m Sand Hard Cemented 3.04m-6.70m Clay Sandy 6.70m-7.31m Peat Wood 7.31m-9.14m Sand White Clean Water Supply 9.14m-10.05m Sand Yellow Clean Water Supply 10.05m-14.93m Sand White Clean Water Supply 14.93m-15.24m Sand Yellow Water Supply 15.24m-15.54m Sand Grey Water Supply 15.54m-19.66m Sand Grey Pete Water Supply 19.66m-19.67m Peat Water Supply	1744m	North
10112932	0.00m-2.74m Sand 2.74m-2.89m Peat 2.89m-6.09m Sand Dirty 6.09m-10.66m Sand Dirty 10.66m-11.58m Sand Peaty 11.58m-13.71m Sand Dirty Water Supply 13.71m-14.63m Sand Clean Water Supply 14.63m-15.24m Peat 15.24m-16.76m Sand Dirty Peaty Water Supply 16.76m-18.59m Sand Peaty Water Supply 18.59m-24.38m Sand Clean Water Supply 24.38m-24.99m Wood Peaty 24.99m-26.21m Sand Dirty Water Supply 26.21m-26.82m Peat 26.82m-28.04m Sand Clean Water Supply 28.04m-28.65m Clay Peaty 28.65m-29.87m Sand Water Supply 29.87m-30.93m Sand Dirty Water Supply 30.93m-30.96m Clay Peaty	1749m	South West
10020439	0.00m-1.21m Grey 1.21m-1.82m White 1.82m-2.28m Yellow Water Supply 2.28m-4.87m Sand Cream Cryptocrystalline Water Supply	1754m	South West
10058732	0.00m-6.00m SAND	1754m	South West
10025674	0.00m-6.00m YELLOW SAND 6.00m-9.00m GREY SAND	1756m	North
10020381	0.00m-12.81m Sand, unconsolidated	1765m	North
10052399	0.00m-6.00m sand 6.00m-7.00m rock	1766m	East
10120001	0.00m-10.37m sand, unconsolidated	1769m	North
10113693	0.00m-4.87m Sand 4.87m-8.53m Sand Grey 8.53m-8.83m Peat 8.83m-9.75m Sand Peaty 9.75m-10.66m Sand Dirty Water Supply 10.66m-13.41m Sand Peaty 13.41m-15.24m Sand Dirty Water Supply 15.24m-15.84m Peat Sandy 15.84m-18.59m Sand Light Brown Water Supply 18.59m-21.33m Sand Light Brown Peat 21.33m-21.35m Peat	1771m	West
10056195	0.00m-16.45m Sand Nominal Water Supply 0.00m-16.45m Mud Marine Nominal	1773m	North
10059640	0.00m-1.21m Sand 1.21m-1.52m Sand Hard Cemented 1.52m-7.62m Sand Water Supply	1773m	North
10064195	0.00m-4.87m Sand Water Supply	1776m	West

NGIS Bore ID	Drillers Log	Distance	Direction
10124690	0.00m-5.00m sand, rock	1776m	South East
10051167	0.00m-0.60m Sand Grey 0.60m-7.31m Sand Yellow Water Supply	1786m	West
10133790	0.00m-0.30m TOPSOIL 0.30m-1.50m GREY SAND 1.50m-6.50m YELLOW SAND 6.50m-12.20m BROWN SILTY SAND 12.20m-12.60m BLACK PEAT 12.60m-13.10m BLACK PEATY SAND 13.10m-16.70m BROWN PEATY SAND 16.70m-16.90m BLACK PEAT 16.90m-18.40m BROWN SAND 18.40m-18.80m BLACK PEAT 18.80m-21.30m BROWN SAND 21.30m-21.50m BLACK PEAT	1786m	West
10052775	0.00m-12.00m SAND	1787m	North West
10010351	0.00m-2.00m SAND,FINE GRAINED,WHITE 2.00m-6.00m SAND,MED GRAINED,YELLOW BROWN 6.00m-7.00m SILTY SAND 7.00m-13.00m SAND,MED TO FINE GRAINED 13.00m-19.00m SAND,VERY FINE GRAINED 19.00m-20.50m PEAT,FIRM 20.50m-24.00m PEAT FIRM,BLACK 24.00m-25.00m SAND,WHITE 25.00m-32.00m PEATY SAND 32.00m-34.00m CLAYEY SAND,FINE GRAINED 34.00m-35.00m SAND,MED GRAINED 35.00m-41.00m SILTY SAND,GREY WITH SILT 41.00m-44.00m SANDY CLAY,FINE TO MED GRAINED 44.00m-44.50m SANDY CLAY	1793m	North
10046291	0.00m-13.42m Sand, unconsolidated	1793m	North
10079441	0.00m-11.28m All Clear Sand (unconsolidated)	1798m	East
10096660	0.00m-0.50m TOPSOIL 0.50m-10.70m SAND COLOURED 10.70m-17.00m SOFT SANDSTONE 17.00m-150.00m HARD SANDSTONE	1798m	North East
10144860	0.00m-4.87m Sand White 4.87m-5.79m Sand 5.79m-7.31m Sand Clayey 7.31m-10.97m Sand Coarse Water Supply 10.97m-12.19m Sand Coarse 10.97m-12.19m Peat Bands Water Supply 12.19m-15.24m Sand Yellow Clayey Coarse Water Supply 15.24m-15.84m Sand White Water Supply 15.84m-17.06m Sand Grey Yellow 15.84m-17.06m Clay Bands Water Supply 17.06m-17.98m Sand White Water Supply 17.98m-24.99m Sand White 17.98m-24.99m Clay Bands Water Supply 24.99m-25.29m Clay Sandy	1801m	South East
10104196	0.00m-12.20m sand	1802m	North
10095009	0.00m-7.63m UNCONSOLIDATED ALL SANDS	1803m	North
10058634	0.00m-5.00m	1804m	North West
10033053	0.00m-16.47m sand, unconsolidated	1809m	North West
10034478	0.00m-7.93m sand	1814m	North
10119545	0.00m-5.00m Sand	1814m	North
10114623	0.00m-0.30m topsoil 0.30m-4.50m sand, yellow 4.50m-7.00m sand, white	1815m	North

NGIS Bore ID	Drillers Log	Distance	Direction
10011910	0.00m-0.30m Topsoil 0.30m-0.91m Sand Yellow Hard Cemented 0.91m-3.65m Sand Yellow Clay 3.65m-6.09m Sand White Clean Water Supply 6.09m-9.75m Sand Packed Dry 9.75m-15.84m Sand White Clean Water Supply 15.84m-16.15m Clay Sandy Bands 16.15m-17.37m Sand White Clay 17.37m-17.67m Peat 17.67m-18.28m Sand Grey Clay 18.28m-19.20m Peat Clay Bands 19.20m-20.72m Peat Sand 20.72m-21.33m Sand Coarse Hard Cemented Clay 21.33m-23.62m Sand White Clay 23.62m-25.29m Sand Peaty clay 25.29m-29.26m Sand White	1820m	North West
10028906	0.00m-7.01m sand, unconsolidated	1832m	North
10059743	0.00m-5.79m sand, unconsolidated	1832m	North
10100511	0.00m-7.00m sand	1840m	North
10123713	0.00m-6.10m UNCONSOLIDATED ALL SAND	1849m	North
10100746	0.00m-0.60m Sand Grey 0.60m-6.09m Sand Yellow Water Supply	1850m	South West
10026727	0.00m-0.20m BITUMEN 0.20m-1.00m FILL, MOIST,ORANGE BROWN AND BLACK 1.00m-3.00m SAND MOIST,PALE,M/DENSE,COARSE	1855m	North East
10002963	0.00m-3.96m Sand Dry 3.96m-6.09m Sand Clean Water Supply 6.09m-8.53m Sand Peaty 8.53m-9.44m Sand Clean Peaty 9.44m-16.45m Sand Peaty 16.45m-18.59m Sand Clean Water Supply 18.59m-21.03m Sand Water Supply 21.03m-21.33m Sand Grey Clayey 21.33m-22.55m Sand Peaty 22.55m-24.84m Clay Dark Grey Stiff	1856m	West
10126598	0.00m-1.00m FILL 1.00m-4.50m SAND MED. FINE	1856m	South West
10137905	0.00m-1.00m fill 1.00m-4.50m sand med. fine	1856m	South West
10030099	0.00m-5.00m sand	1858m	South East
10048787	0.00m-7.50m sand	1860m	North
10120685	0.00m-9.00m SAND	1865m	North
10113077	0.00m-6.10m CONSOLIDATED ALL SANDS	1869m	West
10119566	0.00m-0.10m BITUMEN 0.10m-1.00m SAND,GREY/BROWN,FINE,M/GRAINED 1.00m-2.00m SAND AS ABOVE 2.00m-3.00m SAND L/BROWN,M/GRAINED,WET,M/DENSE 3.00m-3.80m SAND AS ABOVE 3.80m-4.00m SAND AS ABOVE ,SATURATED	1875m	North West
10134208	0.00m-0.10m GRASS 0.10m-1.00m SAND,ORANGE,BROWN,M/GRAINED,DRY 1.00m-2.00m SAND, AS ABOVE 2.00m-3.00m SAND,LIGHT BROWN,M/GRAINED,WELL SORTED 3.00m-4.00m SAND AS ABOVE,SATURATED	1878m	North West
10126125	0.00m-5.80m UNCONSOLIDATED ALL SAND	1879m	West
10100142	0.00m-8.00m SAND	1883m	South
10138725	0.00m-1.00m FILL 1.00m-4.50m SAND MED. FINE	1884m	South West
10130491	0.00m-0.10m BITUMEN 0.10m-1.00m SAND, ORANGE/BROWN,FINE M/GRAINED 1.00m-2.00m SAND,WHITE/GREY,WELL SORTED F/M/GRAINED 2.00m-3.00m SAND,BROWN/GREY,WET,M/GRAINED 3.00m-3.80m SAND,AS ABOVE 3.80m-4.00m SAND AS ABOVE ,SATURATED	1886m	North West

NGIS Bore ID	Drillers Log	Distance	Direction
10107118	0.00m-0.60m Made Ground 0.60m-2.13m Sand Dry 2.13m-3.04m Sand Dry Hard Cemented 3.04m-3.65m Sand Dry Clean 3.65m-6.09m Sand White 6.09m-6.70m Clay White Sandy Water Supply 6.70m-9.14m Sand White Water Supply 9.14m-9.44m Sand Light Brown Water Supply 9.44m-13.10m Sand Light Brown Clay Hard Cemented 13.10m-15.24m Sand Dark Brown Peat Water Supply 15.24m-15.39m Sand Dark Quartz 15.39m-15.84m Sand Dark Hard Cemented 15.84m-16.76m Sand Light Brown Hard Cemented 16.76m-19.81m Sand Light Brown Clay Hard Cemented 19.81m-24.99m Sand Grey Hard Cemented 24.99m-25.29m Sand White Clay Clay Hard Cemented Water Supply 25.29m-26.67m Sand Grey Hard Cemented 26.67m-26.82m Sand Dirty Clay Peaty 26.82m-26.83m Clay	1888m	South
10025043	0.00m-0.15m FILL,MOIST,GREY BROWN,LOOSE,SAND 0.15m-3.00m SAND,MEDIUM DENSE,MOIST,GREY,M/GRAINED 3.00m-4.80m SAND,WET,PALE BROWN,COARSE GRAINED	1890m	North East
10123379	0.00m-0.10m BITUMEN 0.10m-1.00m SAND,GREY BROWN 1.00m-2.00m SAND,GREY BROWN,M/GRAINED,DRY 2.00m-3.00m SAND,L/BROWN,DAMP,WELL SORTED 3.00m-4.00m SAND AS ABOVE,WET 4.00m-4.80m SAND,L/BROWN,WET,M/GRAINED 4.80m-5.00m SAND AS ABOVE	1890m	North West
10120758	0.00m-0.10m GRASS 0.10m-1.00m SAND,YELLOW ORANGE,M/GRAINED 1.00m-2.00m SAND GREY BROWN,M/GRAINED,DRY 2.00m-3.00m SAND AS ABOVE ,WET 3.00m-4.00m SAND AS ABOVE ,WET 4.00m-5.00m SAND LIGHT BROWN,M/GRAINED,SATURATED 5.00m-6.00m SAND AS ABOVE ,SATURATED 6.00m-7.00m SAND AS ABOVE	1894m	North West
10112613	0.00m-0.91m Sand Grey 0.91m-1.21m Sand 1.21m-8.22m Sand Light Brown Water Supply 8.22m-9.14m Peat 9.14m-9.75m Sand Dirty 9.75m-11.27m Sand Water Supply 11.27m-11.58m Peat 11.58m-18.19m Sand Grey Water Supply 18.19m-18.21m Clay Black	1899m	West
10134115	0.00m-1.00m FILL 1.00m-4.50m SAND MED. FINE	1901m	South
10011502	0.00m-4.57m Sand Water Supply	1903m	North East
10057875	0.00m-3.65m Sand Grey Water Supply	1903m	South East
10122946	0.00m-0.10m BITUMEN 0.10m-0.50m SAND,GREY/BROWN,M/GRAINED,DRY 0.50m-2.00m SAND,YELLOW/ORANGE,M/GRAINED 2.00m-3.00m SAND,L/BROWN, M/GRAINED,DAMP 3.00m-3.80m SAND AS ABOVE ,WET 3.80m-4.00m SAND AS ABOVE ,SATURATED	1906m	North West
10122594	0.00m-15.25m sand	1908m	North
10085391	0.00m-0.10m GRASS 0.10m-4.00m SAND:LIGHT BROWN	1909m	North West
10086747	0.00m-0.10m GRASS 0.10m-2.00m SAND,MEDIUM BROWN 2.00m-3.00m SAND,LIGHT MED. BROWN 3.00m-4.00m SAND:L IGHT BROWN 4.00m-5.00m AS ABOVE 5.00m-6.00m AS ABOVE,SATURED 6.00m-7.00m AS ABOVE	1909m	North West
10087185	0.00m-2.00m FILL,SAND,DARK BROWN,YELLOW 2.00m-4.00m SAND,MEDIUM BROWN,SATURED	1909m	North West
10088869	0.00m-1.00m fill 1.00m-2.00m peat 2.00m-7.00m sand	1909m	North West
10089301	0.00m-2.00m FILL,SAND,GREY,DARK ORANGEY BROWN 2.00m-4.00m SAND,MEDIUM BROWN,NO ODOUR 4.00m-5.00m AS ABOVE,DENSE SAND 5.00m-7.00m SAND,LIGHT BROWN	1909m	North West

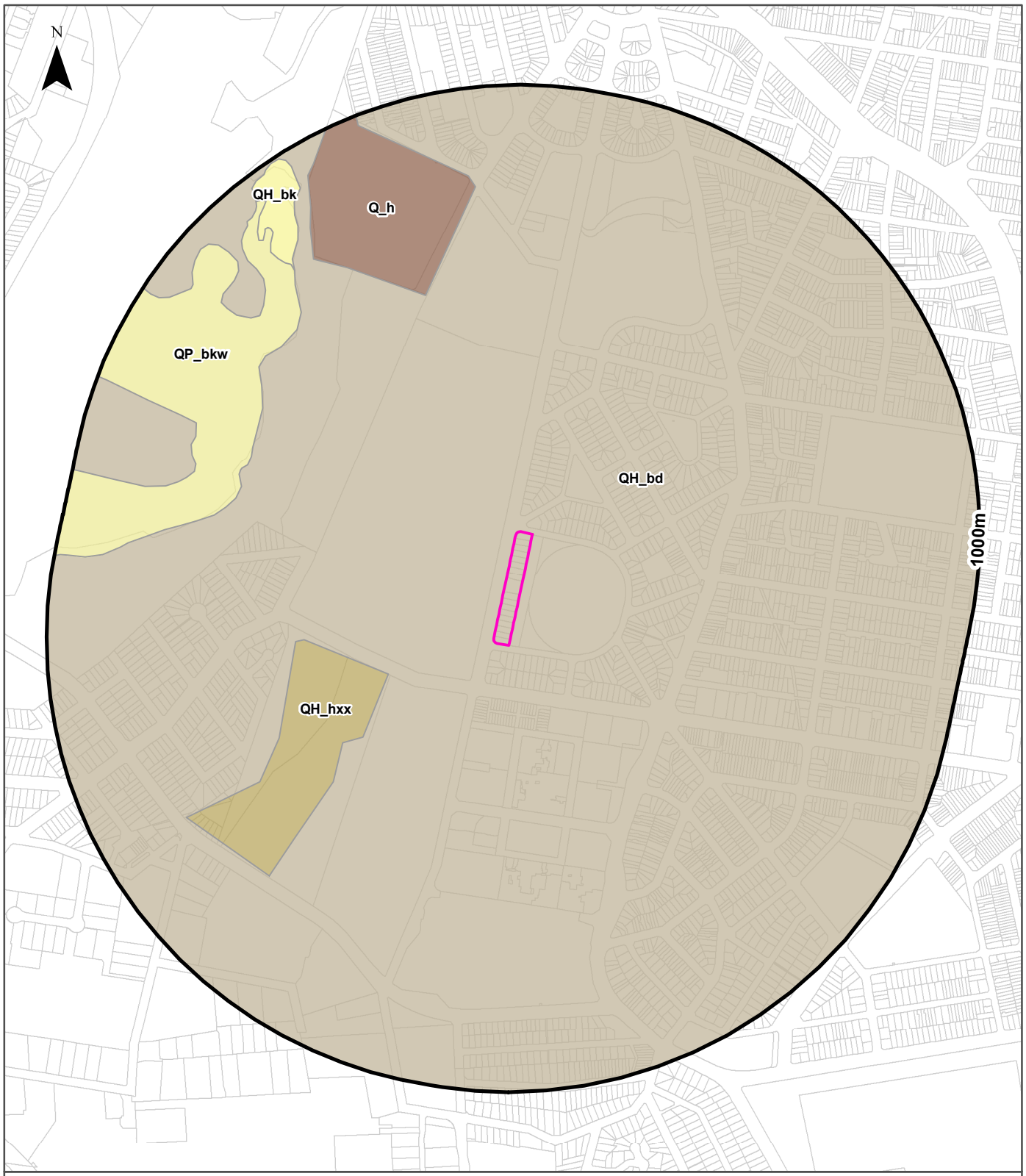
NGIS Bore ID	Drillers Log	Distance	Direction
10090885	0.00m-2.00m FILL,SAND MEDIUM DARK BROWN,GREYISH 2.00m-3.00m SAND,LIGHT BROWN,WET 3.00m-7.00m SAND AS ABOVE,SATURED,GARK BROWN	1909m	North West
10092122	0.00m-0.10m GRASS 0.10m-4.00m SAND,MEDIUM GRAINED	1909m	North West
10095015	0.00m-0.10m GRASS 0.10m-2.00m FILL,SAND,LIGHT ORANGE 2.00m-5.00m SAND,MEDIUM BROWN 5.00m-7.00m SAND,LIGHT BROWN,MED. GRAINED	1909m	North West
10042864	0.00m-0.20m BITUMEN 0.20m-0.50m FILL,MOIST,BROWN,DENSE,SAND,MINOR ASPHALT 0.50m-5.60m SAND,DENSE,MOIST,ORANGE,BROWN,SANDSTONE	1911m	North East
10127991	0.00m-1.50m ROCK	1912m	North East
10135306	0.00m-5.79m Sand, unconsolidated	1914m	North
10086463	0.00m-3.00m sand, rock	1922m	South East
10086802	0.00m-6.10m Sand	1925m	North
10125312	0.00m-1.00m FILL 1.00m-4.50m SAND MED. FINE	1929m	South
10121089	0.00m-7.31m Sand White Dry 7.31m-9.14m Sand Dark Grey Water Supply 9.14m-10.36m Sand Dark Brown Water Supply 10.36m-16.61m Sand Water Supply 16.61m-18.28m Peat Wood Dry 18.28m-21.33m Sand Grey Clean Water Supply 21.33m-24.99m Sand Light Brown Water Supply 24.99m-26.21m Sand Dark Brown Water Supply 26.21m-28.04m Sand Dark Grey Water Supply 28.04m-34.13m Sand Dark Brown Peat Water Supply 34.13m-34.15m Clay Peaty	1932m	South West
10056415	0.00m-13.72m sand	1933m	North
10120762	0.00m-12.43m UNCONSOLIDATED ALL SANDS	1935m	North
10111864	0.00m-0.76m Topsoil 0.76m-1.06m Sand White 1.06m-1.37m Sand Peaty Water Supply 1.37m-3.65m Sand Water Supply 3.65m-7.92m Sand Light Brown Water Supply 7.92m-8.07m Peat 8.07m-17.06m Sand Dirty Water Supply 17.06m-17.37m Peat 17.37m-18.89m Clay Grey 18.89m-20.42m Sand Grey Fossils:shell Fragments Water Supply 20.42m-20.43m Clay Grey	1937m	West
10109287	0.00m-0.76m Sand Black 0.76m-3.96m Sand 0.76m-3.96m Peat Wet 3.96m-5.48m Sand Grey Water Supply 5.48m-5.63m Peat 5.63m-9.14m Sand Grey Water Supply 9.14m-9.60m Clay Black 9.60m-10.36m Sand Peat Seams 10.36m-17.67m Sand Grey Water Supply 17.67m-18.68m Sand Grey Peat Water Supply 18.68m-18.69m Clay	1941m	South West
10094973	0.00m-0.30m TOPSOIL 0.30m-2.30m BROWN SAND 2.30m-7.00m WHITE SAND	1942m	North
10134604	0.00m-1.00m CONCRETE,FILL,MOIST ORANGE 1.00m-1.30m SAND 1.30m-2.10m SANDSTONE,MOIST,DARK 2.10m-3.50m SAND,WET,PALE 3.50m-6.00m SANDSTONE,SLIGHLY MOIST,WEATHERED	1945m	North East
10014439	0.00m-1.52m Made Ground 1.52m-4.57m Sand Dirty 4.57m-8.23m Sand 8.23m-8.53m Peat 8.53m-9.14m Sand 9.14m-9.45m Peat 9.45m-12.19m Sand Peaty 12.19m-16.46m Sand Water Supply 16.46m-17.68m Sand Peaty Wood Water Supply 17.68m-18.29m Sand Dirty Water Supply 18.29m-19.51m Sand Grey Clay Bands 19.51m-19.52m Clay Stiff Peaty	1947m	West

NGIS Bore ID	Drillers Log	Distance	Direction
10017859	0.00m-8.00m Sand	1947m	North
10121918	0.00m-0.50m CONCRETE 0.50m-0.70m FILL,PALE,ORANGE 0.70m-1.50m SAND 1.50m-1.90m SANDSTONE 1.90m-3.90m SAND 3.90m-5.50m SANDSTONE,MOIST,PALE,GREY	1950m	North East
10090515	0.00m-0.10m CONCRETE 0.10m-2.00m FILL,SAND YELLOWISH 2.00m-6.50m SAND,MEDIUM BROWN 6.50m-7.00m SAND,LIGHT BROWN	1951m	North West
10098205	0.00m-0.10m CONCRETE 0.10m-2.00m SAND,DARK BROWN 2.00m-7.00m SAND MEDIUM LIGHT BROWN	1951m	North West
10000460	0.00m-1.21m Sand White 1.21m-10.36m Sand 10.36m-10.97m Peat 10.97m-12.19m Sand 12.19m-12.49m Peat 12.49m-13.72m Sand Dirty Pete 13.72m-15.84m Sand Dirty 15.84m-17.67m Sand Yellow 17.67m-18.89m Sand Grey Clayey 18.89m-20.42m Clay Grey Pete	1952m	West
10086277	0.00m-23.00m SAND	1952m	North
10119041	0.00m-10.00m SAND CLEAN WHITE	1952m	South East
10123491	0.00m-7.01m sand, unconsolidated	1952m	North
10046615	0.00m-13.00m SAND 13.00m-13.20m ROCKS	1953m	North
10054864	0.00m-6.00m SAND	1954m	North
10121041	0.00m-1.21m Made Ground 1.21m-3.65m Sand Peaty 3.65m-4.57m Sand Peaty Wet 4.57m-9.14m Sand Dirty 9.14m-10.66m Sand Peaty Water Supply 10.66m-15.24m Sand Dirty 15.24m-19.50m Sand Water Supply 19.50m-20.72m Sand Dirty 20.72m-21.03m Sand Peaty Dirty 21.03m-23.77m Sand Peaty Wood 23.77m-25.90m Sand Peaty 25.90m-27.43m Clay Grey 27.43m-28.95m Sand Dirty Peaty 28.95m-32.91m Sand Dirty 32.91m-33.07m Clay Grey	1955m	South West
10116240	0.00m-0.91m Ash 0.00m-0.91m Sand Peaty 0.91m-1.82m Sand Peaty 1.82m-6.40m Sand 6.40m-7.01m Sand Peaty 7.01m-8.22m Clay Peaty 8.22m-10.36m Sand Peaty 10.36m-11.58m Clay Peaty 11.58m-12.19m Sand Peaty 12.19m-16.15m Sand	1957m	West
10126008	0.00m-1.00m FILL 1.00m-4.50m SAND MED. FINE	1958m	South
10117200	0.00m-1.82m Sand 1.82m-9.14m Sand Dry 9.14m-11.58m Sand Black 9.14m-11.58m Peat Some 11.58m-12.34m Clay Black 12.34m-16.15m Sand Grey Water Supply 16.15m-16.76m Sand Hard Cemented 16.76m-18.28m Sand Dry 18.28m-19.65m Clay 19.65m-24.99m Sand Grey Water Supply 24.99m-26.82m Sand Water Supply 26.82m-28.65m Sand Pete Water Supply 28.65m-34.75m Sand Grey Pete Water Supply	1959m	South West
10033585	0.00m-5.00m SAND	1960m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10130838	0.00m-0.10m CONCRETE 0.10m-1.00m FILL, MOIST,SAND, GRAVEL 1.00m-4.00m SAND, MOIST GREY BROWN 4.00m-6.00m SANDSTONE,ORANGE BROWN	1963m	North East
10015478	0.00m-7.02m Unconsolidated Sand	1964m	North
10122313	0.00m-7.00m GREY SAND 7.00m-8.00m GREY CLAY 8.00m-10.50m BROWN SANDSTONE 10.50m-11.00m BROWN SOFT SANDSTONE 11.00m-17.00m GREY SANDSTONE 17.00m-17.50m GREY CLAY 17.50m-43.00m WHITE SANDSTONE	1964m	North East
10042315	0.00m-0.50m FILL,SLIGHTLY MOIST,PALE PINK,DENSE,SANDSTONE,SAND 0.50m-3.00m SAND,MOIST,PALE GREYS,BROWN,COARSE 3.00m-5.00m SAND,WET,PALE BROWN,MEDIUM GRAINED	1967m	North East
10097254	0.00m-13.12m UNCONSOLIDATED ALL SAND	1967m	North
10116115	0.00m-11.50m Sand, unconsolidated	1969m	East
10009716	0.00m-4.87m Sand Water Supply	1972m	North
10023272	0.00m-0.20m FILL,GRAVEL 0.20m-2.00m SAND,FINE TO MEDIUM GRAINED. 2.00m-3.00m SAND, FINE TO MEDIUM GRAINED,YELLOW 3.00m-3.60m SAND,F/TO MEDIUM GR. L/BROWN.MOIST 3.60m-7.00m SAND,FINE TO MEDIIUM,GR. TAN,MOIST	1972m	South West
10030185	0.00m-7.32m sand, unconsolidated	1973m	North
10126120	0.00m-0.20m CONCRETE 0.20m-0.50m SAND,FINE GRAINED,BROWN,FEW GRAVEL 0.50m-7.00m SAND,BROWN,FINE GRAINED,WHITE,WET,STRONG HYDROCARBON ODOUR	1978m	South West
10136330	0.00m-5.80m UNCONSOLIDATED SANDS	1994m	North West
10025566	0.00m-3.65m Sand Water Supply	1997m	North
10058197	0.00m-9.00m sand	1998m	South East

Geology

68-80 Banks Avenue, Pagewood, NSW 2035



Legend

Linear Geological Structures and Boundaries

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

Scale: 0 100 200 400 600 Meters

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

Coordinate System: GDA 1994 MGA Zone 56

Date: 06 May 2025

Geology

68-80 Banks Avenue, Pagewood, NSW 2035

Geological Units

Geological units within the dataset buffer:

Code	Unit Name	Description	Stratigraphy	Age Range	Dominant Lithology	Dist	Dir
QH_bd	Coastal deposits - dune facies	Marine-deposited and aeolian-reworked coastal sand dunes.	/Coastal deposits//Coastal deposits - dune facies//	Holocene (base) to Now (top)	Sand	0m	On-site
QH_hxx	Anthropogenic deposits - extensive excavation of Quaternary deposits	Extensive excavation of natural Quaternary deposits, including sand mining.	/Anthropogenic deposits//Anthropogenic deposits - disturbed land/Anthropogenic deposits - extensive excavation of Quaternary deposits/	Holocene (base) to Now (top)	Anthropogenic material	248m	South West
Q_h	Anthropogenic deposits	Anthropocene deposits varying from large man-made clasts (concrete blocks to building demolition rubble) to quarried natural boulders, with interstitial sand-sized to clay matrix.	/Anthropogenic deposits////	Quaternary (base) to Now (top)	Anthropogenic material	569m	North
QP_bkw	Coastal deposits - barrier lake facies (subaqueous)	Organic-rich mud, silt, clay, very fine- to fine-grained quartz-lithic-carbonate sand (marine-deposited).	/Coastal deposits//Coastal deposits - barrier lake facies/Coastal deposits - barrier lake facies (subaqueous)/	Pleistocene (base) to Now (top)	Organic rich sediment	616m	North West
QH_bk	Coastal deposits - barrier lake facies	Organic-rich mud, silt, clay, very fine- to fine-grained quartz-lithic-carbonate sand (marine-deposited).	/Coastal deposits//Coastal deposits - barrier lake facies//	Holocene (base) to Now (top)	Organic rich sediment	770m	North West

Geology

68-80 Banks Avenue, Pagewood, NSW 2035

Linear Geological Structures

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

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

Trendlines within the dataset buffer:

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

Fold axes within the dataset buffer:

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

Marker beds within the dataset buffer:

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

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

Naturally Occurring Asbestos Potential

68-80 Banks Avenue, Pagewood, NSW 2035

Naturally Occurring Asbestos Potential

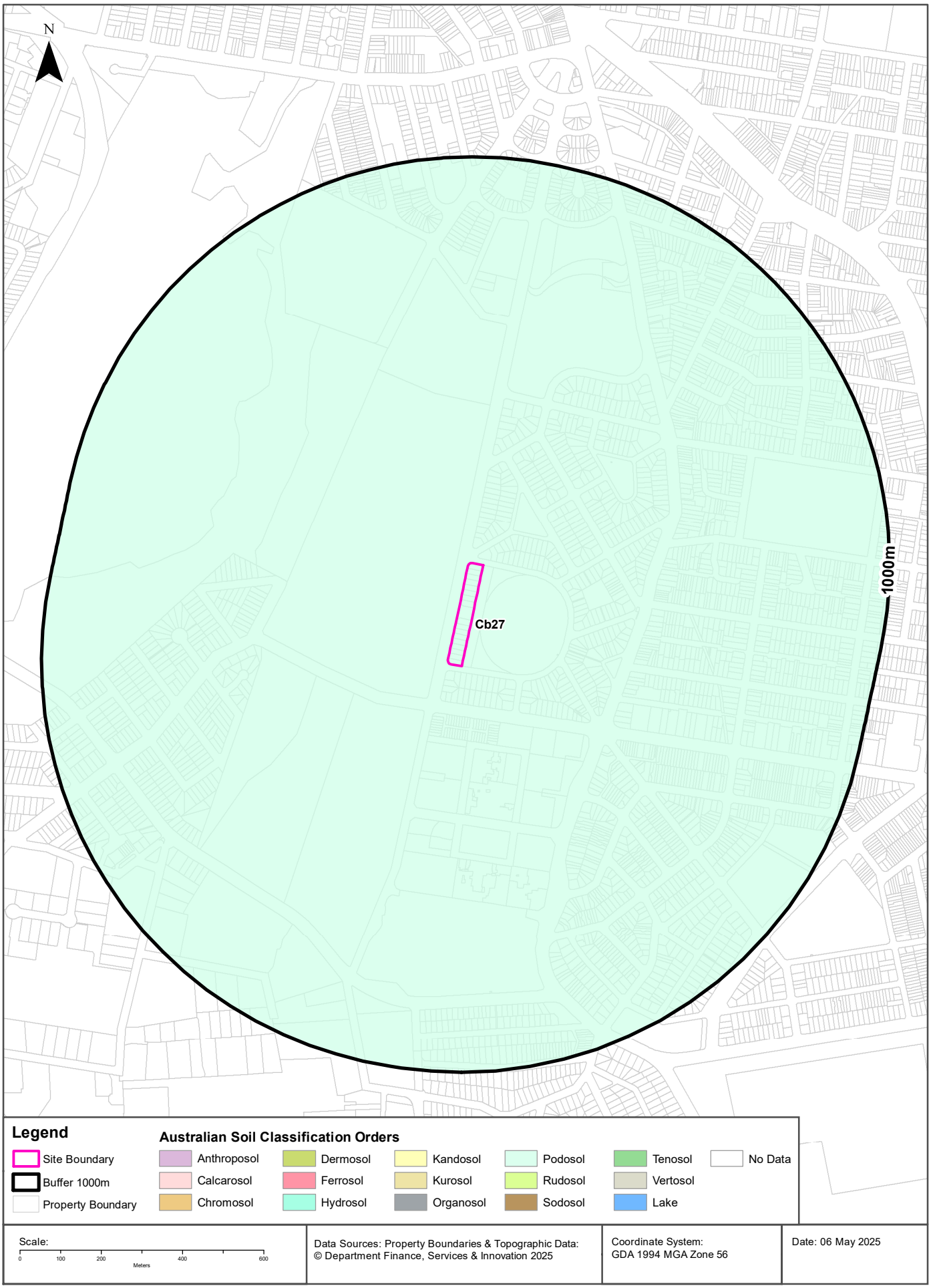
Naturally Occurring Asbestos Potential within the dataset buffer:

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

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

Atlas of Australian Soils

68-80 Banks Avenue, Pagewood, NSW 2035



Soils

68-80 Banks Avenue, Pagewood, NSW 2035

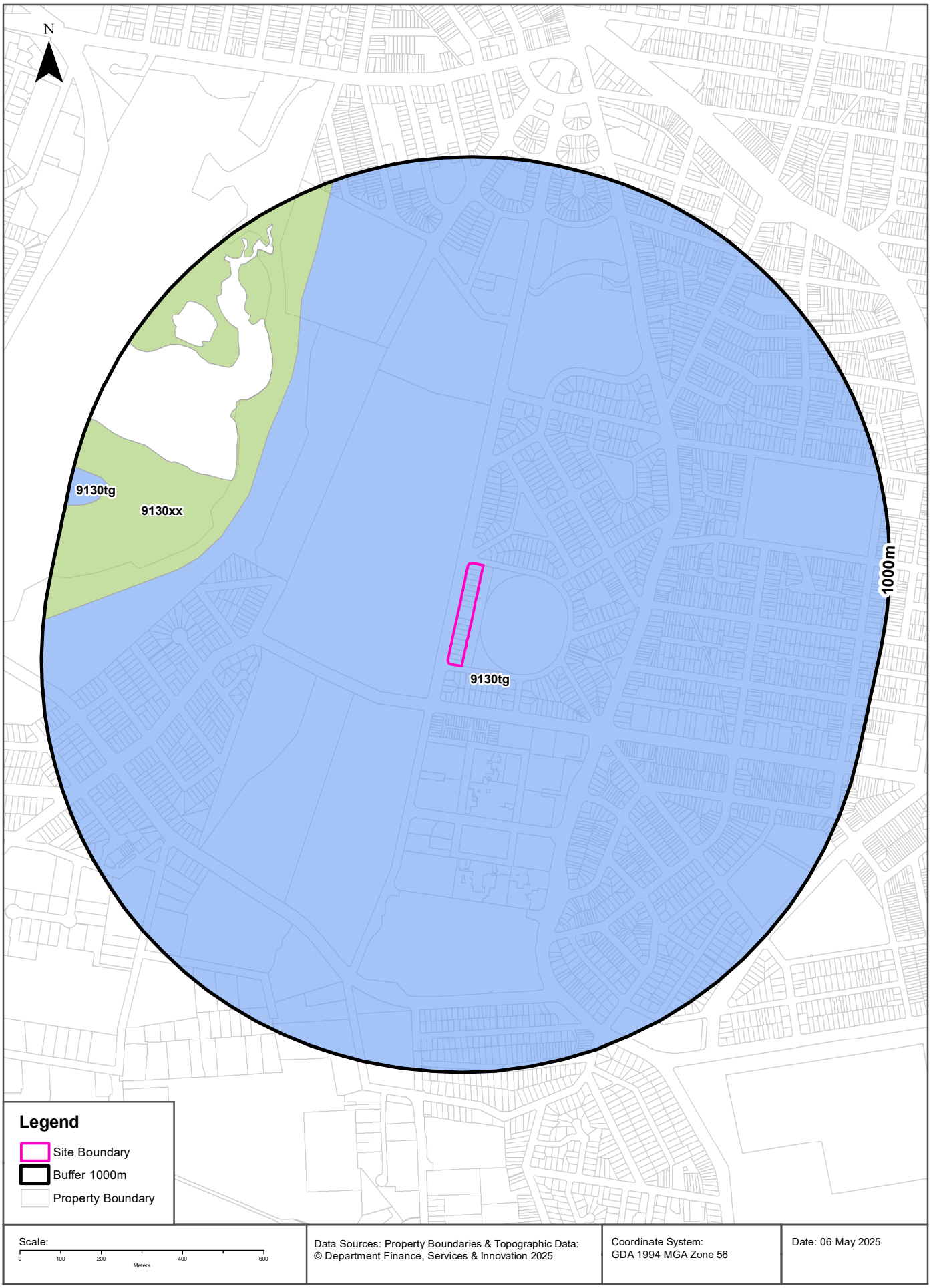
Atlas of Australian Soils

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

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Cb27	Podosol	Coastal sand plains and dunes, lagoons, and swampy areas: chief soils are leached sands (Uc2.3 and Uc2.2). Associated are dunes of siliceous sands (Uc1.2) and/or calcareous sands (Uc1.l) fringing the coastline; and swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Unit Cb27 has similarities with units Cb28 and Ca6.	0m	On-site

Soil Landscapes of Central and Eastern NSW

68-80 Banks Avenue, Pagewood, NSW 2035



Soils

68-80 Banks Avenue, Pagewood, NSW 2035

Soil Landscapes of Central and Eastern NSW

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

Soil Code	Name	Distance	Direction
9130tg	Tuggerah	0m	On-site
9130xx	Disturbed Terrain	567m	North West

Acid Sulfate Soils

68-80 Banks Avenue, Pagewood, NSW 2035

Environmental Planning Instrument - Acid Sulfate Soils

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

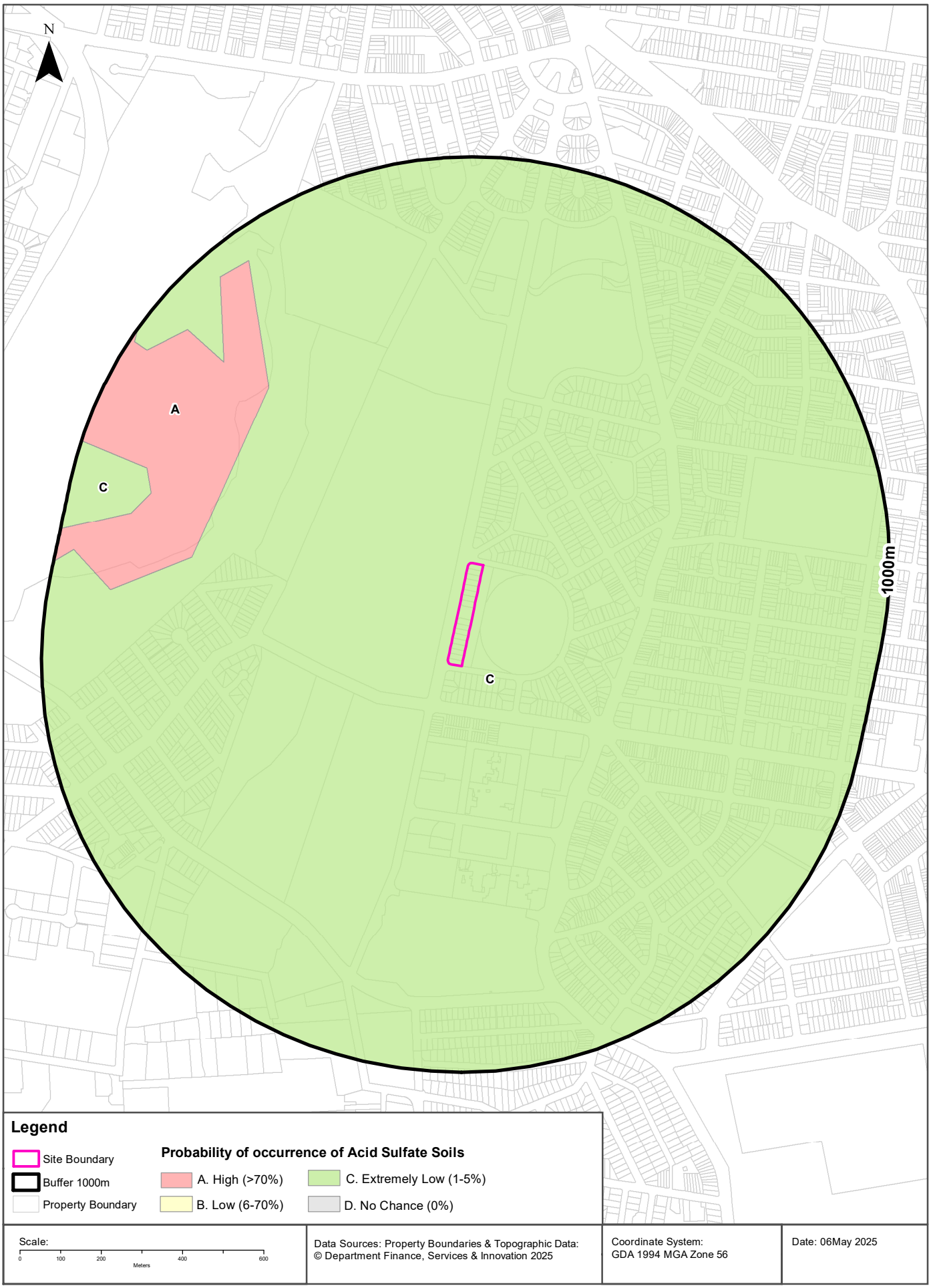
Soil Class	Description	EPI Name
N/A		

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

Soil Class	Description	EPI Name	Distance	Direction
N/A				

Atlas of Australian Acid Sulfate Soils

68-80 Banks Avenue, Pagewood, NSW 2035



Acid Sulfate Soils

68-80 Banks Avenue, Pagewood, NSW 2035

Atlas of Australian Acid Sulfate Soils

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

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site
A	High Probability of occurrence. >70% chance of occurrence.	629m	North West

Dryland Salinity

68-80 Banks Avenue, Pagewood, NSW 2035

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A		

Dryland Salinity Data Source : National Land and Water Resources Audit
The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.
In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Mining

68-80 Banks Avenue, Pagewood, NSW 2035

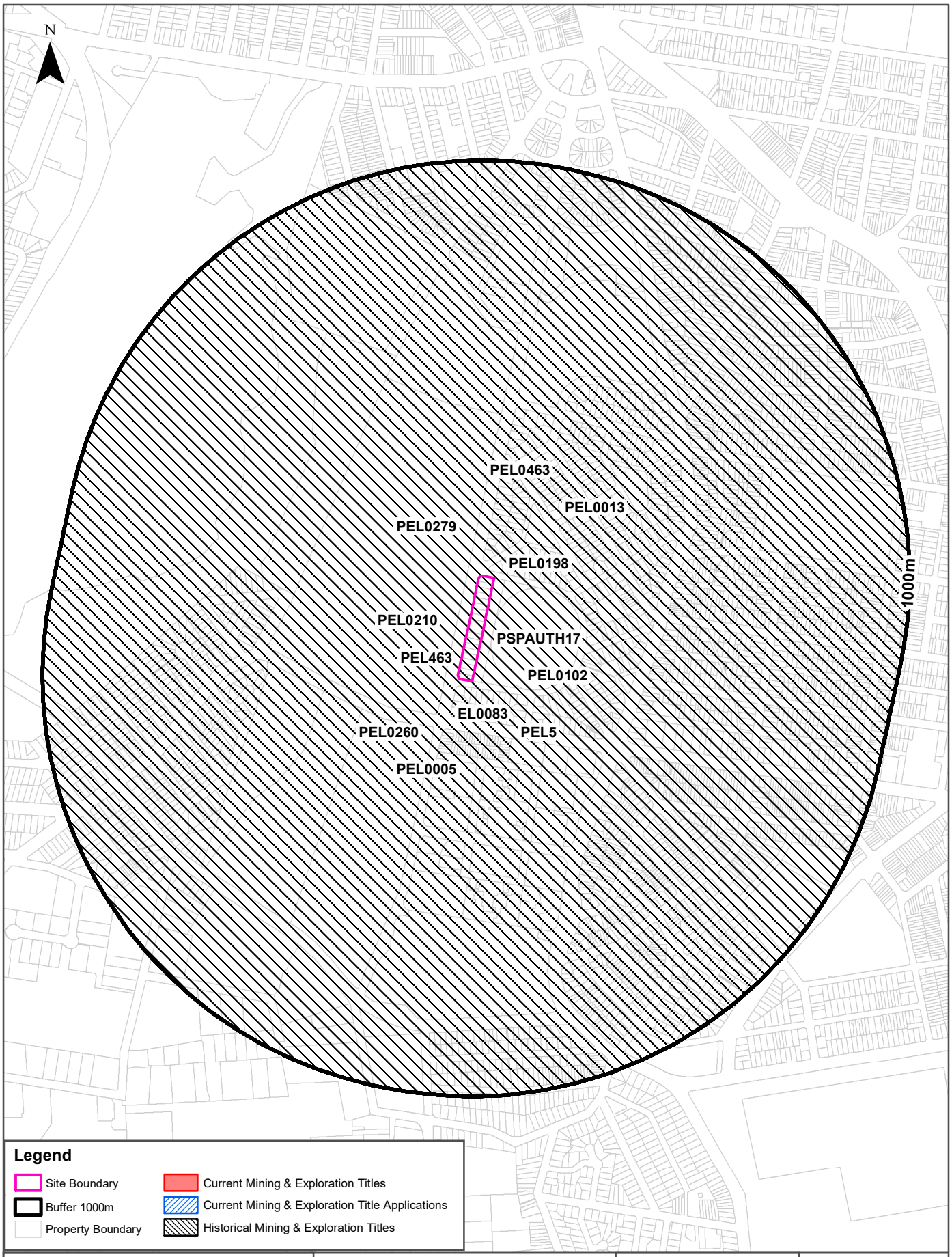
Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

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

Mining & Exploration Titles

68-80 Banks Avenue, Pagewood, NSW 2035



Mining

68-80 Banks Avenue, Pagewood, NSW 2035

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

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

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

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

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

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

Mining

68-80 Banks Avenue, Pagewood, NSW 2035

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
PEL0005	AGL UPSTREAM INVESTMENTS PTY LIMITED	19931111	20150403	PETROLEUM	Petroleum	0m	On-site
PSPAUTH17	MACQUARIE ENERGY PTY LTD	20070803	20080703	PETROLEUM	Petroleum	0m	On-site
EL0083	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	19670201	19680201	MINERALS		0m	On-site
PEL463	DART ENERGY (APOLLO) PTY LTD	20081022	20130227	MINERALS		0m	On-site
PEL5	AGL UPSTREAM INVESTMENTS PTY LIMITED	19931111	20011210	MINERALS		0m	On-site
PEL0102	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL0463	DART ENERGY (APOLLO) PTY LTD	20091010	20150603	PETROLEUM	Petroleum	0m	On-site
PEL0013	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL0260	NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO.	19810909	19930803	PETROLEUM	Petroleum	0m	On-site
PEL0198	JOHN STREVENS (TERRIGAL) NL			PETROLEUM	Petroleum	0m	On-site
PEL0210	THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD			PETROLEUM	Petroleum	0m	On-site
PEL0279	THE ELECTRICITY COMMISSION OF NSW (TRADING AS PACIFIC POWER)	19910504	19931111	PETROLEUM	Petroleum	0m	On-site

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

State Environmental Planning Policy

68-80 Banks Avenue, Pagewood, NSW 2035

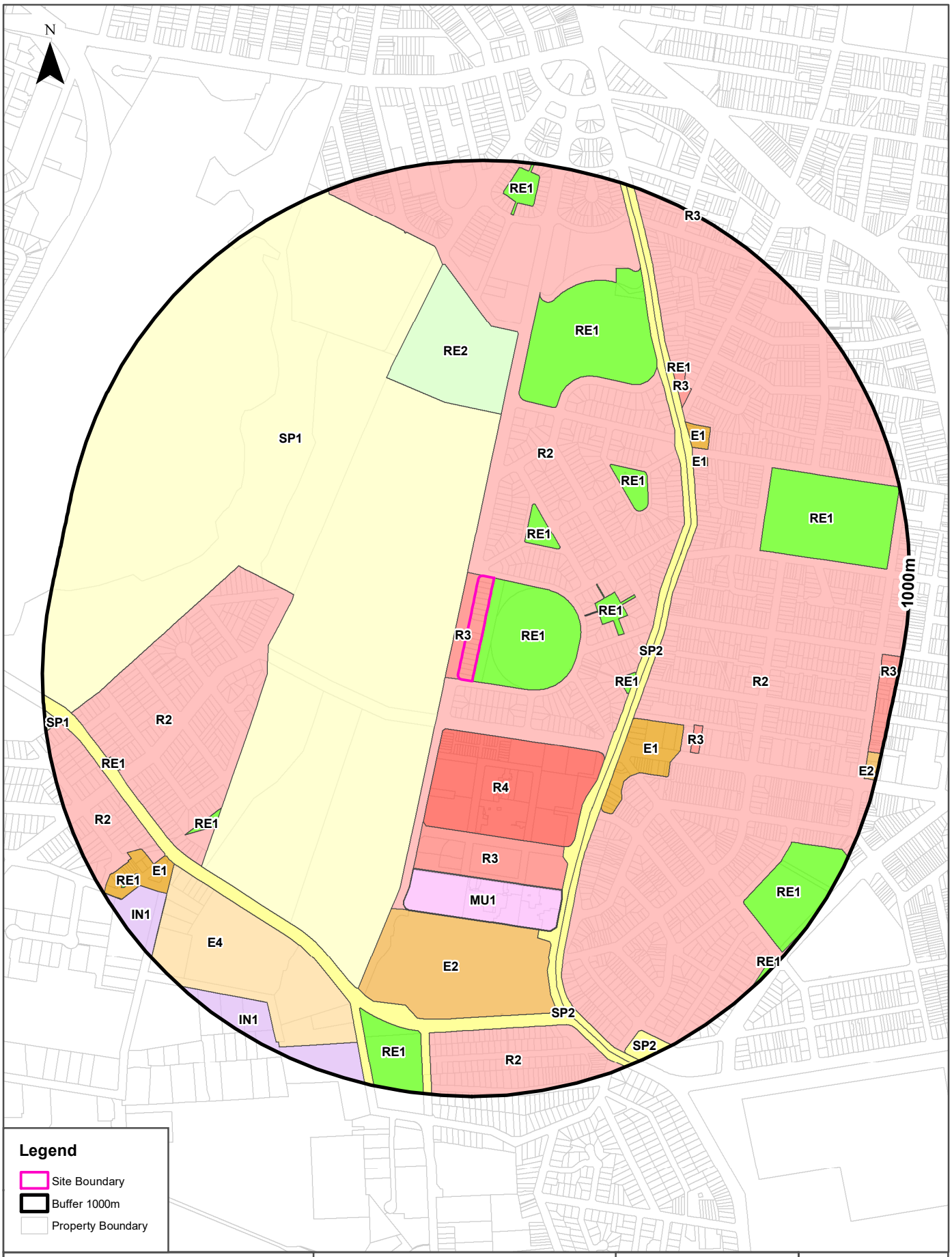
State Significant Precincts

What SEPP State Significant Precincts exist within the dataset buffer?

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

EPI Planning Zones

68-80 Banks Avenue, Pagewood, NSW 2035



Environmental Planning Instrument

68-80 Banks Avenue, Pagewood, NSW 2035

Land Zoning

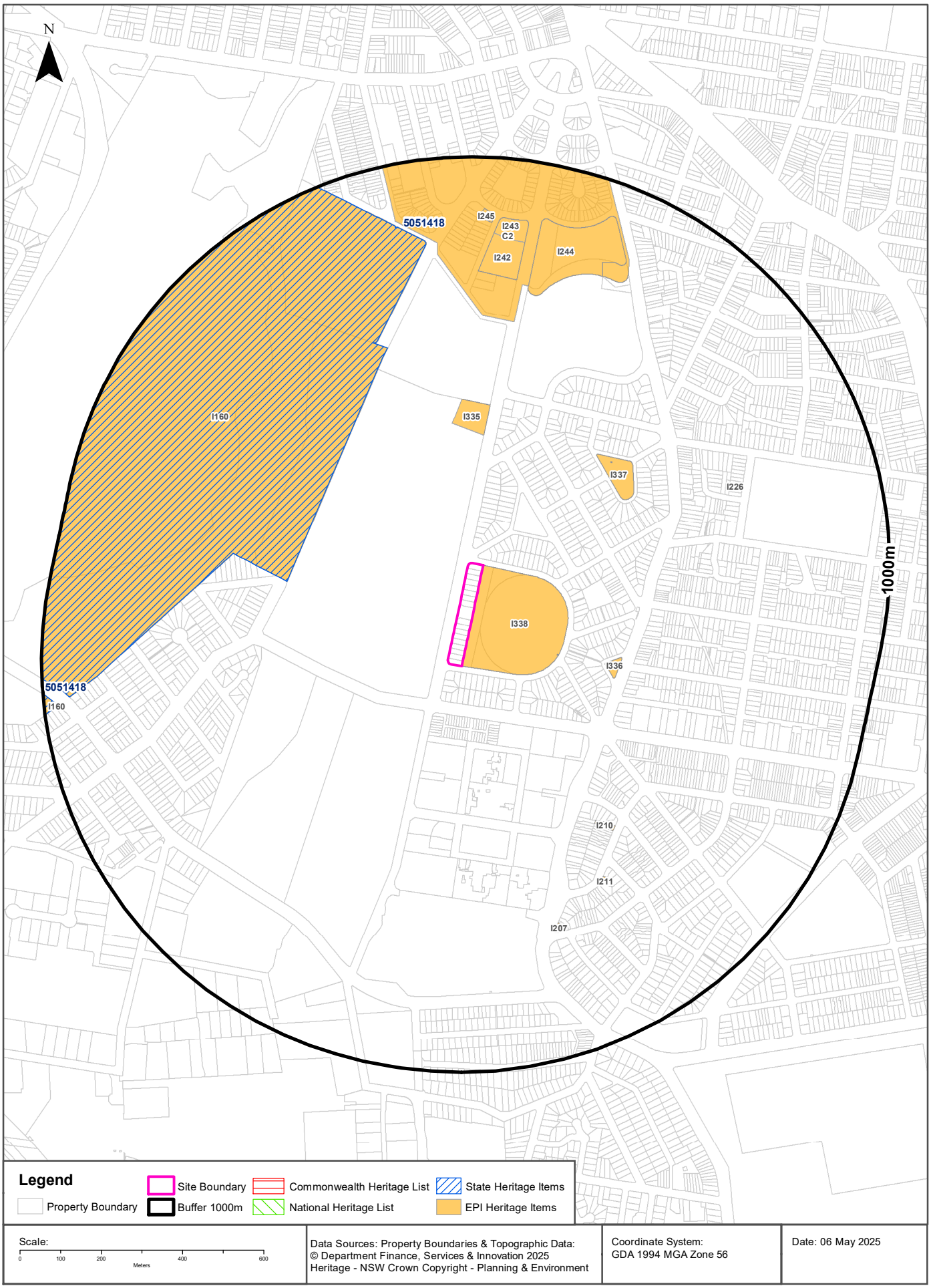
What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R3	Medium Density Residential		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	0m	On-site
R2	Low Density Residential		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	0m	North
RE1	Public Recreation		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	0m	East
SP1	Special Activities	Recreation Facility (Outdoor)	Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	30m	North West
RE1	Public Recreation		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	114m	North East
R4	High Density Residential		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	122m	South
RE1	Public Recreation		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	343m	East
R3	Medium Density Residential		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	354m	South
SP2	Infrastructure	Classified Road	Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	361m	South
RE1	Public Recreation		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	376m	North East
SP2	Infrastructure	Classified Road	Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	379m	East
RE2	Private Recreation		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	392m	North
E1	Local Centre		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	394m	South East
R2	Low Density Residential		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	396m	East
R2	Low Density Residential		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	428m	West
RE1	Public Recreation		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	433m	North
MU1	Mixed Use		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	466m	South
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	544m	South East
E1	Local Centre		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	551m	North East
E2	Commercial Centre		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	567m	South
E1	Local Centre		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	570m	North East
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	610m	North East
RE1	Public Recreation		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	641m	East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	651m	South West
RE1	Public Recreation		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	657m	North East
E4	General Industrial		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	746m	South West
E1	Local Centre		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	818m	South West
R2	Low Density Residential		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	825m	South West
RE1	Public Recreation		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	827m	South
R2	Low Density Residential		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	839m	South
RE1	Public Recreation		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	839m	South East
RE1	Public Recreation		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	843m	West
RE1	Public Recreation		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	873m	North
IN1	General Industrial		State Environmental Planning Policy (Transport and Infrastructure) 2021	08/07/2022	08/07/2022	26/08/2022	State Environmental Planning Policy (Transport and Infrastructure) Amendment (Three Ports) 2022	873m	South West
RE1	Public Recreation		Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	905m	South West
SP2	Infrastructure	Educational Establishment	Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	932m	South
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	951m	East
SP1	Special Activities	Recreation Facility (Outdoor)	Bayside Local Environmental Plan 2021	21/04/2023	26/04/2023	15/11/2024	Map Amendment No 3	966m	West
E2	Commercial Centre		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	966m	East
RE1	Public Recreation		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	979m	South East
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	01/09/2023	Amendment No 9	995m	North East

Heritage Items

68-80 Banks Avenue, Pagewood, NSW 2035



Heritage

68-80 Banks Avenue, Pagewood, NSW 2035

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

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

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

National Heritage List

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

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

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

State Heritage Register - Curtilages

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

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
5051418	Botany Water Reserves	1024 Botany Road Mascot	BAYSIDE	18/11/1999	01317	2150	395m	North West
5051418	Botany Water Reserves	1024 Botany Road Mascot	BAYSIDE	18/11/1999	01317	2150	966m	West

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

Environmental Planning Instrument - Heritage

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

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I338	Jellico Park	Item - Landscape	Local	Bayside Local Environmental Plan 2021	27/08/2021	27/08/2021	15/11/2024	0m	East
I335	Bonnie Doon Golf Club House	Item - General	Local	Bayside Local Environmental Plan 2021	27/08/2021	27/08/2021	15/11/2024	316m	North
I336	Harris Reserve	Item - Landscape	Local	Bayside Local Environmental Plan 2021	27/08/2021	27/08/2021	15/11/2024	343m	East
I337	Streetscape - Verge plantings of Canary Island Date Palm (Phoenix Canariensis)	Item - Landscape	Local	Bayside Local Environmental Plan 2021	27/08/2021	27/08/2021	15/11/2024	376m	North East
I160	Botany water reserves	Item - Landscape	State	Bayside Local Environmental Plan 2021	27/08/2021	27/08/2021	15/11/2024	395m	North West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I210	Brick bungalow	Item - General	Local	Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	08/12/2023	501m	South East
C2	Daceyville Garden Suburb Heritage Conservation Area	Conservation Area - General	Local	Bayside Local Environmental Plan 2021	15/11/2024	15/11/2024	15/11/2024	602m	North
I211	Neo-romanesque house	Item - General	Local	Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	08/12/2023	622m	South East
I226	'Palmyra', late Victorian cottage	Item - General	Local	Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	08/12/2023	634m	North East
I207	Inter-war house	Item - General	Local	Randwick Local Environmental Plan 2012	18/08/2023	01/09/2023	08/12/2023	673m	South
I244	Daceyville Public School	Item - General	Local	Bayside Local Environmental Plan 2021	27/08/2021	27/08/2021	15/11/2024	677m	North
I242	Marist Brothers School and Presbytery	Item - General	Local	Bayside Local Environmental Plan 2021	27/08/2021	27/08/2021	15/11/2024	707m	North
I243	Former St Michael's Church (now hall)	Item - General	Local	Bayside Local Environmental Plan 2021	27/08/2021	27/08/2021	15/11/2024	800m	North
I245	Former Community Centre	Item - General	Local	Bayside Local Environmental Plan 2021	27/08/2021	27/08/2021	15/11/2024	839m	North
I160	Botany water reserves	Item - Landscape	State	Bayside Local Environmental Plan 2021	27/08/2021	27/08/2021	15/11/2024	966m	West

Natural Hazards

68-80 Banks Avenue, Pagewood, NSW 2035

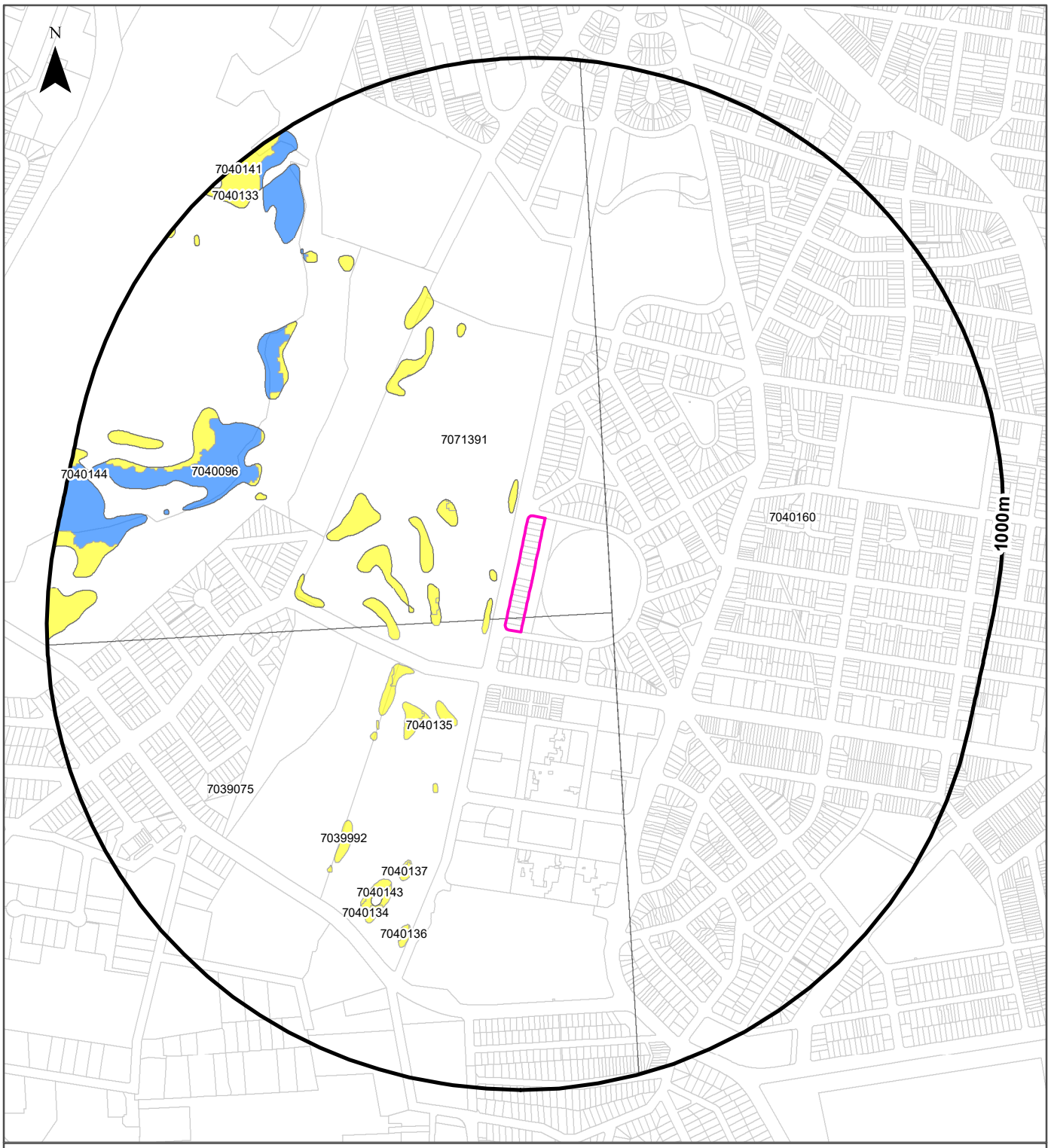
Bush Fire Prone Land

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

Bush Fire Prone Land Category	Distance	Direction
No records in buffer		

Ecological Constraints - Vegetation & Ramsar Wetlands

68-80 Banks Avenue, Pagewood, NSW 2035



Site Boundary
ReportBuffer
Property Boundary
Ramsar Wetland

Native Vegetation

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

Scale: 0 100 200 400 600 Meters

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

Coordinate System: GDA 1994 MGA Zone 56

Date: 06 May 2025

Ecological Constraints

68-80 Banks Avenue, Pagewood, NSW 2035

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
7039075	Not classified	(Not classified) Not classified	Not classified	0m	On-site
7071391	Not classified	(Not classified) Not classified	Not classified	0m	On-site
7039992	Heathlands	(Heathlands) Sydney Coastal Sand Mantle Heath	Wallum Sand Heaths	36m	South West
7040133	Heathlands	(Heathlands) Coastal Foredune Wattle Scrub	Coastal Headland Heaths	41m	West
7040160	Not classified	(Not classified) Not classified	Not classified	133m	East
7040135	Heathlands	(Heathlands) Coastal Foredune Wattle Scrub	Coastal Headland Heaths	256m	South West
7040137	Heathlands	(Heathlands) Southern Sandplain Heath	Wallum Sand Heaths	550m	South
7040096	Freshwater Wetlands	(Freshwater Wetlands) Sydney Creekflat Wetland	Coastal Freshwater Lagoons	594m	North West
7040134	Heathlands	(Heathlands) Southern Sandplain Heath	Wallum Sand Heaths	610m	South West
7040143	Not classified	(Not classified) Not classified	Not classified	629m	South West
7040136	Heathlands	(Heathlands) Southern Sandplain Heath	Wallum Sand Heaths	679m	South
7040144	Not classified	(Not classified) Not classified	Not classified	961m	West
7040141	Not classified	(Not classified) Not classified	Not classified	985m	North West

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

Ecological Constraints

68-80 Banks Avenue, Pagewood, NSW 2035

Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

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

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

Ecological Constraints

68-80 Banks Avenue, Pagewood, NSW 2035

Collaborative Australian Protected Areas Database - Terrestrial

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

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

Collaborative Australian Protected Areas Database - Marine

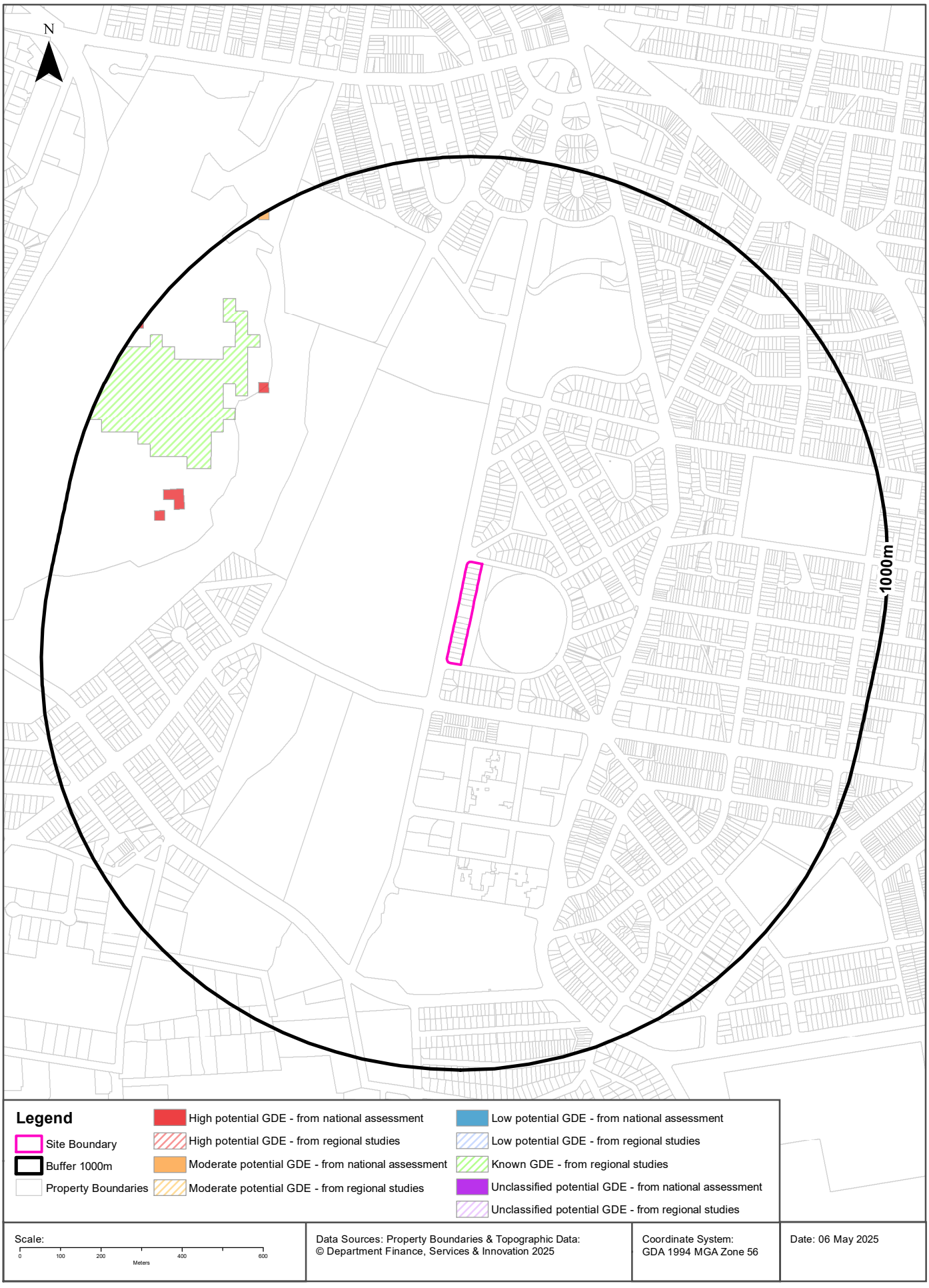
Protected areas in marine environments identified by the CAPAD within the dataset buffer:

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

Source: Collaborative Australian Protected Areas Database (CAPAD) 2022

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

68-80 Banks Avenue, Pagewood, NSW 2035



Ecological Constraints

68-80 Banks Avenue, Pagewood, NSW 2035

Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	High potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	648m	North West
Aquatic	Known GDE - from regional studies	Undulating to low hilly country, mainly on shale.	Wetland		673m	North West
Terrestrial	Moderate potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	979m	North West
Terrestrial	Low potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	999m	West

Ecological Constraints - Inflow Dependent Ecosystems Likelihood

68-80 Banks Avenue, Pagewood, NSW 2035

Ecological Constraints

68-80 Banks Avenue, Pagewood, NSW 2035

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	1	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	648m	North West
Aquatic	10	Undulating to low hilly country, mainly on shale.	Wetland		673m	North West
Terrestrial	8	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	711m	West
Terrestrial	5	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	752m	West
Terrestrial	3	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	979m	North West
Terrestrial	10	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	988m	North West
Terrestrial	2	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	999m	West

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology

Ecological Constraints

68-80 Banks Avenue, Pagewood, NSW 2035

NSW BioNet Species Sightings

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

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	Crinia tinnula	Wallum Froglet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Amphibia	Litoria aurea	Green and Golden Bell Frog	Not Sensitive	Endangered	Vulnerable	
Animalia	Amphibia	Pseudophryne australis	Red-crowned Toadlet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Actitis hypoleucos	Common Sandpiper	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Anous albivitta	Grey Ternlet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Anous stolidus	Common Noddy	Not Sensitive	Not Listed	Not Listed	CAMBA;JAMBA
Animalia	Aves	Anseranas semipalmata	Magpie Goose	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Anthochaera phrygia	Regent Honeyeater	Category 2	Critically Endangered	Critically Endangered	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Ardenna carneipes	Flesh-footed Shearwater	Not Sensitive	Vulnerable	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Ardenna grisea	Sooty Shearwater	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Ardenna pacifica	Wedge-tailed Shearwater	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Ardenna tenuirostris	Short-tailed Shearwater	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Arenaria interpres	Ruddy Turnstone	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Botaurus poiciloptilus	Australasian Bittern	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Burhinus grallarius	Bush Stone-curlew	Not Sensitive	Endangered	Not Listed	
Animalia	Aves	Calamanthus fuliginosus	Striated Fieldwren	Not Sensitive	Endangered	Not Listed	
Animalia	Aves	Calidris acuminata	Sharp-tailed Sandpiper	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris alba	Sanderling	Not Sensitive	Vulnerable	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris canutus	Red Knot	Not Sensitive	Not Listed	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris falcinellus	Broad-billed Sandpiper	Not Sensitive	Vulnerable	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris ferruginea	Curlew Sandpiper	Not Sensitive	Critically Endangered	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris melanotos	Pectoral Sandpiper	Not Sensitive	Not Listed	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Calidris ruficollis	Red-necked Stint	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris tenuirostris	Great Knot	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Category 3	Endangered	Endangered	
Animalia	Aves	Calonectris leucomelas	Streaked Shearwater	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Calyptorhynchus banksii banksii	Red-tailed Black-Cockatoo (coastal subspecies)	Category 2	Critically Endangered	Not Listed	
Animalia	Aves	Calyptorhynchus banksii samueli	Red-tailed Black-Cockatoo (inland subspecies)	Category 2	Vulnerable	Not Listed	
Animalia	Aves	Calyptorhynchus lathami lathami	South-eastern Glossy Black-Cockatoo	Category 2	Vulnerable	Vulnerable	
Animalia	Aves	Certhionyx variegatus	Pied Honeyeater	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Charadrius leschenaultii	Greater Sand-plover	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Charadrius mongolus	Lesser Sand-plover	Not Sensitive	Vulnerable	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Charadrius veredus	Oriental Plover	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Chlidonias leucopterus	White-winged Black Tern	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Circus assimilis	Spotted Harrier	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Coracina lineata	Barred Cuckoo-shrike	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Cuculus optatus	Oriental Cuckoo	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Dasyornis brachypterus	Eastern Bristlebird	Category 2	Endangered	Endangered	
Animalia	Aves	Diomedea exulans	Wandering Albatross	Not Sensitive	Endangered	Vulnerable	
Animalia	Aves	Diomedea gibsoni	Gibson's Albatross	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Not Sensitive	Endangered Population, Vulnerable	Not Listed	
Animalia	Aves	Erythrotriorchis radiatus	Red Goshawk	Category 2	Endangered	Endangered	
Animalia	Aves	Esacus magnirostris	Beach Stone-curlew	Not Sensitive	Critically Endangered	Not Listed	
Animalia	Aves	Falco subniger	Black Falcon	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Fregata ariel	Lesser Frigatebird	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;JAMBA
Animalia	Aves	Gelochelidon nilotica	Gull-billed Tern	Not Sensitive	Not Listed	Not Listed	CAMBA
Animalia	Aves	Grantiella picta	Painted Honeyeater	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Gygis alba	White Tern	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Haematopus fuliginosus	Sooty Oystercatcher	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Haematopus longirostris	Pied Oystercatcher	Not Sensitive	Endangered	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hirundo rustica	Barn Swallow	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hydroprogne caspia	Caspian Tern	Not Sensitive	Not Listed	Not Listed	JAMBA

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Ixobrychus flavicollis	Black Bittern	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Lathamus discolor	Swift Parrot	Not Sensitive	Endangered	Critically Endangered	
Animalia	Aves	Limosa lapponica	Bar-tailed Godwit	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Limosa lapponica baueri	Bar-tailed Godwit (baueri)	Not Sensitive	Endangered	Vulnerable	
Animalia	Aves	Limosa limosa	Black-tailed Godwit	Not Sensitive	Vulnerable	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lophochroa leadbeateri	Pink Cockatoo	Category 2	Vulnerable	Endangered	
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Macronectes giganteus	Southern Giant Petrel	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Macronectes halli	Northern Giant-Petrel	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Manorina melanotis	Black-eared Miner	Not Sensitive	Critically Endangered	Endangered	
Animalia	Aves	Melithreptus gularis gularis	Black-chinned Honeyeater (eastern subspecies)	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Motacilla flava	Yellow Wagtail	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Neochmia ruficauda	Star Finch	Not Sensitive	Extinct	Endangered	
Animalia	Aves	Neophema chrysogaster	Orange-bellied Parrot	Category 3	Critically Endangered	Critically Endangered	
Animalia	Aves	Neophema chrysostoma	Blue-winged Parrot	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Nettapus coromandelianus	Cotton Pygmy-Goose	Not Sensitive	Endangered	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Numenius madagascariensis	Eastern Curlew	Not Sensitive	Critically Endangered	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius minutus	Little Curlew	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius phaeopus	Whimbrel	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Oceanites oceanicus	Wilson's Storm-Petrel	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Onychoprion fuscatus	Sooty Tern	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Oxyura australis	Blue-billed Duck	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Parvipsitta pusilla	Little Lorikeet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pezoporus wallicus wallicus	Eastern Ground Parrot	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Phaethon lepturus	White-tailed Tropicbird	Not Sensitive	Not Listed	Not Listed	CAMBA;JAMBA
Animalia	Aves	Phaethon rubricauda	Red-tailed Tropicbird	Not Sensitive	Vulnerable	Not Listed	CAMBA;JAMBA
Animalia	Aves	Philomachus pugnax	Ruff	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Phoebetria fusca	Sooty Albatross	Not Sensitive	Vulnerable	Vulnerable	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Pluvialis fulva	Pacific Golden Plover	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Polytelis anthopeplus monarchoides	Regent Parrot (eastern subspecies)	Category 3	Endangered	Vulnerable	
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Category 3	Vulnerable	Vulnerable	
Animalia	Aves	Pterodroma leucoptera leucoptera	Gould's Petrel	Not Sensitive	Vulnerable	Endangered	
Animalia	Aves	Pterodroma neglecta neglecta	Kermadec Petrel (west Pacific subspecies)	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Pterodroma nigripennis	Black-winged Petrel	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pterodroma solandri	Providence Petrel	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Ptilinopus magnificus	Wompoo Fruit-Dove	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Ptilinopus regina	Rose-crowned Fruit-Dove	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Ptilinopus superbus	Superb Fruit-Dove	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Puffinus assimilis	Little Shearwater	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Stercorarius longicaudus	Long-tailed Jaeger	Not Sensitive	Not Listed	Not Listed	CAMBA;JAMBA
Animalia	Aves	Stercorarius maccormicki	South Polar Skua	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Stercorarius parasiticus	Arctic Jaeger	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Stercorarius pomarinus	Pomarine Jaeger	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sterna hirundo	Common Tern	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sternula albifrons	Little Tern	Not Sensitive	Endangered	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Sula dactylatra	Masked Booby	Not Sensitive	Vulnerable	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Sula leucogaster	Brown Booby	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sula sula	Red-footed Booby	Not Sensitive	Not Listed	Not Listed	CAMBA;JAMBA
Animalia	Aves	Thalassarche bulleri	Buller's Albatross	Not Sensitive	Not Listed	Vulnerable	
Animalia	Aves	Thalassarche cauta	Shy Albatross	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Thalassarche chrysostoma	Grey-headed Albatross	Not Sensitive	Not Listed	Endangered	
Animalia	Aves	Thalassarche melanophris	Black-browed Albatross	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Thalasseus bergii	Crested Tern	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Thinornis cucullatus cucullatus	Eastern Hooded Dotterel	Not Sensitive	Critically Endangered	Vulnerable	
Animalia	Aves	Todiramphus chloris	Collared Kingfisher	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Tringa brevipes	Grey-tailed Tattler	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa glareola	Wood Sandpiper	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Tringa incana	Wandering Tattler	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Sensitive	Endangered	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa stagnatilis	Marsh Sandpiper	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Turnix melanogaster	Black-breasted Button-quail	Not Sensitive	Critically Endangered	Vulnerable	
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Xenus cinereus	Terek Sandpiper	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Gastropoda	Meridolum maryae	Maroubra Woodland Snail	Not Sensitive	Endangered	Endangered	
Animalia	Insecta	Petalura gigantea	Giant Dragonfly	Not Sensitive	Endangered	Not Listed	
Animalia	Mammalia	Aepyprymnus rufescens	Rufous Bettong	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Arctocephalus forsteri	New Zealand Fur-seal	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Arctocephalus pusillus doriferus	Australian Fur-seal	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Balaenoptera musculus	Blue Whale	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Cercartetus nanus	Eastern Pygmy-possum	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Not Sensitive	Vulnerable	Endangered	
Animalia	Mammalia	Dasyurus viverrinus	Eastern Quoll	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Dugong dugon	Dugong	Not Sensitive	Endangered	Not Listed	
Animalia	Mammalia	Eubalaena australis	Southern Right Whale	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Macrotis lagotis	Bilby	Not Sensitive	Extinct	Vulnerable	
Animalia	Mammalia	Micronomus norfolkensis	Eastern Coastal Free-tailed Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Miniopterus australis	Little Bent-winged Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Notomys cervinus	Fawn Hopping-mouse	Not Sensitive	Extinct	Not Listed	
Animalia	Mammalia	Notomys mitchellii	Mitchell's Hopping-mouse	Not Sensitive	Extinct	Not Listed	
Animalia	Mammalia	Perameles nasuta	Long-nosed Bandicoot	Not Sensitive	Endangered Population	Not Listed	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Physeter macrocephalus	Sperm Whale	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Pseudomys gracilicaudatus	Eastern Chestnut Mouse	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Pseudomys novaehollandiae	New Holland Mouse	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheathtail-bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Not Sensitive	Vulnerable	Not Listed	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Reptilia	Antaresia childreni	Children's Python	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Aspidites ramsayi	Woma	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Caretta caretta	Loggerhead Turtle	Not Sensitive	Endangered	Endangered	
Animalia	Reptilia	Chelonia mydas	Green Turtle	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Reptilia	Cyclodomorphus melanops elongatus	Mallee Slender Blue-tongue Lizard	Not Sensitive	Endangered	Not Listed	
Animalia	Reptilia	Dermochelys coriacea	Leatherback Turtle	Not Sensitive	Endangered	Endangered	
Animalia	Reptilia	Diplodactylus platyurus	Eastern Fat-tailed Gecko	Not Sensitive	Endangered	Not Listed	
Animalia	Reptilia	Eretmochelys imbricata	Hawksbill Turtle	Not Sensitive	Not Listed	Vulnerable	
Animalia	Reptilia	Eulamprus kosciuskoi	Alpine Water Skink	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Reptilia	Hoplocephalus bitorquatus	Pale-headed Snake	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Tiliqua occipitalis	Western Blue-tongued Lizard	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Uvidicolus sphyrurus	Border Thick-tailed Gecko	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Reptilia	Varanus rosenbergi	Rosenberg's Goanna	Not Sensitive	Vulnerable	Not Listed	
Fungi	Flora	Hygrocybe austropratensis		Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Acacia bynoeana	Bynoe's Wattle	Not Sensitive	Endangered	Vulnerable	
Plantae	Flora	Acacia gordonii		Not Sensitive	Endangered	Endangered	
Plantae	Flora	Acacia pubescens	Downy Wattle	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Acacia terminalis subsp. Eastern Sydney	Sunshine wattle	Not Sensitive	Endangered	Endangered	
Plantae	Flora	Allocasuarina portuensis	Nielsen Park She-oak	Category 3	Endangered	Endangered	
Plantae	Flora	Amperea xiphoclada var. pedicellata		Not Sensitive	Extinct	Extinct	
Plantae	Flora	Caladenia tessellata	Thick Lip Spider Orchid	Category 2	Vulnerable	Vulnerable	
Plantae	Flora	Callistemon linearifolius	Netted Bottle Brush	Category 3	Vulnerable	Not Listed	
Plantae	Flora	Dichanthium setosum	Bluegrass	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Doryanthes palmeri	Giant Spear Lily	Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Eucalyptus camfieldii	Camfield's Stringybark	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Eucalyptus fracta	Broken Back Ironbark	Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Eucalyptus leucoxylon subsp. pruinosa	Yellow Gum	Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Eucalyptus nicholii	Narrow-leaved Black Peppermint	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Eucalyptus pulverulenta	Silver-leafed Gum	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Eucalyptus scoparia	Wallangarra White Gum	Not Sensitive	Endangered	Vulnerable	
Plantae	Flora	Genoplesium baueri	Bauer's Midge Orchid	Category 2	Endangered	Endangered	
Plantae	Flora	Hibbertia puberula		Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Macadamia integrifolia	Macadamia Nut	Not Sensitive	Not Listed	Vulnerable	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Melaleuca deanei	Deane's Paperbark	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Category 3	Endangered	Endangered	
Plantae	Flora	Prostanthera marifolia	Seaforth Mintbush	Category 3	Critically Endangered	Critically Endangered	
Plantae	Flora	Pterostylis sp. Botany Bay	Botany Bay Bearded Orchid	Category 2	Endangered	Endangered	
Plantae	Flora	Rhodamnia rubescens	Scrub Turpentine	Not Sensitive	Critically Endangered	Critically Endangered	
Plantae	Flora	Senecio spathulatus	Coast Groundsel	Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Senna acclinis	Rainforest Cassia	Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Tetratheca juncea	Black-eyed Susan	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Thelymitra atronitida	Black-hooded Sun Orchid	Category 2	Critically Endangered	Not Listed	
Plantae	Flora	Tinospora tinosporoides	Arrow-head Vine	Not Sensitive	Vulnerable	Not Listed	

Source: NSW BioNet Species Sightings

Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading “LC” or “LocConf”. These codes lookup to the following location confidences:

LC Code	Location Confidence
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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Appendix C Historical Land Titles

ABN: 36 092 724 251

Summary of Owners Report

Address: - 68 to 80 Banks Avenue, Pagewood

Description: - Lots 3, 11 & 16 D.P. 35180 & Lot 1 D.P. 527564

As regards to Lots 3, 11 & 16 D.P. 35180

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
	The early Title to these Lands is Crown Title. I am aware of the following.	
18.12.1925	Reserved from Sale or Lease	(Government Gazette 18.12.1925 Folio 5688)
26.02.1947 (1947 to Date)	# The Housing Commission of New South Wales Now # New South Wales Land and Housing Corporation (Resumed for Housing purposes)	(Government Gazette 21.03.1947 Folio 644) Volume 5965 Folio 1 Now Auto Consol 5965-1

 # Denotes Current Registered Proprietor(s)

Easements: - NIL

Leases: - NIL

Continued Over.

As regards to Lot 1 D.P. 527564

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
18.08.1967	This part was formerly a Crown Road subsequently resumed in 1967.	
09.08.1967 (1967 to Date)	# The Housing Commission of New South Wales Now # New South Wales Land and Housing Corporation (Resumed for Housing purposes)	(Government Gazette 18.08.1967 Folio 2984) Volume 10771 Folio 182 Now 1/527564

 # Denotes Current Registered Proprietor(s)

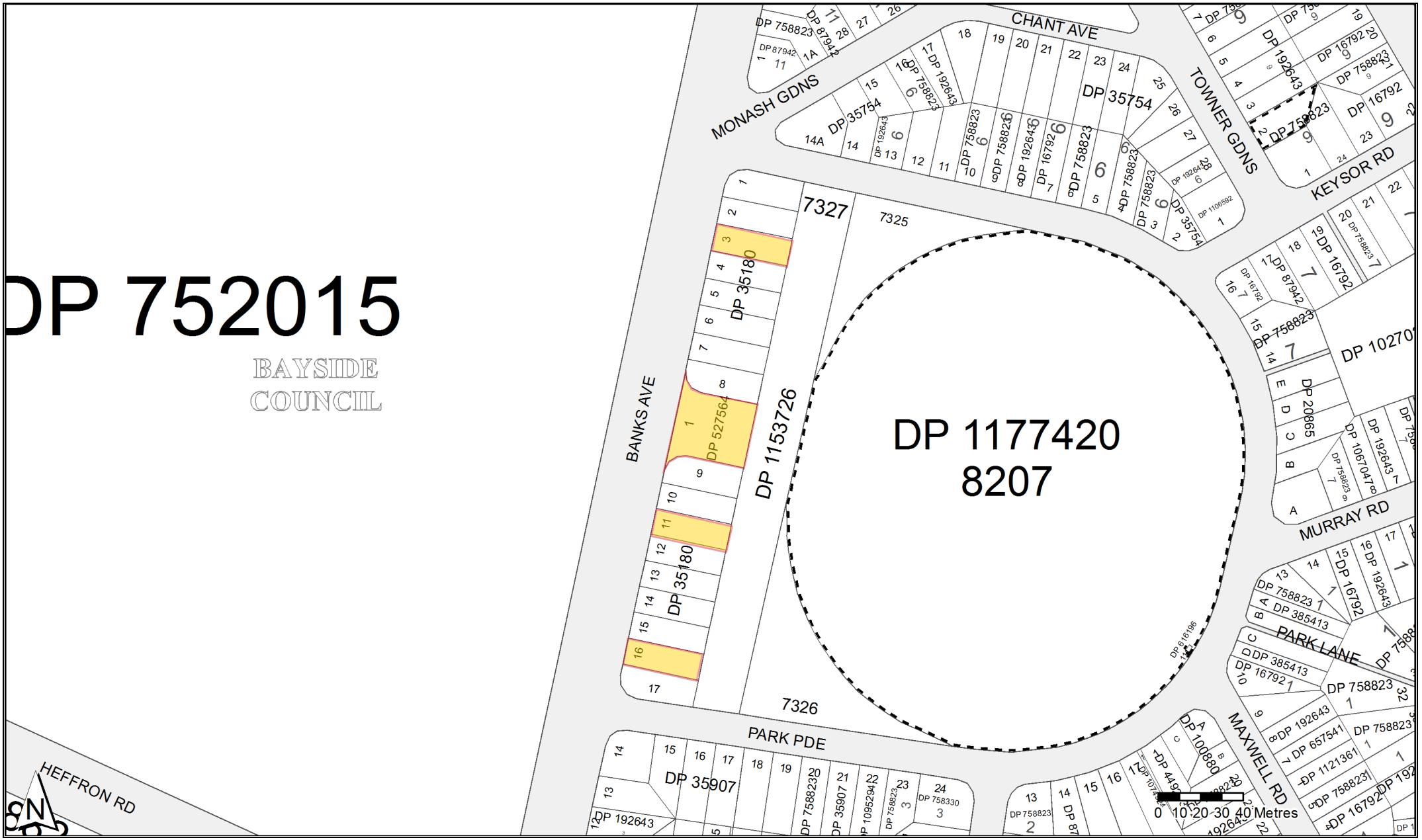
Easements: - NIL

Leases: - NIL

Yours Sincerely
Emily Shackleton
(Checked by Mark Groll)
19 May 2025

Cadastral Records Enquiry Report : Lot 1 DP 527564

Locality : PAGEWOOD
Parish : BOTANY
LGA : BAYSIDE
County : CUMBERLAND



This information is provided as a searching aid only.Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps

Municipality of Botany

PLAN

Secs 4 & 5 Daceyville Extension No 2.

of subdivision of ~~part of the land acquired for Housing Purposes~~ Re-Catalogued

AT PAGEWOOD

F93625 13.10.49

vide Government Gazette of 21st. March, 1947.

PARISH OF BOTANY COUNTY OF CUMBERLAND

Scale: 80 Feet to an Inch.

D.P. 35180 Re-catalogued R.G.B. 20-11-63

Recorded as H.C.P. 180 on 12-7-50

~~Registered:~~

~~C.A.~~

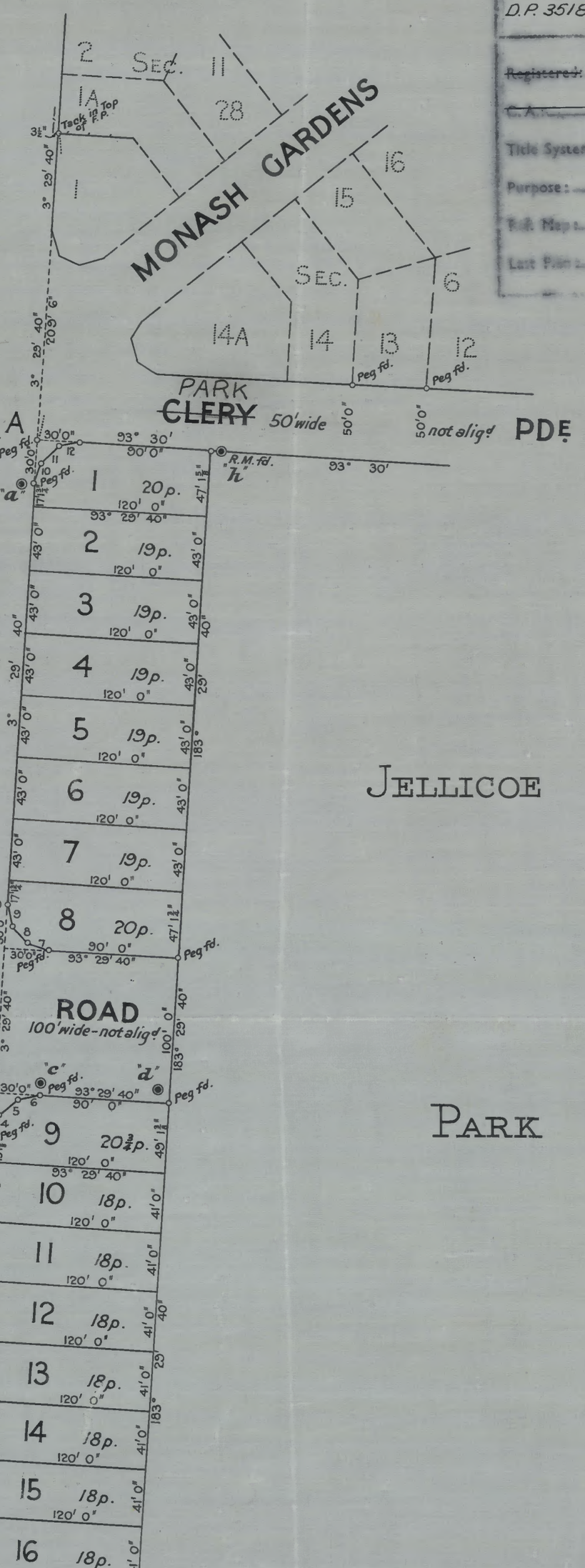
Title System: Torrens

Purpose: Subdivision

T.P. Map: 6348 (4)

Last Plan: "

M M.



Reference to Boundaries

Line No	Bearing	Distance
1	285°35'	16'1½"
2	316°45'	16'1½"
3	347°55'	16'1½"
4	18°30'	15'6⅜"
5	48°30	15'6⅜"
6	78°30'	15'6⅜"
7	288°30'	15'6⅜"
8	318°30'	15'6⅜"
9	348°30'	15'6⅜"
10	18°30'	15'6⅜"
11	48°30'	15'6⅜"
12	78°30'	15'6⅜"

Reference to Corners

No.	Bearing	From	Dist.
a	93°29'40"	G.I.P.	1'6"
b	93°29'40"	G.I.P.	1'6"
c	183°29'40"	G.I.P.	1'6"
d	120°03'30"	G.I.P.	3'4½"
e	93°29'40"	G.I.P.	1'6"
f	93°29'40"	G.I.P.	1'6"
g	270° 00'	Con. Blk.	1'6"
h	273° 30'	G.I.P.	1'6"
i	180° 00'	Con. Blk.	1'6"
j	180°00'	Con. Blk.	1'6"

I, Thomas William Hamilton Dee of 133 Pitt St. Sydney, a Surveyor registered under the Surveyor's Act 1929, do hereby solemnly and sincerely declare (a) that all boundaries and measurements shown on this plan are correct, (b) that all survey marks found and relevant physical objects on or adjacent to the boundaries are correctly represented, (c) that all physical objects indicated actually exist in the positions shown (d) that the whole of the material facts in relation to the land are correctly represented (e) that the survey represented in this plan has been made in accordance with the Survey Practice Regulations 1933 by me, and was completed on 19th. April 1947, and the reference marks and permanent marks have been placed as shown hereon.

And I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act 1900.

(Signature) T.W. Dee

Surveyor Registered under Surveyor's Act 1929

Subscribed and declared before me at Sydney this 21st. day of May, A.D. 1947.

A.K. Campbell J.P. J.P.

Datum Line of Azimuth A-B

L.843 0.19509

DP527564 D 6 23512 ✱ OFFICE USE ONLY.

Form 1

PLAN OF

LAND ACQUIRED FOR HOUSING PURPOSES GOV. GAZ. 18-8-1967 - BEING THE SITE OF A ROAD SHOWN ON D. P. 35180.

D. P. 527564

Registered: 29. 3. 1968

Title System: Old System

Purpose: P A 46088

Ref. Map: Botany Index Sh2

Last Plan: 69484(4)* D.P.35180

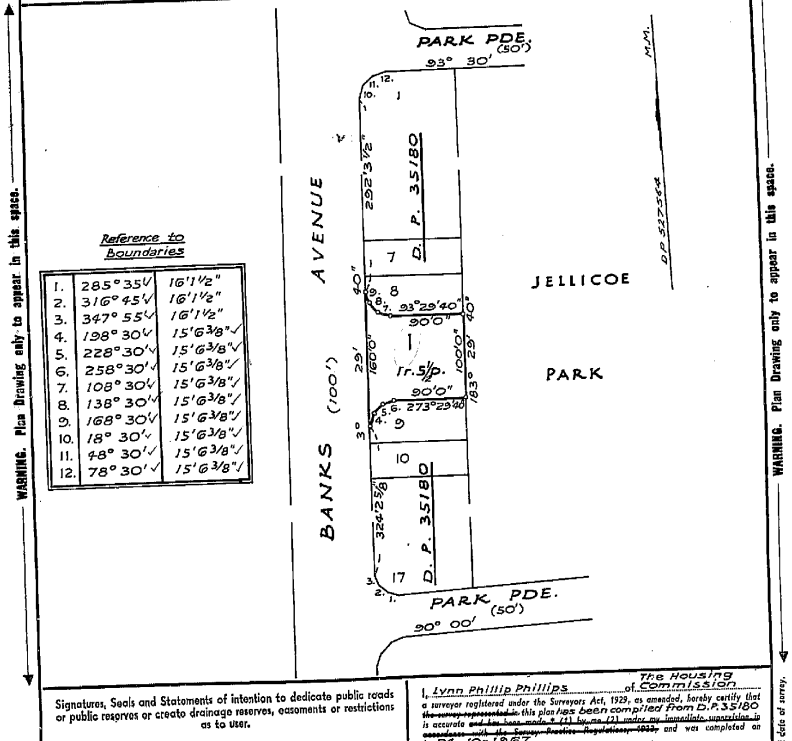
~~Municipality~~ ~~Shire~~ ~~City~~ BOTANY

~~Town or~~ Locality PAGEWOOD

Parish BOTANY

County CUMBERLAND Scale 100 Ft. to an inch.

WARNING. Plan Drawing only to appear in this space.



WARNING. Plan Drawing only to appear in this space.

Reference to Boundaries

1.	285° 35'	16' 1½"
2.	316° 45'	16' 1½"
3.	347° 55'	16' 1½"
4.	198° 30'	15' 6 3/8"
5.	228° 30'	15' 6 3/8"
6.	258° 30'	15' 6 3/8"
7.	108° 30'	15' 6 3/8"
8.	138° 30'	15' 6 3/8"
9.	168° 30'	15' 6 3/8"
10.	18° 30'	15' 6 3/8"
11.	48° 30'	15' 6 3/8"
12.	78° 30'	15' 6 3/8"

Signatures, Seals and Statements of intention to dedicate public roads or public reserves or create drainage reserves, easements or restrictions as to user.

I, Lynn Phillip Phillips of The Housing Commission a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that ~~the survey represented in~~ this plan has been compiled from D.P.35180 ~~is accurate and has been made* (1) by me (2) under my immediate supervision in accordance with the Survey Practice Regulations 1933~~ and was completed on 24-10-1967

Datum Line of Azimuth.

Signature Lynn P Phillips
Surveyor registered under Surveyors Act, 1929, as amended

*Insert date of survey.

I hereby certify that—
(a) the requirements of the Local Government Act, 1919 (other than the requirements for the registration of plans), and
*(b) the requirements of section 34b of the Metropolitan Water, Sewerage and Drainage Act, 1924, as amended
have been complied with by the applicant in relation to the proposed ...(insert "new road" or "subdivision") set out herein.

Subdivision No.

(Signature)
Council Clerk.

Date.

*NOTE—This part of certificate to be deleted where the application is ONLY for the opening of a new road or where the land to be subdivided is wholly outside the area of operations of the Metropolitan Water, Sewerage and Drainage Board.

*Strike out either (1) or (2).

SURVEYOR'S REFERENCE. 152.5. 1055

I. 11074 S.1137

CONVERSION TABLE ADDED IN REGISTRAR GENERAL'S DEPARTMENT

DP 527564

FEET	INCHES	METRES
15	6 3/8	4.734
16	1 1/2	4.915
50	-	15.240
60	-	18.288
90	-	27.432
100	-	30.480
160	-	48.768
292	3 1/2	89.091
324	2 5/8	98.822
324	2 7/8	98.828

AC	RD	P	SQ M
-	1	5 1/2	1151

I, Jack Hayward Watson, Registrar General for New South Wales, certify that this negative is a photograph made as a permanent record of a document in my custody this 17th day of May, 1976.

Jack Watson

Partly Cancelled by C3993-2030

Misc. 12.11635

PLAN

of land to be appropriated under the Housing Act 1912 for

DACEY GARDEN SUBURB

Municipalities of Mascot and Botany

PARISH OF BOTANY COUNTY OF CUMBERLAND

Metropolitan Land District *Land Board District of Sydney*

The area - 336ac 1r 27p - to be appropriated is shewn by red color and red edging Scale 8 Chains to an Inch

Area shewn by red hatching forms part of an area of 267ac 2r 27p resumed 31st May 1911 for Conservation of Water for and in connection with the Preservation of the Botany Dams

Area shewn by blue hatching forms part of an area of 10ac resumed 23rd May 1883 for Sydney Water Supply.

Area shewn by brown color forms part of a Public Road Gazetted 12th July 1911 vide R.10194.1603.

Areas marked thus ϕ comprise severed lands resumed under the Public Roads Act 1902 in connection with road shewn on R.10194.1603 and are now Crown Land

The remainder of the land comprises unappropriated Crown Land.

Resumed and appropriated under the Housing Act 1912 (N°7) on the 25th Sept^r 1912 (Abt 4ac 2r 14p) Withdrawn from the Administration of the Housing Amend^t) Act 1924 vide Gaz. 1st April 1926. & reserved from sale (Lease) Pt within Sp L34-104 Rav'd 24.5.34

Certificate of Title Vol. 3760 fol. 214 for 42 ac. 2r. 14p. cancelled vide Sales 26. 9428

~~Pt in Sp. Lse. 34-104 William Fraser Dunn~~

① 2ac. 1r. 1½p. appropriated for Housing Purposes. Gaz. 24.8.45 vide. M^s 11935 Sy.

② Confirmatory Grant Minister for Local Govt. 27ac 3r. Vol. 3844 Fol. 8. Ms 6458 Sy R

③ Streets, Roads etc. in Dacey Garden Suburb, Dedicated as Public Roads 19th June 1925. Ms 6458 Sy R

④ Confirmatory Grant The Most Reverend Michael Kelly and Others 3r. 28p. Vol. 3238 Fol 23 Ms 5412 Sy.

⑤ Confirmatory Grant Minister for Local Government Ms 6391 Sy.

Comprises the area ABCD - Shown by Blue edge & Red hatching

5	Areas shown by Green edge	Withdrawn from Control of Minister (Under Housing Act) & R fm Sor L. Gaz	15.2.27
1	Area (F) " Purple " Ms 6743 Sy	" " " " " " " " " " " "	10.12.26
1	" " " Hatching " " " " " " " " " " " "		2.12.27
1	" (O) " Orange Edge " " " " " " " " " " " "		1-9-1939
1	" " " Hatching " " " " " " " " " " " "		7-11-1941
1	" " Green Hatching " " " " " " " " " " " "		19-10-1945

Part of Por. 151. T. W. M. Winders 417acs Gt

Resumed for Sydney 90·00'

Water Supply 23rd May 1883 10ac C. 29.2.63 L.F.

Municipality of Mascot

Municipality of Botany

PARISH OF ALEXANDRIA

Randwick

RAINBOW ST

BROAD WAY

ANZAC PARADE

Tram line ROAD to La Perouse

GARDENERS ROAD

BUNNERONG ROAD

MAROUBRA BAY ROAD

ROAD 100 WIDE

ROAD 150 WIDE

ROAD 30 WIDE

PUBLIC ROAD

RED TINT

RED HATCHING

GREEN HATCHING

ORANGE HATCHING

Ms 6458 Sy R

Ms 4531 Sy R

Ms 3833 Sy R

Ms 3882 Sy R

Ms 5217 Sy R

Ms 5166 Sy R

Ms 4338 Sy R

Ms 5412 Sy

Ms 5183 Sy

Ms 7643 Sy

Ms 6743 Sy.

Ms 11941 Sy

Ms 11935 Sy

Cancelled by C6191-2030 R

Cancelled by Plans. C-5538-5601 2030

Cancelled by C3993-2030

151 PH

T. W. M. Winder

RED TINT (42ac 2r 14p)

Todman

C F 2r 27p ACW

31st May 1911

267ac

417ac

336ac 1r 27p inc of Public Roads

Resumed for the Conservation of Water for and in connection with the Preservation of the Botany Dams

ϕ

UVWXYZ Parts within this Area Withdrawn & R fm Sor L Gaz. 18-12-1925 & 28-1-1927. See Ms. 8184 to 8198 Sy Rolls (etc)

Grant

Crown Land

from Banks' Meadow

R.10194.1603r

Azimuth taken from road survey. R.10194.1603

Field Book Vol. 7559 Fols. 38

NOTE:- Bearings & distances shewn in red are derived from plans R10194.1603 & Ms 5217 Sy.

A/c. 12.38 passed. Col. Book. A.142. Fol. 61

Checked & Charted

Examined & Plan Approved.

Draftsman in Charge 17th July 1912

Transmitted to the District Surveyor with my letter of the 13th July N°12-46

S. B. Madsen

Licensed Surveyor.

3811-3000

Ms 3811 Sy

BOTANY MUNICIPALITY

Papers: Ms. 19/10673.

PLAN

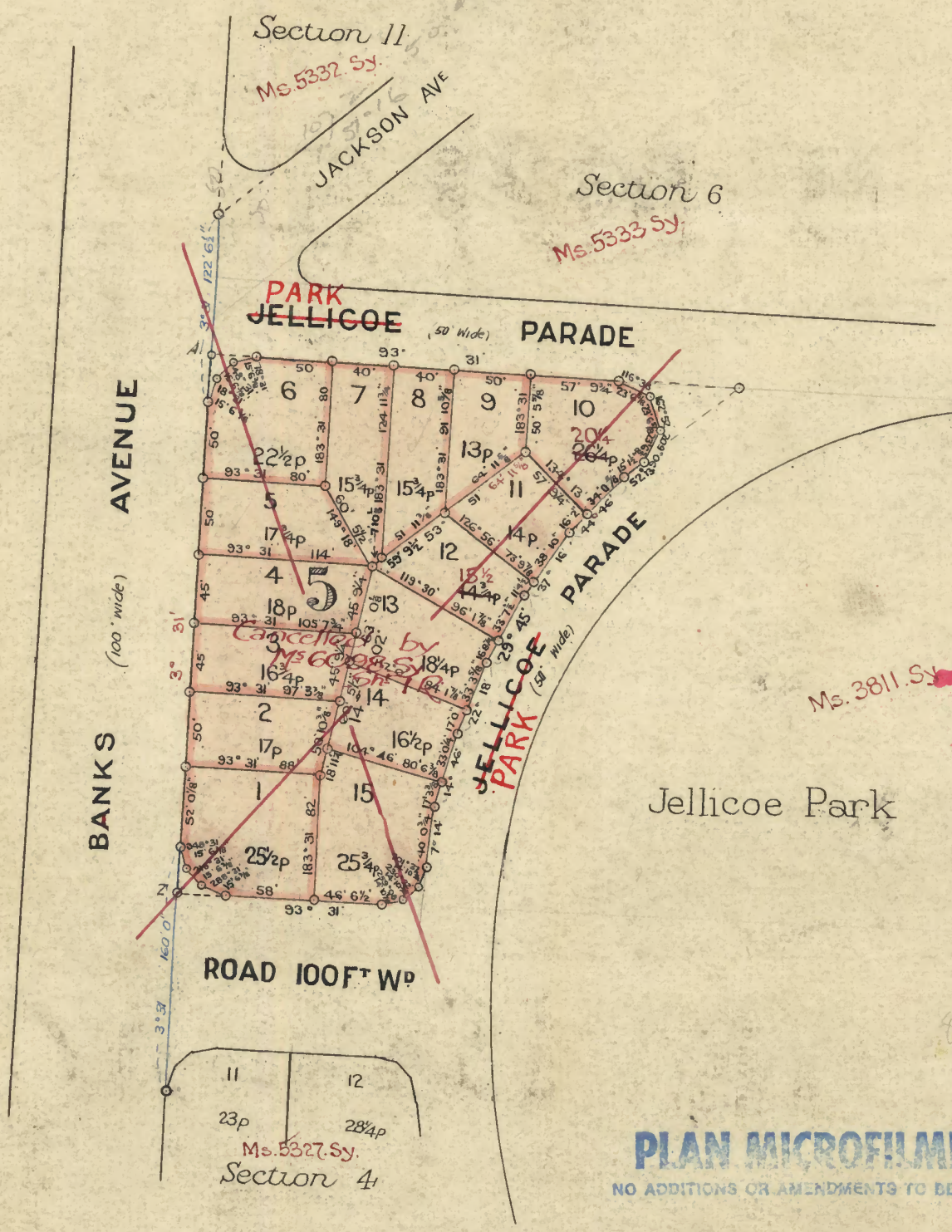
of subdivision of Section 5 Dacey Garden Suburb

Parish of Botany County of Cumberland

Metropolitan Land District

Scale 100 feet to an inch

Within the Population Area of Sydney Proclaimed 22nd April 1886.
Notified as Suburban to the City of Sydney 21st May, 1898.
Within an area resumed and appropriated under the Housing Act, 1912 (No 7) 25th Sept. 1912.



PLAN MICROFILMED
NO ADDITIONS OR AMENDMENTS TO BE MADE

Transmitted to the Metropolitan District Surveyor with my letter of 13th Oct. '19 No. 53.

S. J. Arnkein Surveyor

Azimuth taken from AZ
Field Book Vol. 9456 fol. 69
Date of survey 16th August 1919.

Calcn Bk C.288. Folios 80 to 84 a.d.
Checked & charted:
Examined & Plan approved:
21/11/19

C. Edwards
Draftsman-in-Charge
Assessed
Dec. 1919.

5328-3000

Ms. 5328 Sy.

BOTANY MUNICIPALITY

Papers: Ms. 19/10674.

PLAN

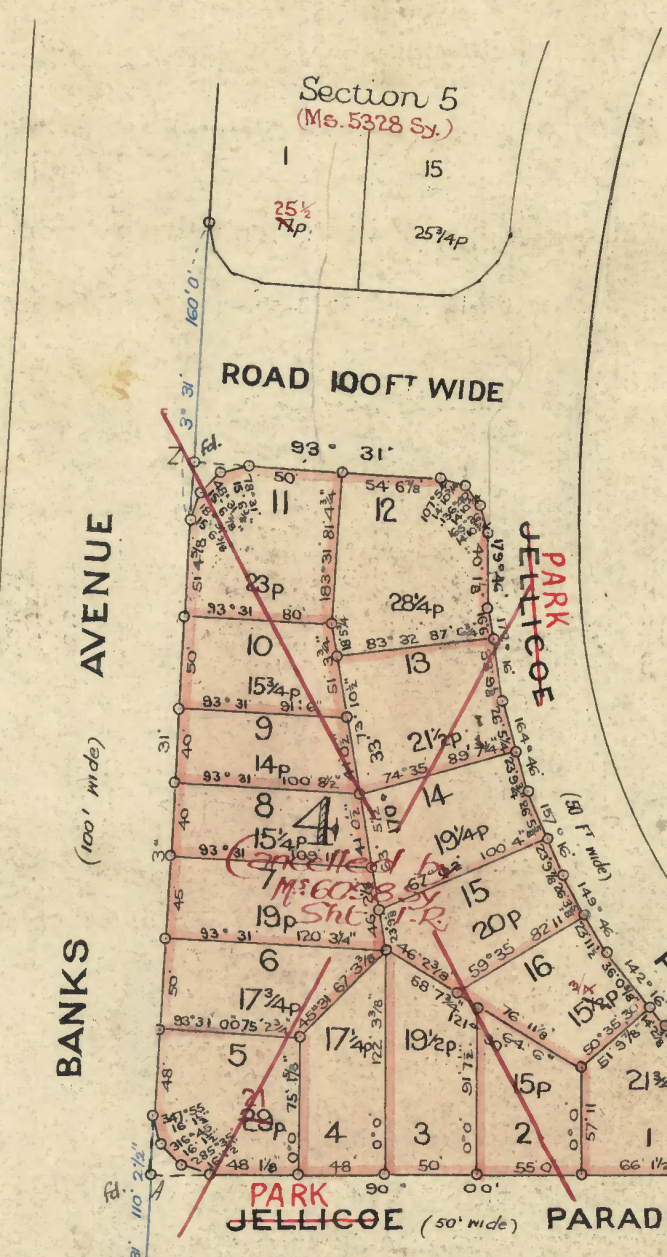
of subdivision of Section 4. Dacey Garden Suburb

Parish of Botany County of Cumberland

Metropolitan Land District

Scale 100 feet to an inch

Within the Population Area of Sydney Proclaimed 22nd April, 1886.
Notified as Suburban to the City of Sydney, 21st May, 1898.
Within an area resumed and appropriated under the Housing Act, 1912, (No 7) 25th Sept. 1912.



Azimuth taken from A Z
Field Book Vol. 3456 Fol. 65
Date of survey 16th Aug. 1919.

Transmitted to the Metropolitan District Surveyor with my letter of 13th Oct. 19 No 52

S. F. Arnheim Surveyor.

Calcs Bk C378 Fols 39 to 43 E Quinn 29/12/19

Checked & charted: Arnheim Jones 31/12/19

Examined & Plan approved.

C. Edwards
Draftsman-in-Charge

24th Dec. 1919.

Assessed

5327-3000

Ms. 5327. Sy.

Works Act, 1912, as amended, for the purpose aforesaid; and it is hereby further notified that the said easement or right is vested in the Metropolitan Water, Sewerage and Drainage Board.

Dated at Sydney, this 9th day of August, 1967.

A. R. CUTLER, Governor.

By His Excellency's Command,

DAVIS HUGHES, Minister for Public Works.

SCHEDULE

All that piece or parcel of land containing 2¼ perches or thereabouts in the Municipality of Blacktown, Parish of St John, County of Cumberland and State of New South Wales, being part of lot 47, Deposited Plan 219,495, and being part of the land comprised in Certificate of Title, volume 9,609, folio 206: Commencing on the western boundary of lot 47, Deposited Plan 219,495 at a point which bears 3 degrees 39 minutes 20 seconds 86 feet 11 inches from the intersection of that western boundary with a northern alignment of Barnetts Road, and bounded thence on the west by part of the aforesaid western boundary bearing 3 degrees 39 minutes 20 seconds 33 feet 1 inch to the northwestern corner of the aforesaid lot 47, thence on the north by part of the northern boundary of that lot bearing 93 degrees 39 minutes 20 seconds 38 feet 0¼ inch, and thence on the southeast by a line bearing 232 degrees 39 minutes 50 feet 5 inches to the point of commencement.

All bearings are relative to the Magnetic Meridian.

The above parcel of land is said to be in the possession of R. W. and F. Williams and as shown on plan catalogued number 543,205 in the Metropolitan Water, Sewerage and Drainage Board, Sydney. (Misc. 67-8,251) (7452)

METROPOLITAN WATER, SEWERAGE, AND DRAINAGE ACT, 1924, AS AMENDED

MAINTENANCE AND PROTECTION OF THE KOGARAH ROAD SUBMAIN AT ROCKDALE

Acquisition of Easement

APPLICATION by the Metropolitan Water, Sewerage and Drainage Board having been made that an easement or right to use in any manner for the construction and maintenance of works the surface of the land and the subsoil or undersurface of the land and without limiting the generality of these purposes to use any of the strata beneath the surface of the land described in the Schedule hereto for tunnels or pipes for the conveyance of sewage to be appropriated or resumed, it is hereby notified and declared by His Excellency the Governor, acting with the advice of the Executive Council, and by the Minister for Public Works, that an easement or right as aforesaid over so much of the said land as is crown land is hereby appropriated and an easement or right as aforesaid over so much of the said land as is private property is hereby resumed under Division 1 of Part V of the Public Works Act, 1912, as amended, for the purpose aforesaid; and it is hereby further notified that the said easement or right is vested in the Metropolitan Water, Sewerage and Drainage Board.

Dated at Sydney, this 9th day of August, 1967.

A. R. CUTLER, Governor.

By His Excellency's Command,

DAVIS HUGHES, Minister for Public Works.

SCHEDULE

All that piece or parcel of land containing 2¼ perches or thereabouts in the Municipality of Rockdale, Parish of St George, County of Cumberland, and State of New South Wales, being part of the land in Certificate of Title, volume 6,418, folio 211, being part of lot 2 in Deposited Plan 1,526, and being part of the proposed easement 20 feet wide as shown on Deposited Plan 227,441.

The above parcel of land is said to be in the possession of O. B. and M. Berntsson as shown on plan catalogued No. 729,103, in the Metropolitan Water Sewerage and Drainage Board, Sydney. (Misc. 67-8,235). (7456)

METROPOLITAN WATER, SEWERAGE, AND DRAINAGE ACT, 1924, AS AMENDED

MAINTENANCE AND PROTECTION OF THE ERMINGTON SEWER SUBMAIN AT ERMINGTON

Acquisition of Easement

APPLICATION by the Metropolitan Water Sewerage and Drainage Board having been made that an easement or right to use in any manner for the construction and maintenance of works the surface of the land the subsoil or undersurface of the land and without limiting the generality of the foregoing purposes to use any of the strata beneath the surface of the land described in the Schedule hereto for the construction and maintenance of tunnels or pipes for the conveyance of sewage, be appropriated or resumed, it is hereby notified and declared by His Excellency the Governor, acting with the advice of the Executive Council, and by the Minister for Public Works, that an easement or right as aforesaid over so much of the said land as is Crown land is hereby appropriated and an easement or right as aforesaid over so much of the said land as is private property is hereby resumed under Division 1 of Part V of the Public Works Act, 1912, as amended, for the purposes aforesaid; and it is hereby further notified that the said easement or right is vested in the Metropolitan Water Sewerage and Drainage Board.

Dated at Sydney, this 9th day of August, 1967.

A. R. CUTLER, Governor.

By His Excellency's Command,

DAVIS HUGHES, Minister for Public Works.

SCHEDULE

All that piece or parcel of land containing 3 perches or thereabouts, in the City of Parramatta, Parish of Field of Mars, County of Cumberland, and State of New South Wales, being part of the land comprised in Certificate of Title, volume 10,024, folio 163, and being part of the proposed easement 16 feet wide shown on Deposited Plan 232,229.

The above parcel of land is said to be in the possession of D. B. Clark and as shown on plan catalogued number 718,108, in the Metropolitan Water, Sewerage and Drainage Board, Sydney. (Misc. 67-8,317) (7783)

HOUSING ACT, 1912, AS AMENDED.—PUBLIC WORKS ACT, 1912, AS AMENDED

ACQUISITION OF LAND FOR HOUSING PURPOSES (HOUSING SCHEME AT PAGEWOOD, NEW SOUTH WALES)

IT is hereby notified and declared by His Excellency the Governor, acting with the advice of the Executive Council, that in pursuance of the provisions of section 4 of the Housing Act, 1912, as amended, as affected by the Housing Act, 1941, as amended, so much of the lands described in the Schedule hereunder as is crown land is hereby appropriated, and so much of the said lands as is private property is hereby resumed, under the Public Works Act, 1912, as amended, for the purposes of the Housing Act, 1912, as amended, including all such mines and deposits under the said lands as are mentioned in section 141 of the said Public Works Act, 1912, and that the said lands are vested in the Housing Commission of New South Wales. (L.A. 53-629—Schedule 4,364)

SCHEDULE

All that piece or parcel of land situate in the Municipality of Botany, Parish of Botany, County of Cumberland, being the site of a road 100 feet wide shown on Deposited Plan No. 35,180: Commencing at the southeastern corner of lot 8 shown in Deposited Plan No. 35,180; and bounded thence on the east by part of the western boundary of Jellico Park southerly to the northeastern corner of lot 9 shown in the said Deposited Plan No. 35,180; on the south and southeast respectively by the northern boundary and the northwestern boundaries of that lot 9 westerly and southwesterly to the eastern side of Banks Avenue; on the west by that side of Banks Avenue northerly to the westernmost corner of the aforesaid lot 8 shown in that plan; and on the northeast and north respectively by the southwestern boundaries and the southern boundary of that lot southeasterly and easterly to the point of commencement, having an area of 1 rood 5 perches or thereabouts and said to be in the possession of the Council of the Municipality of Botany.

Dated at Sydney, this 9th day of August, 1967.

A. R. CUTLER, Governor.

By His Excellency's Command,

(225) S. T. STEPHENS, Minister for Housing.

HOUSING ACT, 1912, AS AMENDED.—PUBLIC WORKS ACT, 1912, AS AMENDED

ACQUISITION OF LAND FOR HOUSING PURPOSES (HOUSING SCHEME AT EDEN, NEW SOUTH WALES)

IT is hereby notified and declared by His Excellency the Governor, acting with the advice of the Executive Council, that in pursuance of the provisions of section 4 of the Housing Act, 1912, as amended, as affected by the Housing Act, 1941, as amended, so much of the lands described in the Schedule hereunder as is crown land is hereby appropriated, and so much of the said lands as is private property is hereby resumed, under the Public Works Act, 1912, as amended, for the purposes of the Housing Act, 1912, as amended, including all such

10771182

NEW SOUTH WALES

[redacted]ICATE OF TITLE

[redacted]PERTY ACT, 1900, as amended.

Application No.46088

Vol. 10771 Fol. 182

MA Edition issued 3 - 4 - 1968

(Page 1) Vol. 10771 Fol. 182

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

Witness M Flint

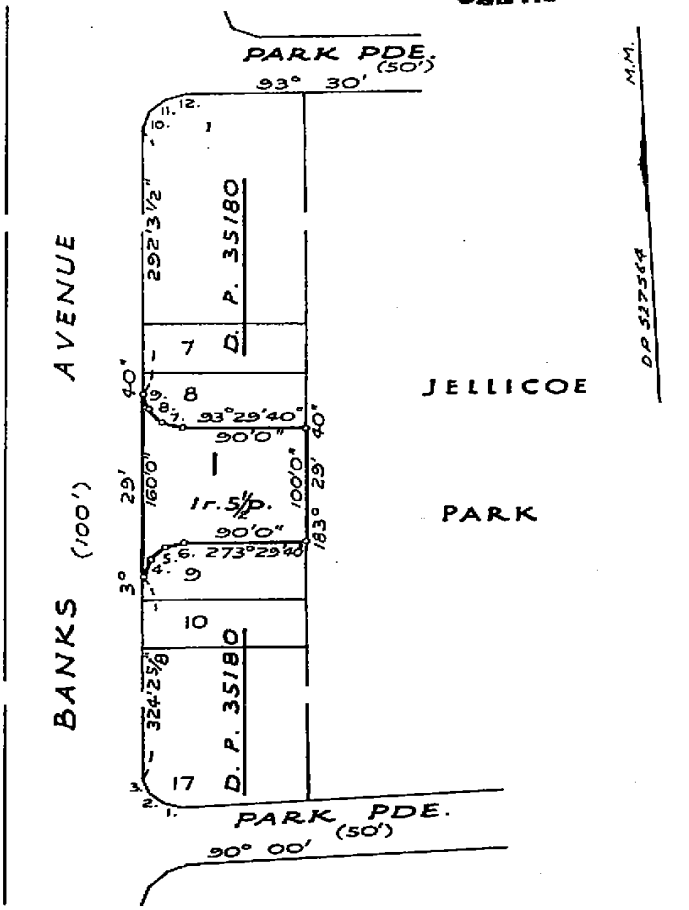
CANCELLED

Registrar General.

REGISTRAR GENERAL NEW SOUTH WALES

PLAN SHOWING LOCATION OF LAND

SEE AUTO FOLIO



Reference to Boundaries

1.	285° 35'	16'1½"
2.	316° 45'	16'1½"
3.	347° 55'	16'1½"
4.	198° 30'	15'6⅜"
5.	228° 30'	15'6⅜"
6.	258° 30'	15'6⅜"
7.	108° 30'	15'6⅜"
8.	138° 30'	15'6⅜"
9.	168° 30'	15'6⅜"
10.	18° 30'	15'6⅜"
11.	48° 30'	15'6⅜"
12.	78° 30'	15'6⅜"

ESTATE AND LAND REFERRED TO

S

Estate in Fee Simple in Lot 1 in Deposited Plan 527564 at Pagewood in the Municipality of Botany Parish of Botany and County of Cumberland being land for which no Crown Grant has issued.

FIRST SCHEDULE (continued overleaf)

THE HOUSING COMMISSION OF NEW SOUTH WALES.

GRN

SECOND SCHEDULE (continued overleaf)

NIL.

Registrar General.

V. C. N. BLIGHT, GOVERNMENT PRINTER

Vol. 10771 Fol 182

FIRST SCHEDULE (continued)

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

CANCELLED

SEE AUTO FOLIO

SECOND SCHEDULE (continued)

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

(Page 2 of 2 pages)

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

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 1/527564

SEARCH DATE	TIME	EDITION NO	DATE
19/5/2025	7:52 AM	-	-

VOL 10771 FOL 182 IS THE CURRENT CERTIFICATE OF TITLE

LAND

LOT 1 IN DEPOSITED PLAN 527564
AT PAGEWOOD
LOCAL GOVERNMENT AREA BAYSIDE
PARISH OF BOTANY COUNTY OF CUMBERLAND
TITLE DIAGRAM DP527564

FIRST SCHEDULE

NEW SOUTH WALES LAND AND HOUSING CORPORATION

SECOND SCHEDULE (0 NOTIFICATIONS)

NIL

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

further notified that the capital value upon which rental shall be lodged shall be as hereunder specified. Any additional holding acquired shall be subject to the same conditions (where applicable) which attach to the particular original holding in virtue of which the additional holding was applied for.

Note.—All information may be obtained from and all forms of application will be filled in by the Crown Lands Agent free of cost if so desired by the applicant.

P. F. LOUGHLIN, Minister for Lands.

EASTERN DIVISION.

Land District of Tamworth, and Manilla Shire.

Capital Value, £20 per acre.

County of Darling, parish of Manilla, containing an area of 2 acres. The Crown lands within the boundaries of portion 244. Plan D. 3,708-1,808.

Note.—The included part of Suburban Holding Area 1,217, notified 26th November, 1920, together with covering reserve from sale and lease under section 206, is hereby revoked.

[Ms. 1925-12,522]

[3404] Sydney, 18th December, 1925.

REVOCATION OF RESERVE FROM SALE OR LEASE.

IT is hereby notified, for public information, that under the provisions of the Crown Lands Consolidation Act, 1913, the reserve from sale or lease hereunder described is hereby revoked.

P. F. LOUGHLIN, Minister for Lands.

EASTERN DIVISION.

Metropolitan Land District, and Botany Municipality.

Purpose: From sale or lease.

Date of notification, 18th December, 1925.

County Cumberland, parish Botany.

Part revoked.—The whole, being the areas withdrawn from the control of the Housing Board this day.

Plan Ms. 6,098 Sy. Sheets 1 and 2.

[Papers—Ms. 1925-13,954]

[3381] Sydney, 18th December, 1925.

NOTIFICATION SETTING APART CROWN LANDS FOR ADDITIONAL CONDITIONAL PURCHASES, CONDITIONAL LEASES, ADDITIONAL CONDITIONAL PURCHASE LEASES, ADDITIONAL HOMESTEAD SELECTIONS, ADDITIONAL HOMESTEAD FARMS, ADDITIONAL SETTLEMENT LEASES, OR ADDITIONAL CROWN-LEASES.

IT is hereby notified that, in pursuance of the provisions of section 85 of the Crown Lands Consolidation Act, 1913, the Crown Lands comprised within the areas hereunder described are hereby set apart for additional conditional purchases or conditional leases (not being conditional leases taken up in virtue of and at the same time as original conditional purchases within the same area), additional conditional purchase leases, additional homestead selections, additional homestead farms, additional settlement leases, or additional Crown-leases, and shall become and be available therefor on and after the 18th January, 1926. It is further notified that the price of the land for additional conditional purchase, or the capital value upon which provisional rentals (where required) shall be lodged shall be as hereinafter specified, except that the provisional rental to be lodged with an application for a conditional lease or an additional settlement lease shall be 2d. per acre. Any additional holding acquired shall be subject to the same conditions (if any and where applicable) which attach to the particular original holding in virtue of which the additional holding was applied for.

Note.—All information may be obtained from, and all forms of application will be filled in by, the Crown Lands Agent, free of cost, if so desired by the applicant.

P. F. LOUGHLIN, Minister for Lands.

CENTRAL DIVISION.

Land District of Narrabri, and Namoi Shire.

Price and capital value, 6s. 8d. per acre.

County of Nandewar, parish of Bollol, containing an area of 963 acres. The Crown Lands within the boundaries of measured portions 24 and 25. Plans N. 2,204 and 2,205-1,774.

Note.—The covering classifications of 13th March, 1912, and 12th September, 1919, setting the land apart for C.P. and additionals, and the automatic reservations under section 206, are hereby revoked.

[Ms. 1925-13,092]

[3405] Water Conservation and Irrigation Commission's Office, Sydney, 18th December, 1925.

REVOCATION OF RESERVE FROM SALE OR LEASE.

IT is hereby notified, for public information, that under the provisions of section 30 of the Crown Lands Consolidation Act, 1913, and the third section of the Irrigation (Amendment) Act, 1916, as amended by the fourth section of the Irrigation (Amendment) Act, 1918, the reserve from sale or lease hereunder described is hereby revoked, but such revocation shall not take effect until after the expiration of sixty days from the above date.

W. F. DUNN, Minister for Agriculture.

CENTRAL DIVISION.

Land District of Yanco.

County of Cooper, parishes of Willimbong and Yarangery, an area of 13 acres 1 rood 24 perches, being the whole of Reserve No. 57,753 from sale or lease, notified 30th January, 1925, containing allotments 1 to 17 inclusive, section 5; allotments 11 and 12, section 43; allotment 19, section 44; allotments 8 and 9, section 46; allotments 23 to 30 inclusive, section 4; allotments 1 to 17 inclusive, section 49; allotment 24, section 48, town of Leeton, and blocks 325 to 328 inclusive, 183 to 189 inclusive, and 191 and 192, village of Yanco. Plans Leeton 65 Roll, 66, 67, 45, 46, 48, 64, 71, 72, 62, C. 3,205, 3,203, 3,036, 2,035-1,804.

[M.I.S. 1925-C. 6,039; W.C. & I.C. 1925-6,195]

HOUSING ACT, 1912, AS AMENDED.—PUBLIC WORKS ACT, 1912, AS AMENDED.

ACQUISITION OF LAND FOR HOUSING PURPOSES (HOUSING SCHEME AT PAGEWOOD, NEW SOUTH WALES).

IT is hereby notified and declared by His Excellency the Governor, acting with the advice of the Executive Council, that in pursuance of the provisions of section 4 of the Housing Act, 1912, as amended by subsequent Acts, and as affected by the Housing Act, 1941, so much of the lands described in the Schedule hereunder as is Crown land is hereby appropriated, and so much of the said lands as is private property is hereby resumed, under the Public Works Act, 1912, as amended, for the purposes of the Housing Act, 1912, as amended, including all such mines and deposits under the said lands as are mentioned in section 141 of the said Public Works Act, 1912, and that the said lands are vested in The Housing Commission of New South Wales. (47-24,191—Schedule 632)

SCHEDULE.

All that piece or parcel of Crown land situate in the Municipality of Botany, parish of Botany, county of Cumberland, being section 4 of the Crown subdivision known as Daceyville Extension No. 2: Commencing on the northern side of Warren-parade at the south-western corner of Jellicoe Park, shown in plan catalogued Misc. 11,883 Sy. in the Department of Lands, Sydney; and bounded thence on the south by that side of Warren-parade bearing west 88 feet 4½ inches; on the south-west by lines successively bearing 285 degrees 35 minutes 16 feet 1½ inches, 316 degrees 45 minutes 16 feet 1½ inches and 347 degrees 55 minutes 16 feet 1½ inches to the eastern side of Banks-avenue; on the west by that side of Banks-avenue bearing 3 degrees 29 minutes 40 seconds 324 feet 2¾ inches; on the north-west by lines successively bearing 18 degrees 30 minutes 15 feet 6¾ inches, 48 degrees 30 minutes 15 feet 6¾ inches and 78 degrees 30 minutes 15 feet 6¾ inches to the southern side of an unnamed road, 100 feet wide, separating section 4 from section 5; on the north by that side of that road bearing 93 degrees 29 minutes 40 seconds 90 feet to the western boundary of Jellicoe Park aforesaid; and on the east by that lastmentioned boundary bearing 183 degrees 29 minutes 40 seconds 378 feet 9¾ inches to the point of commencement,—having an area of 1 acre 6¾ perches or thereabouts.

Also, all that piece or parcel of Crown land situate as aforesaid, being section 5 of the Crown subdivision known as Daceyville Extension No. 2: Commencing on the southern side of Clery-parade at the north-western corner of Jellicoe Park, shown in plan catalogued Ms. 11,883 Sy. in the Department of Lands, Sydney; and bounded thence on the east by the westernmost boundary of that park bearing 183 degrees 29 minutes 40 seconds 352 feet 3¾ inches to the northern side of an unnamed road, 100 feet wide, separating section 4 from section 5; on the south by that side of that road bearing 273 degrees 29 minutes 40 seconds 90 feet; on the south-west by lines successively bearing 288 degrees 30 minutes 15 feet 6¾ inches, 318 degrees 30 minutes 15 feet 6¾ inches and 348 degrees 30 minutes 15 feet 6¾ inches to the eastern side of Banks-avenue; on the west by that side of Banks-avenue bearing 3 degrees 29 minutes 40 seconds 292 feet 3½ inches; on the north-west by lines successively bearing 18 degrees 30 minutes 15 feet 6¾ inches, 48 degrees 30 minutes 15 feet 6¾ inches and 78 degrees 30 minutes 15 feet 6¾ inches to the aforesaid southern side of Clery-parade; and on the north by that side of Clery-parade bearing 93 degrees 30 minutes 90 feet to the point of commencement,—having an area of 3 roods 33½ perches or thereabouts.

Dated at Sydney, this 26th day of February, 1947.

(L.S.) J. NORTHCOTT, Governor.

By His Excellency's Command,

(3627) CLIVE EVATT, Minister for Housing.

HOUSING ACT, 1912, AS AMENDED.—PUBLIC WORKS ACT, 1912, AS AMENDED.

ACQUISITION OF LAND FOR HOUSING PURPOSES (HOUSING SCHEME AT PADSTOW, NEW SOUTH WALES).

IT is hereby notified and declared by His Excellency the Governor, acting with the advice of the Executive Council, that in pursuance of the provisions of section 4 of the Housing Act, 1912, as amended by subsequent Acts, and as affected by the Housing Act, 1941, so much of the lands described in the Schedule hereunder as is Crown land is hereby appropriated, and so much of the said lands as is private property is hereby resumed, under the Public Work Act, 1912, as amended, for the purposes of the Housing Act, 1912, as amended, including all such mines and deposits under the said lands as are mentioned in section 141 of the said Public Works Act, 1912, and that the said lands are vested in The Housing Commission of New South Wales. (46-20,932—Schedule 603)

SCHEDULE.

All that piece or parcel of land situate in the Municipality of Bankstown, parish of Bankstown, county of Cumberland, being lot numbered 58, shown in deposited plan No. 15,882,—and said to be in the possession of Home Provident Association Limited (In Liquidation).

Dated at Sydney, this 26th day of February, 1947.

(L.S.) J. NORTHCOTT, Governor.

By His Excellency's Command,

(3628) CLIVE EVATT, Minister for Housing.

HOUSING ACT, 1912, AS AMENDED.—PUBLIC WORKS ACT, 1912, AS AMENDED.

ACQUISITION OF LAND FOR HOUSING PURPOSES (HOUSING SCHEME AT BERALA, NEW SOUTH WALES).

IT is hereby notified and declared by His Excellency the Governor, acting with the advice of the Executive Council, that in pursuance of the provisions of section 4 of the Housing Act, 1912, as amended by subsequent Acts, and as affected by the Housing Act, 1941, so much of the lands described in the Schedule hereunder as is Crown land is hereby appropriated, and so much of the said lands as is private property is hereby resumed, under the Public Works Act, 1912, as amended, for the purposes of the Housing Act, 1912, as amended, including all such mines and deposits under the said lands as are mentioned in section 141 of the said Public Works Act, 1912, and that the said lands are vested in The Housing Commission of New South Wales. (46-18,796—Schedule 622)

SCHEDULE.

All that piece or parcel of land situate in the Municipality of Lidcombe, parish of Liberty Plains, county of Cumberland, being lots numbered 2, 4 and 6, shown in deposited plan No. 621,—and said to be in the possession of Albert E. Lonsdale.

Dated at Sydney, this 26th day of February, 1947.

(L.S.) J. NORTHCOTT, Governor.

By His Excellency's Command,

(3408) CLIVE EVATT, Minister for Housing.

HOUSING ACT, 1912, AS AMENDED.—PUBLIC WORKS ACT, 1912, AS AMENDED.

ACQUISITION OF LAND FOR HOUSING PURPOSES (HOUSING SCHEME AT MAYS HILL, NEW SOUTH WALES).

IT is hereby notified and declared by His Excellency the Governor, acting with the advice of the Executive Council, that in pursuance of the provisions of section 4 of the Housing Act, 1912, as amended by subsequent Acts, and as affected by the Housing Act, 1941, so much of the lands described in the Schedule hereunder as is Crown land is hereby appropriated, and so much of the said lands as is private property is hereby resumed, under the Public Works Act, 1912, as amended, for the purposes of the Housing Act, 1912, as amended, including all such mines and deposits under the said lands as are mentioned in section 141 of the said Public Works Act, 1912, and that the said lands are vested in The Housing Commission of New South Wales. (46-21,192—Schedule 627)

SCHEDULE.

All that piece or parcel of land situate in the Municipality of Holroyd, parish of St. John, county of Cumberland, being lot numbered 121, shown in deposited plan No. 12,899,—and said to be in the possession of Miss Ellen Hurford.

Dated at Sydney, this 19th day of February, 1947.

(L.S.) F. R. JORDAN,

By Deputation from His Excellency the Governor.

By His Excellency's Command,

(3409) CLIVE EVATT, Minister for Housing.

HOUSING ACT, 1912, AS AMENDED.—PUBLIC WORKS ACT, 1912, AS AMENDED.

ACQUISITION OF LAND FOR HOUSING PURPOSES (HOUSING SCHEME AT LUGARNO, NEW SOUTH WALES).

IT is hereby notified and declared by His Excellency the Governor, acting with the advice of the Executive Council, that in pursuance of the provisions of section 4 of the Housing Act, 1912, as amended by subsequent Acts, and as affected by the Housing Act, 1941, so much of the lands described in the Schedule hereunder as is Crown land is hereby appropriated, and so much of the said lands as is private property is hereby resumed, under the Public Works Act, 1912, as amended, for the purposes of the Housing Act, 1912, as amended, including all such mines and deposits under the said lands as are mentioned in section 141 of the said Public Works Act, 1912, and that the said lands are vested in The Housing Commission of New South Wales. (46-14,907—Schedule 633)

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: AUTO CONSOL 5965-1

SEARCH DATE	TIME	EDITION NO	DATE
19/5/2025	7:51 AM	-	-

VOL 5965 FOL 1 IS THE CURRENT CERTIFICATE OF TITLE

LAND

LAND DESCRIBED IN SCHEDULE OF PARCELS
AT PAGEWOOD
LOCAL GOVERNMENT AREA BAYSIDE
PARISH OF BOTANY COUNTY OF CUMBERLAND
TITLE DIAGRAM DP35180

FIRST SCHEDULE

NEW SOUTH WALES LAND AND HOUSING CORPORATION

SECOND SCHEDULE (0 NOTIFICATIONS)

NIL

NOTATIONS

UNREGISTERED DEALINGS: NIL

SCHEDULE OF PARCELS

LOTS 1-17 IN DP35180.

*** END OF SEARCH ***

Appendix D Section 10.7 Planning Certificate(s)

Bayside Council
Serving Our Community

6 May 2025

Our Ref: Certificate No. 82984
Contact: Customer Service 1300 581 299

Jbs & G Australia Pty Ltd
Level 8/179 Elizabeth St
SYDNEY NSW 2000

Dear Sir/Madam

Following is your planning certificate issued under section 10.7 (2) and (5) of the Environmental Planning and Assessment Act 1979.

This Section 10.7 Certificate has been issued by Bayside Council. Information contained within this Certificate is based on data from Council's records as they existed at the date of this Certificate.

Should you have any enquiries, please contact the Council's Customer Service Centre on 1300 581 299.

SECTION 10.7 PLANNING CERTIFICATE

(under section 10.7 of the Environmental Planning and Assessment Act 1979)

ISSUED TO:

Jbs & G Australia Pty Ltd
Level 8/179 Elizabeth St
SYDNEY NSW 2000

Council: Bayside
County: Cumberland
Parish: St George

Fee: 174.00
Receipt No: 5843039
Receipt Date:
Your Ref: 69149:101030

PROPERTY: 80 BANKS AVENUE, PAGEWOOD NSW 2035

Lot 16 DP 35180 Lot 17 DP 35180 PT 14 DP 35180 PT 15 DP 35180

FI, FI, FI, FI

Assessment No: 36401

Date: 6 May 2025

For
Meredith Wallace
General Manager

Rockdale Customer Service Centre
444-446 Princes Highway
Rockdale NSW 2216, Australia
ABN 80 690 785 443

Eastgardens Customer Service Centre
Westfield Eastgardens
152 Bunnerong Road
Eastgardens NSW 2036, Australia
ABN 80 690 785 443

T 1300 581 299 | 02 9562 1666
E council@bayside.nsw.gov.au
W www.bayside.nsw.gov.au
Postal address: PO Box 21, Rockdale NSW 2216

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Notes: (1) Where this certificate refers to a specific allotment (or allotments) within a strata plan the certificate is issued for the whole of the land within the strata plan, not just the specific allotment or allotments referred to, and any information contained in the certificate may relate to the whole or any part of the strata plan.

1 Names of relevant planning instruments and development control plans

(1) The name of each environmental planning instrument and development control plan that applies to the carrying out of development on the land.

Bayside Local Environmental Plan 2021

State Environmental Planning Policy	(Exempt and Complying Development Codes) 2008
State Environmental Planning Policy	(Housing) 2021
State Environmental Planning Policy	(Biodiversity and Conservation) 2021
State Environmental Planning Policy	(Resilience and Hazards) 2021
State Environmental Planning Policy	(Transport and Infrastructure) 2021
State Environmental Planning Policy	(Industry and Employment) 2021
State Environmental Planning Policy	(Resources and Energy) 2021
State Environmental Planning Policy	(Primary Production) 2021
State Environmental Planning Policy	(Precincts – Eastern Harbour City) 2021
State Environmental Planning Policy	(Planning Systems) 2021
State Environmental Planning Policy	(Sustainable Buildings) 2022

Bayside Development Control Plan 2022

(2) The name of each proposed environmental planning instrument and draft development control plan, which is or has been subject to community consultation or public exhibition under the Act, that will apply to the carrying out of development on the land.

State Environmental Planning Policy	(Housing) Amendment (Manufactured Home Estates, Caravan Parks and Camping Grounds) 2023
State Environmental Planning Policy	Explanation of Intended Effect Amendments to the: State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 for outdoor dining on private land and at registered clubs; and Standard Instrument – Principal Local Environmental Plan 2006 to include a new floor space bonus clause for new developments to include music venues
Explanation of Intended Effect	Changes to Deter Illegal Tree and Vegetation Clearing

Explanation of Intended Effect: Improving Planning Processes to Deliver Infrastructure Faster

The NSW Department of Planning, Housing and Infrastructure (DPHI) have placed on public exhibition an Explanation of Intended Effect (EIE) for a series of proposed reforms, which propose changes to:

- *State Environmental Planning Policy (Transport and Infrastructure) 2021* (T&I SEPP); and
- *State Environmental Planning Policy (Planning Systems) 2021* (Planning Systems SEPP).

Proposed changes to the T&I SEPP
Changes are proposed to the following sections of the T&I SEPP:

Educational establishments; Health services facilities; National Parks and Wildlife Service Land; Electricity generating works and solar energy; Greater Sydney Parklands; Emergency services facilities; Water treatment facilities; Water storage facilities; Infrastructure in coastal areas; Demolition of buildings; Temporary structures on parks and other public reserves; Electric vehicle charging units; Research and monitoring stations; Three ports planning controls; Moorebank Freight Intermodal Precinct; Australian Botanic Gardens – Mount Annan; Other changes, including a proposed restructure of the SEPP.

The proposed changes aim to:

- make it easier to deliver infrastructure at the right time, including speeding up projects that benefit the community, create jobs and support economic growth;
- do so in a way that protects residential amenity, the environment and heritage items from any impacts of this deliver;
- help ensure a consistent approach between different infrastructure activities with similar characteristics and impacts; and
- improve the usability of the SEPP.

Proposed changes to the Planning Systems SEPP
A proposed amendment to the Planning Systems SEPP alters the planning approval pathways for Water Treatment Facilities. The proposed change seeks to deliver essential infrastructure more efficiently while maintaining an appropriate level of environmental assessment.

DPHI is exhibiting this EIE in line with its Community Participation Plan, which aims to involve more people in decisions about the NSW planning system.

For more information and to make a submission on the proposed changes please visit the Have your say website on the NSW Planning Portal, available here: https://www.planningportal.nsw.gov.au/draftplans/exhibition/explanation-intended-effect-improving-planning-processes-deliver-infrastructure-faster

Public exhibition concluded on **Tuesday 16 April 2024**.

Explanation of Intended Effect: Complying Development for Farm Buildings, Rural Sheds and Earthworks

The NSW Department of Planning, Housing and Infrastructure (DPHI) have placed on

public exhibition an Explanation of Intended Effect (EIE) for changes to the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*. The changes include allowing some Complying Development Codes to apply to land identified as Acid Sulfate Soils Class 2 if a suitably qualified expert certifies that an Acid Sulfate Soils Management Plan is not required. This change would affect several Complying Development Codes that presently apply within Bayside, including the:

- Housing Code,
- Low Rise Housing Diversity Code, and
- Industrial and Business Buildings Code

Further changes are proposed, but these are not expected to apply to any land in the Bayside LGA.

For more information and to provide feedback to DPHI, please access the consultation website on the NSW Planning Portal here: https://www.planningportal.nsw.gov.au/draftplans/exhibition/proposed-changes-complying-development-farm-buildings-rural-sheds-and-earthworks

Public exhibition concluded on Friday **14 June 2024**.

Planning Proposal – Bus Shelter Advertising

On 30 August 2024, Council received a Gateway Determination to amend the Bayside Local Environmental Plan (LEP) 2021 to allow advertising on bus shelters as exempt development across the Bayside Local Government Area (LGA).

The Planning Proposal seeks to amend the Bayside LEP 2021 by including exempt development provisions to permit advertising on bus shelters under *Schedule 2 Exempt development*.

The Planning Proposal and exhibition materials can be found on Bayside Council's Have Your Say page: http://haveyoursay.bayside.nsw.gov.au.

Public exhibition concluded on **Monday 11 November 2024**.

Planning Proposal – Medium Density Residential Uses

On 10 November 2023, Council received a Gateway Determination to make amendments to the *Bayside Local Environmental Plan 2021* to land zoned R3 Medium Density Residential to facilitate development of new homes.

This proposal seeks to:

- **Increase the maximum Floor Space Ratio (FSR)** from 0.6:1 to 0.7:1, and
- **Introduce a new provision** stating that Clause 4.1 will not apply to the subdivision of land in Zone R3 on which the erection of Multi-Dwelling Housing or Attached Dwellings have been approved or are proposed.

For more information and to provide feedback, access Council's Have Your Say Page, available here: https://haveyoursay.bayside.nsw.gov.au/planning-proposal-medium-density-residential-uses

Public exhibition concluded on **Monday 11 November 2024**.

Explanation of Intended Effect: Cultural State Environmental Planning Policy (SEPP).

The NSW Department of Planning, Housing and Infrastructure (DPHI) have placed on public exhibition an Explanation of Intended Effect (EIE) for a series of proposed reforms to various Environmental Planning Instruments (EPIs) for the following purposes:

Current planning pathways

- Expand the non-refusal standards for different types of entertainment
- Develop new model conditions of consent for entertainment

Events

- Increase development standards for temporary structures used at community events
- Support events at major precincts by enabling more events across new and existing sites
- Support Vivid Sydney with exempt development standards for the temporary light and sound structures
- Allow temporary extended trading hours for unlicensed businesses during special events
- Support events in town halls

Outdoor dining and food trucks

- Investigate providing outdoor music and outdoor dining patron increases using exempt development
- Extend exempt development pathways to make outdoor dining easier at farm gate premises
- Improve provisions for food trucks in residential and conservation zones, and investigate measures for food businesses using shipping containers

Changes to the Business and Industrial Codes in the Codes SEPP

- Allow a change of use in the SP4 enterprise zone
- Development standards to retrofit bike rails and bike lockers in existing buildings

For more information and to make a submission on the proposed changes please visit the Have your say website on the NSW Planning Portal, available here: https://www.planningportal.nsw.gov.au/draftplans/exhibition/explanation-intended-effect-cultural-state-environmental-planning-policy-sepp

Public exhibition concluded on **Friday 7 February 2025**.

No draft Development Control Plan applies to the land.

(3) Subsection (2) does not apply in relation to a proposed environmental planning instrument or draft development control plan if—

a) it has been more than 3 years since the end of the public exhibition period for the proposed instrument or draft plan, or

b) for a proposed environmental planning instrument—the Planning Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved.

(4) In this section—
***proposed environmental planning instrument* means a draft environmental planning instrument and includes a planning proposal for a local environmental plan.**

2 Zoning and land use under relevant planning instruments

The following matters for each environmental planning instrument or draft environmental planning instrument that includes the land in a zone, however described—

(a) the identity of the zone, whether by reference to—
(i) a name, such as "Residential Zone" or "Heritage Area", or
(ii) a number, such as "Zone No 2 (a)",

(b) the purposes for which development in the zone—
(i) may be carried out without development consent, and
(ii) may not be carried out except with development consent, and
(iii) is prohibited,

The following zone or zones apply under the environmental planning instrument or draft environmental planning instrument referred to in section 1(1):

Zone R3 Medium Density Residential

1 Objectives of zone

- To provide for the housing needs of the community within a medium density residential environment.
- To provide a variety of housing types within a medium density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure land uses are carried out in a context and setting to minimise impact on the character and amenity of the area.
- To enable residential development in accessible locations to maximise public transport patronage and encourage walking and cycling.

2 Permitted without consent

Home-based child care; Home occupations

3 Permitted with consent

Attached dwellings; Bed and Breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Dual Occupancies; Dwelling houses; Educational establishments; Environmental protection works; Exhibition homes; Flood mitigation works; Group homes; Health service facilities; Home businesses; Home industries; Hostels; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Recreation areas; Respite day care centres; Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing; Tank-based aquaculture; Water supply systems

4 Prohibited

Any other development not specified in item 2 or 3

(c) whether additional permitted uses apply to the land,

35 Use of certain land in R3 Medium Density Residential zone for residential flat buildings

(1) This clause applies to land identified as "35" on the Additional Permitted Uses Map.

(2) Development for the purposes of a residential flat building is permitted with development consent.

(d) whether development standards applying to the land fix minimum land dimensions for the erection of a dwelling house on the land and, if so, the fixed minimum land dimensions,

No development standards apply to the land that fixes minimum land dimensions for the erection of a dwelling house.

Note: The above information does not imply that the erection of a dwelling-house is necessarily permissible on the land to which this certificate applies. Refer to the relevant local environmental plan, deemed environmental planning instrument or draft local environmental plan applying to the land to confirm this.

(e) whether the land is in an area of outstanding biodiversity value under the *Biodiversity Conservation Act 2016*,

The land **is not** an area of outstanding biodiversity value.

(f) whether the land is in a conservation area, however described,

The land **is not** in a conservation area.

(g) whether an item of environmental heritage, however described, is located on the land.

There is **no such item** situated on the land.

3 Contributions plans

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

City of Botany Section 7.11 Development Contributions Plan 2016
City of Botany Bay Section 94A Development Contributions Plan 2016

Note: For a copy of the plans please access Bayside Council's website at www.bayside.nsw.gov.au.

Note: If land is within the former Rockdale City Local Government Area, the *Rockdale Section 94 Contributions Plan (Amendment No 4)* and *Rockdale Section 94 Contributions Plan 1998* will continue to apply to all Development Applications and applications for Complying Development Certificates made prior to 1 June 2004.

(2) If the land is in a region within the meaning of the Act, Division 7.1, Subdivision 4—

(a) the name of the region, and

(b) the name of the Ministerial planning order in which the region is identified.

The land is within the Greater Sydney region. The *Environmental Planning and Assessment (Housing and Productivity Contribution) Order 2024* applies to this land.

(3) If the land is in a special contributions area to which a continued 7.23 determination applies, the name of the area.

(4) In this section—
***continued 7.23 determination* means a 7.23 determination that—**
(a) has been continued in force by the Act, Schedule 4, Part 1, and
(b) has not been repealed as provided by that part.

The land is not within a special contributions area to which a continued 7.23 determination applies.

Note: The Act, Schedule 4, Part 1 contains other definitions that affect the interpretation of this section.

4 Complying development

(1) If the land is land on which complying development may be carried out under each of the complying development codes under *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*, because of that Policy, clause 1.17A(1)(c)–(e), (2), (3) or (4), 1.18(1)(c3) or 1.19.

(2) If complying development may not be carried out on the land because of 1 of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that—
(a) a restriction applies to the land, but it may not apply to all of the land, and
(b) the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

(4) If the complying development codes are varied, under that Policy, clause 1.12, in relation to the land.

Housing Code
Complying development **may be** carried out on the land under the above code.
Inland Code
Complying development **may be** carried out on the land under the above code.

Low Rise Housing Diversity Code
Complying development **may be** carried out on the land under the above code.

Rural Housing Code
Complying development **may be** carried out on the land under the above code.
Greenfield Housing Code
Complying development **may be** carried out on the land under the above code.

Industrial and Business Buildings Code
Complying development **may be** carried out on the land under the above code.

Housing Alterations Code
Complying development **may be** carried out on the land under the above code.

General Development Code
Complying development **may be** carried out on the land under the above code.

Industrial and Building Alterations Code
Complying development **may be** carried out on the land under the above code.

Container Recycling Facilities Code
Complying development **may be** carried out on the land under the above code.

Subdivisions Code
Complying development **may be** carried out on the land under the above code.

Demolition Code
Complying development **may be** carried out on the land under the above code.

Fire Safety Code
Complying development **may be** carried out on the land under the above code.

Notes:
(1) If a reference is made to "part of the land", Complying Development **may be** carried out on the portion of the land not subject to such a restriction.
(2) This certificate only addresses matters raised in Clause 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1)(c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*. It is your responsibility to ensure that you comply with any other general requirements of the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.

5 Exempt development

(1) If the land is land on which exempt development may be carried out under each of the exempt development codes under *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*, because of that Policy, clause 1.16(1)(b1)–(d) or 1.16A.

(2) If exempt development may not be carried out on the land because of 1 of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land, a statement that—
- **(a) a restriction applies to the land, but it may not apply to all of the land, and**
- **(b) the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land.**

(4) If the exempt development codes are varied, under that Policy, clause 1.12, in relation to the land.

General Exempt Development Code
Exempt development **may be** carried out on the land under the above code.

Advertising and Signage Exempt Development Code
Exempt development **may be** carried out on the land under the above code.

Temporary Uses and Structures Exempt Development Code
Exempt development **may be** carried out on the land under the above code.

6 Affected building notices and building product rectification orders

(1) Whether the council is aware that—

a) an affected building notice is in force in relation to the land, or

b) a building product rectification order is in force in relation to the land that has not been fully complied with, or

c) a notice of intention to make a building product rectification order given in relation to the land is outstanding.

(2) In this section—
***affected building notice* has the same meaning as in the *Building Products (Safety) Act 2017*, Part 4.**

***building product rectification order* has the same meaning as in the *Building Products (Safety) Act 2017*.**

Council **is not aware of an issue** of a notice of intention or order pertaining to building product rectification works (Building Products Safety Act 2017).

7 Land reserved for acquisition

Whether an environmental planning instrument or proposed environmental planning instrument referred to in section 1 makes provision in relation to the acquisition of the land by an authority of the State, as referred to in the Act, section 3.15.

The land **is not affected** by any provision in an environmental planning instrument, deemed environmental planning instrument or draft environmental planning instrument that provides for the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

8 Road widening and road realignment

Whether the land is affected by any road widening or road realignment under—

(a) the *Roads Act 1993*, Part 3, Division 2, or

The land **is not affected by** any road widening or road realignment under Division 2 of Part 3 of the *Roads Act 1993.*

(b) an environmental planning instrument, or

The land **is not affected by** any road widening or road realignment under any environmental planning instrument.

(c) a resolution of the council.

The land **is not affected by** any road widening or road realignment under any resolution of the Council.

9 Flood related development controls

(1) If the land or part of the land is within the flood planning area and subject to flood related development controls.

Yes – The land or part of the land **is** within the flood planning area and **is** subject to flood related development controls under the following:

- *Bayside Local Environmental Plan 2021*
- *Bayside Development Control Plan 2022*

(2) If the land or part of the land is between the flood planning area and the probable maximum flood and subject to flood related development controls.

Yes – The land or part of the land **is** between the flood planning area and the probable maximum flood and **is** subject to flood related development controls under the following:

- *Bayside Local Environmental Plan 2021*
- *Bayside Development Control Plan 2022*

Note: (1) Further information relating to flooding is provided in the "Advice under Section 10.7 (5)" attached.

Note:
(1) The answers above do not imply that the development referred to is necessarily permissible on the land to which this certificate applies. Refer to the relevant local environmental plan, deemed environmental planning instrument or draft local environmental plan applying to the land to confirm this.
(2) Council is not in a position to identify whether the information provided under section 9 relates to a current or future hazard as defined in Planning Circular PS 14-003.

(3) In this section—
***flood planning area* has the same meaning as in the Flood Risk Management Manual.**

***Flood Risk Management Manual* means the Flood Risk Management Manual, ISBN 978-1-923076-17-4, published by the NSW Government in June 2023.**

***probable maximum flood* has the same meaning as in the *Flood Risk Management Manual*.**

10 Council and other public authority policies on hazard risk restrictions

(1) Whether any of the land is affected by an adopted policy that restricts the development of the land because of the likelihood of land slip, bush fire, tidal inundation, subsidence, acid sulfate soils, contamination, aircraft noise, salinity, coastal hazards, sea level rise or another risk, other than flooding.

(2) In this section—

***adopted policy* means a policy adopted—**

- **(a) by the council, or**
- **(b) by another public authority, if the public authority has notified the council that the policy will be included in a planning certificate issued by the council.**

Bayside Development Control Plan 2022 – provisions of Section 3.11 - Contamination

11 Bush fire prone land

(1) If any of the land is bush fire prone land, designated by the Commissioner of the NSW Rural Fire Service under the Act, section 10.3, a statement that all or some of the land is bush fire prone land.

(2) If none of the land is bush fire prone land, a statement to that effect.

The land **is not** bush fire prone land.

12 Loose-fill asbestos insulation

If the land includes residential premises, within the meaning of the *Home Building Act 1989*, Part 8, Division 1A, that are listed on the Register kept under that Division, a statement to that effect.

The land **is not** so listed.

13 Mine subsidence

Whether the land is declared to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017*.

The land **is not** so proclaimed.

14 Paper subdivision information

(1) The name of a development plan adopted by a relevant authority that–
- **(a) applies to the land, or**
- **(b) is proposed to be subject to a ballot.**

(2) The date of a subdivision order that applies to the land.

(3) Words and expressions used in this section have the same meaning as in this Regulation, Part 10 and the Act, Schedule 7.

The land **is not** so affected.

15 Property vegetation plans

If the land is land in relation to which a property vegetation plan is approved and in force under the *Native Vegetation Act 2003*, Part 4, a statement to that effect, but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act.

The land **is not** land to which a property vegetation plan applies.

16 Biodiversity stewardship sites

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the *Biodiversity Conservation Act 2016*, Part 5, a statement to that effect, but only if the council has been notified of the existence of the agreement by the Biodiversity Conservation Trust.

Note— *Biodiversity stewardship agreements include biobanking agreements under the Threatened Species Conservation Act 1995, Part 7A that are taken to be biodiversity stewardship agreements under the Biodiversity Conservation Act 2016, Part 5.*

The land **is not** subject to any such agreement.

17 Biodiversity certified land

If the land is biodiversity certified land under the *Biodiversity Conservation Act 2016*, Part 8, a statement to that effect.

Note— *Biodiversity certified land includes land certified under the Threatened Species Conservation Act 1995, Part 7AA that is taken to be certified under the Biodiversity Conservation Act 2016, Part 8.*

The land **is not** biodiversity certified land.

18 Orders under *Trees (Disputes Between Neighbours) Act 2006*

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land, but only if the council has been notified of the order.

The land **is not** subject to such an order.

19 Annual charges under *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works

(1) **If the *Coastal Management Act 2016* applies to the council, whether the owner, or a previous owner, of the land has given written consent to the land being subject to annual charges under the *Local Government Act 1993*, section 496B, for coastal protection services that relate to existing coastal protection works.**

(2) **In this section—**
***existing coastal protection works* has the same meaning as in the *Local Government Act 1993*, section 553B.**

Note— Existing coastal protection works are works to reduce the impact of coastal hazards on land, such as seawalls, revetments, groynes and beach nourishment, that existed before 1 January 2011.

The land **is not** subject to annual charges.

20 Western Sydney Aerotropolis

Whether under *State Environmental Planning Policy (Precincts—Western Parkland City) 2021*, Chapter 4 the land is—

(a) **in an ANEF or ANEC contour of 20 or greater, as referred to in that Chapter, section 4.17, or**
(b) **shown on the Lighting Intensity and Wind Shear Map, or**
(c) **shown on the Obstacle Limitation Surface Map, or**
(d) **in the "public safety area" on the Public Safety Area Map, or**
(e) **in the "3 kilometre wildlife buffer zone" or the "13 kilometre wildlife buffer zone" on the Wildlife Buffer Zone Map.**

The land **is not** subject to the *State Environmental Planning Policy (Precincts—Western Parkland City) 2021*, Chapter 4.

21 Development consent conditions for seniors housing

If *State Environmental Planning Policy (Housing) 2021*, Chapter 3, Part 5 applies to the land, any conditions of a development consent granted after 11 October 2007 in relation to the land that are of the kind set out in that Policy, section 88(2).

The land **is not** subject to any such statement.

22 Site compatibility certificates and development consent conditions for affordable rental housing

(1) Whether there is a current site compatibility certificate under *State Environmental Planning Policy (Housing) 2021*, or a former site compatibility certificate, of which the council is aware, in relation to proposed development on the land and, if there is a certificate—

(a) the period for which the certificate is current, and

(b) that a copy may be obtained from the Department.

The land **is not** subject to any such certificate.

(2) If *State Environmental Planning Policy (Housing) 2021*, Chapter 2, Part 2, Division 1 or 5 applies to the land, any conditions of a development consent in relation to the land that are of a kind referred to in that Policy, clause 21(1) or 40(1).

The land **is not** subject to any such statement.

(3) Any conditions of a development consent in relation to land that are of a kind referred to in *State Environmental Planning Policy (Affordable Rental Housing) 2009*, clause 17(1) or 38(1).

The land **is not** subject to any such statement.

(4) In this section—
former site compatibility certificate* means a site compatibility certificate issued under *State Environmental Planning Policy (Affordable Rental Housing) 2009.

23 Water or sewerage services

If water or sewerage services are, or are to be provided to the land under the *Water Industry Competition Act 2006*, a statement to that effect.

Note— A public water utility may not be the provider of some or all of the services to the land. If a water or sewerage service is provided to the land by a licensee under the *Water Industry Competition Act 2006*, a contract for the service will be deemed to have been entered into between the licensee and the owner of the land. A register relating to the approvals and licenses necessary for the provision of water or sewerage services under the *Water Industry Competition Act 2006* is maintained by the Independent Pricing and Regulatory Tribunal and provides information about the areas serviced, or to be serviced under that Act. Purchasers should check the register to understand who will service the property. Outstanding charges for water or sewerage services provided under the *Water Industry Competition Act 2006* become the responsibility of the purchaser.

Council has not been advised of any water or sewerage services that are, or are to be provided

to the land under the *Water Industry Competition Act 2006*. Property purchasers are directed to check the IPART website for further information:
https://www.ipart.nsw.gov.au/Home/About-IPART/Governing-Legislation/Water-Industry-Competition-Act-2006

Section 59(2) Contaminated Land Management Act 1997

Note: The following matters are prescribed by section 59 (2) of *the Contaminated Land Management Act 1997* as additional matters to be specified in a planning certificate:

(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act—if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued;

Not applicable

(b) that the land to which the certificate relates is subject to a management order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued;

Not applicable

(c) that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act—if it is the subject of such an approved proposal at the date when the certificate is issued;

Not applicable

(d) that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued; and

Not applicable

(e) that the land to which the certificate relates is the subject of a site audit statement within the meaning of that Act—if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

Not applicable

[End of information under section 10.7 (2)]

ADVICE UNDER SECTION 10.7 (5)

Note: The Council is under no obligation to furnish any of the information supplied below. Equally, it may be that not every relevant matter relating to the land is provided below. The Council draws your attention to section 10.7 (6) of the *Environmental Planning and Assessment Act 1979* which states that a council shall not incur any liability in respect of any advice provided in good faith under section 10.7 (5).

Further to your application for information under section 10.7 (5) of the *Environmental Planning & Assessment Act 1979* (EP&A Act), the Council has resolved to supply answers to the following questions:

A Whether or not the Council has information that would indicate that the land is subject to the risk of flooding or tidal inundation for a 1% annual exceedance probability (AEP) (1 in 100 Year) event

The Council **is aware** of various information that suggests the land may be affected by the 1% AEP flood. The Council is unaware of the accuracy of this information, although further enquiries may be made with the Council's City Infrastructure Department in relation to this.

Note: Refer to Question 9 of the preceding certificate under section 10.7 (2) to ascertain whether or not development on the land may be subject to flood related development controls.

B Whether or not the Council has information that would indicate that the land is subject to slip or subsidence

The Council **is not aware** of any investigations that have been carried out.

C Whether or not the land is in the vicinity of a heritage item or heritage conservation area identified in an environmental planning instrument or a proposed heritage item or proposed heritage conservation area identified in a draft local environmental plan

A building, work, relic, tree or place located on land in the vicinity of this land **is identified as a heritage item** in schedule 5 to *Bayside Local Environmental Plan 2021*.

The special provisions of clause 5.10(5) of this plan apply to development on land in the vicinity of heritage items.

D Whether or not a planning agreement entered into under Subdivision 2 of Division 7.1 of Part 7 of the *Environmental Planning and Assessment Act 1979* currently applies to the land (but only if, where the Council is not a party to the agreement, information about the agreement has been provided to the Council)

No planning agreement currently applies to the land.

E Details of the Annual Noise Exposure Forecast (ANEF) applying to the land

The property is between the **15 and 20 ANEF** (2039) contours.

Note: The ANEF level may restrict the development of the land due to the risk of exposure to aircraft noise.

F Information that indicates whether or not any additional hazards exist for which no policy of council exists to restrict development

Not applicable

G Restrictions of the use of groundwater contained within the Botany Sands Aquifer

Not Applicable

H The following policies may be applicable to the land:

Clause 6.7 of the Bayside Local Environmental Plan 2021 - Airspace operations

Section 9.2 of Bayside Development Control Plan 2022 (DCP) - Any development application proposing a new structure within 10 metres either side (horizontally or vertically) of the “line of sight” (as detailed in Appendix 6 of the DCP) are to be referred to Sydney Ports Corporation for review and comment, to ensure that the proposed development does not impact on the Vessel Traffic Service system. Refer to Section 9.2 of the DCP for more information.

Section 3.7 Subsections 3.7.6 – 3.7.8 of the Bayside Development Control Plan 2022 apply to land that has potential to adversely affect Bayside's biodiversity or threatened species habitat and endangered ecological communities. Refer to Section 3.7 of the DCP for more information.

[End of advice under Section 10.7 (5)]

IMPORTANT NOTICE TO PURCHASERS

ALTERATIONS AND ADDITIONS TO BUILDINGS

Purchasers are reminded that it is necessary to obtain development consent from the Council prior to carrying out any building alterations or additions, including brick reskinning, replacing windows or internal alterations, or for the demolition of any building, unless the proposed work is specifically exempted by *Bayside Local Environmental Plan 2021* or *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*. All other building work does require the Council's approval.

Should you require any information or advice for any building work that you propose to undertake please contact the Council's Customer Service Centre on 1300 581 299.

Bayside Council
Serving Our Community

6 May 2025

Our Ref: Certificate No. 82985
Contact: Customer Service 1300 581 299

Jbs & G Australia Pty Ltd
Level 8/179 Elizabeth St
SYDNEY NSW 2000

Dear Sir/Madam

Following is your planning certificate issued under section 10.7 (2) and (5) of the Environmental Planning and Assessment Act 1979.

This Section 10.7 Certificate has been issued by Bayside Council. Information contained within this Certificate is based on data from Council's records as they existed at the date of this Certificate.

Should you have any enquiries, please contact the Council's Customer Service Centre on 1300 581 299.

SECTION 10.7 PLANNING CERTIFICATE

(under section 10.7 of the Environmental Planning and Assessment Act 1979)

ISSUED TO:

Jbs & G Australia Pty Ltd
Level 8/179 Elizabeth St
SYDNEY NSW 2000

Council: Bayside
County: Cumberland
Parish: St George

Fee: 174.00
Receipt No: 5843039
Receipt Date:
Your Ref: 69149:101030

PROPERTY: 74 BANKS AVENUE, PAGEWOOD NSW 2035

Lot 10 DP 35180, Lot 11 DP 35180, Lot 12 DP 35180, Lot 13 DP 35180, Lot 5 DP 35180, Lot 6 DP 35180, Lot 7 DP 35180, Lot 8 DP 35180, Lot 9 DP 35180, Lot 1 DP 527564

FI

Assessment No: 36402

Date: 6 May 2025

For
Meredith Wallace
General Manager

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Notes: (1) Where this certificate refers to a specific allotment (or allotments) within a strata plan the certificate is issued for the whole of the land within the strata plan, not just the specific allotment or allotments referred to, and any information contained in the certificate may relate to the whole or any part of the strata plan.

1 Names of relevant planning instruments and development control plans

(1) The name of each environmental planning instrument and development control plan that applies to the carrying out of development on the land.

Bayside Local Environmental Plan 2021

State Environmental Planning Policy	(Exempt and Complying Development Codes) 2008
State Environmental Planning Policy	(Housing) 2021
State Environmental Planning Policy	(Biodiversity and Conservation) 2021
State Environmental Planning Policy	(Resilience and Hazards) 2021
State Environmental Planning Policy	(Transport and Infrastructure) 2021
State Environmental Planning Policy	(Industry and Employment) 2021
State Environmental Planning Policy	(Resources and Energy) 2021
State Environmental Planning Policy	(Primary Production) 2021
State Environmental Planning Policy	(Precincts – Eastern Harbour City) 2021
State Environmental Planning Policy	(Planning Systems) 2021
State Environmental Planning Policy	(Sustainable Buildings) 2022

Bayside Development Control Plan 2022

(2) The name of each proposed environmental planning instrument and draft development control plan, which is or has been subject to community consultation or public exhibition under the Act, that will apply to the carrying out of development on the land.

State Environmental Planning Policy	(Housing) Amendment (Manufactured Home Estates, Caravan Parks and Camping Grounds) 2023
State Environmental Planning Policy	Explanation of Intended Effect Amendments to the: State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 for outdoor dining on private land and at registered clubs; and Standard Instrument – Principal Local Environmental Plan 2006 to include a new floor space bonus clause for new developments to include music venues
Explanation of Intended Effect	Changes to Deter Illegal Tree and Vegetation Clearing

Explanation of Intended Effect: Improving Planning Processes to Deliver Infrastructure Faster

The NSW Department of Planning, Housing and Infrastructure (DPHI) have placed on public exhibition an Explanation of Intended Effect (EIE) for a series of proposed reforms, which propose changes to:

- *State Environmental Planning Policy (Transport and Infrastructure) 2021* (T&I SEPP); and
- *State Environmental Planning Policy (Planning Systems) 2021* (Planning Systems SEPP).

Proposed changes to the T&I SEPP
Changes are proposed to the following sections of the T&I SEPP:

Educational establishments; Health services facilities; National Parks and Wildlife Service Land; Electricity generating works and solar energy; Greater Sydney Parklands; Emergency services facilities; Water treatment facilities; Water storage facilities; Infrastructure in coastal areas; Demolition of buildings; Temporary structures on parks and other public reserves; Electric vehicle charging units; Research and monitoring stations; Three ports planning controls; Moorebank Freight Intermodal Precinct; Australian Botanic Gardens – Mount Annan; Other changes, including a proposed restructure of the SEPP.

The proposed changes aim to:

- make it easier to deliver infrastructure at the right time, including speeding up projects that benefit the community, create jobs and support economic growth;
- do so in a way that protects residential amenity, the environment and heritage items from any impacts of this deliver;
- help ensure a consistent approach between different infrastructure activities with similar characteristics and impacts; and
- improve the usability of the SEPP.

Proposed changes to the Planning Systems SEPP
A proposed amendment to the Planning Systems SEPP alters the planning approval pathways for Water Treatment Facilities. The proposed change seeks to deliver essential infrastructure more efficiently while maintaining an appropriate level of environmental assessment.

DPHI is exhibiting this EIE in line with its Community Participation Plan, which aims to involve more people in decisions about the NSW planning system.

For more information and to make a submission on the proposed changes please visit the Have your say website on the NSW Planning Portal, available here: https://www.planningportal.nsw.gov.au/draftplans/exhibition/explanation-intended-effect-improving-planning-processes-deliver-infrastructure-faster

Public exhibition concluded on **Tuesday 16 April 2024**.

Explanation of Intended Effect: Complying Development for Farm Buildings, Rural Sheds and Earthworks

The NSW Department of Planning, Housing and Infrastructure (DPHI) have placed on

public exhibition an Explanation of Intended Effect (EIE) for changes to the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*. The changes include allowing some Complying Development Codes to apply to land identified as Acid Sulfate Soils Class 2 if a suitably qualified expert certifies that an Acid Sulfate Soils Management Plan is not required. This change would affect several Complying Development Codes that presently apply within Bayside, including the:

- Housing Code,
- Low Rise Housing Diversity Code, and
- Industrial and Business Buildings Code

Further changes are proposed, but these are not expected to apply to any land in the Bayside LGA.

For more information and to provide feedback to DPHI, please access the consultation website on the NSW Planning Portal here: https://www.planningportal.nsw.gov.au/draftplans/exhibition/proposed-changes-complying-development-farm-buildings-rural-sheds-and-earthworks

Public exhibition concluded on Friday **14 June 2024**.

Planning Proposal – Bus Shelter Advertising

On 30 August 2024, Council received a Gateway Determination to amend the Bayside Local Environmental Plan (LEP) 2021 to allow advertising on bus shelters as exempt development across the Bayside Local Government Area (LGA).

The Planning Proposal seeks to amend the Bayside LEP 2021 by including exempt development provisions to permit advertising on bus shelters under *Schedule 2 Exempt development*.

The Planning Proposal and exhibition materials can be found on Bayside Council's Have Your Say page: http://haveyoursay.bayside.nsw.gov.au.

Public exhibition concluded on **Monday 11 November 2024**.

Planning Proposal – Medium Density Residential Uses

On 10 November 2023, Council received a Gateway Determination to make amendments to the *Bayside Local Environmental Plan 2021* to land zoned R3 Medium Density Residential to facilitate development of new homes.

This proposal seeks to:

- **Increase the maximum Floor Space Ratio (FSR)** from 0.6:1 to 0.7:1, and
- **Introduce a new provision** stating that Clause 4.1 will not apply to the subdivision of land in Zone R3 on which the erection of Multi-Dwelling Housing or Attached Dwellings have been approved or are proposed.

For more information and to provide feedback, access Council's Have Your Say Page, available here: https://haveyoursay.bayside.nsw.gov.au/planning-proposal-medium-density-residential-uses

Public exhibition concluded on **Monday 11 November 2024**.

Explanation of Intended Effect: Cultural State Environmental Planning Policy (SEPP).

The NSW Department of Planning, Housing and Infrastructure (DPHI) have placed on public exhibition an Explanation of Intended Effect (EIE) for a series of proposed reforms to various Environmental Planning Instruments (EPIs) for the following purposes:

Current planning pathways

- Expand the non-refusal standards for different types of entertainment
- Develop new model conditions of consent for entertainment

Events

- Increase development standards for temporary structures used at community events
- Support events at major precincts by enabling more events across new and existing sites
- Support Vivid Sydney with exempt development standards for the temporary light and sound structures
- Allow temporary extended trading hours for unlicensed businesses during special events
- Support events in town halls

Outdoor dining and food trucks

- Investigate providing outdoor music and outdoor dining patron increases using exempt development
- Extend exempt development pathways to make outdoor dining easier at farm gate premises
- Improve provisions for food trucks in residential and conservation zones, and investigate measures for food businesses using shipping containers

Changes to the Business and Industrial Codes in the Codes SEPP

- Allow a change of use in the SP4 enterprise zone
- Development standards to retrofit bike rails and bike lockers in existing buildings

For more information and to make a submission on the proposed changes please visit the Have your say website on the NSW Planning Portal, available here: https://www.planningportal.nsw.gov.au/draftplans/exhibition/explanation-intended-effect-cultural-state-environmental-planning-policy-sepp

Public exhibition concluded on **Friday 7 February 2025**.

No draft Development Control Plan applies to the land.

(3) Subsection (2) does not apply in relation to a proposed environmental planning instrument or draft development control plan if—

a) it has been more than 3 years since the end of the public exhibition period for the proposed instrument or draft plan, or

b) for a proposed environmental planning instrument—the Planning Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved.

(4) In this section—
***proposed environmental planning instrument* means a draft environmental planning instrument and includes a planning proposal for a local environmental plan.**

2 Zoning and land use under relevant planning instruments

The following matters for each environmental planning instrument or draft environmental planning instrument that includes the land in a zone, however described—

(a) the identity of the zone, whether by reference to—
(i) a name, such as "Residential Zone" or "Heritage Area", or
(ii) a number, such as "Zone No 2 (a)",
(b) the purposes for which development in the zone—
(i) may be carried out without development consent, and
(ii) may not be carried out except with development consent, and
(iii) is prohibited,

The following zone or zones apply under the environmental planning instrument or draft environmental planning instrument referred to in section 1(1):

Zone R3 Medium Density Residential

1 Objectives of zone

- To provide for the housing needs of the community within a medium density residential environment.
- To provide a variety of housing types within a medium density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure land uses are carried out in a context and setting to minimise impact on the character and amenity of the area.
- To enable residential development in accessible locations to maximise public transport patronage and encourage walking and cycling.

2 Permitted without consent

Home-based child care; Home occupations

3 Permitted with consent

Attached dwellings; Bed and Breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Dual Occupancies; Dwelling houses; Educational establishments; Environmental protection works; Exhibition homes; Flood mitigation works; Group homes; Health service facilities; Home businesses; Home industries; Hostels; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Recreation areas; Respite day care centres; Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing; Tank-based aquaculture; Water supply systems

4 Prohibited

Any other development not specified in item 2 or 3

(c) whether additional permitted uses apply to the land,

35 Use of certain land in R3 Medium Density Residential zone for residential flat buildings

(1) This clause applies to land identified as “35” on the Additional Permitted Uses Map.

(2) Development for the purposes of a residential flat building is permitted with development consent.

(d) whether development standards applying to the land fix minimum land dimensions for the erection of a dwelling house on the land and, if so, the fixed minimum land dimensions,

No development standards apply to the land that fixes minimum land dimensions for the erection of a dwelling house.

Note: The above information does not imply that the erection of a dwelling-house is necessarily permissible on the land to which this certificate applies. Refer to the relevant local environmental plan, deemed environmental planning instrument or draft local environmental plan applying to the land to confirm this.

(e) whether the land is in an area of outstanding biodiversity value under the *Biodiversity Conservation Act 2016*,

The land **is not** an area of outstanding biodiversity value.

(f) whether the land is in a conservation area, however described,

The land **is not** in a conservation area.

(g) whether an item of environmental heritage, however described, is located on the land.

There is **no such item** situated on the land.

3 Contributions plans

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

City of Botany Section 7.11 Development Contributions Plan 2016
City of Botany Bay Section 94A Development Contributions Plan 2016

Note: For a copy of the plans please access Bayside Council’s website at www.bayside.nsw.gov.au.

Note: If land is within the former Rockdale City Local Government Area, the *Rockdale Section 94 Contributions Plan (Amendment No 4)* and *Rockdale Section 94 Contributions Plan 1998* will continue to apply to all Development Applications and applications for Complying Development Certificates made prior to 1 June 2004.

(2) If the land is in a region within the meaning of the Act, Division 7.1, Subdivision 4—

(a) the name of the region, and
(b) the name of the Ministerial planning order in which the region is identified.

The land is within the Greater Sydney region. The *Environmental Planning and Assessment (Housing and Productivity Contribution) Order 2024* applies to this land.

(3) If the land is in a special contributions area to which a continued 7.23 determination applies, the name of the area.

(4) In this section—
***continued 7.23 determination* means a 7.23 determination that—**
(a) has been continued in force by the Act, Schedule 4, Part 1, and
(b) has not been repealed as provided by that part.

The land is not within a special contributions area to which a continued 7.23 determination applies.

Note: The Act, Schedule 4, Part 1 contains other definitions that affect the interpretation of this section.

4 Complying development

(1) If the land is land on which complying development may be carried out under each of the complying development codes under *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*, because of that Policy, clause 1.17A(1)(c)–(e), (2), (3) or (4), 1.18(1)(c3) or 1.19.

(2) If complying development may not be carried out on the land because of 1 of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that—
(a) a restriction applies to the land, but it may not apply to all of the land, and
(b) the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

(4) If the complying development codes are varied, under that Policy, clause 1.12, in relation to the land.

Housing Code
Complying development **may be** carried out on the land under the above code.

Inland Code
Complying development **may be** carried out on the land under the above code.

Low Rise Housing Diversity Code
Complying development **may be** carried out on the land under the above code.

Rural Housing Code
Complying development **may be** carried out on the land under the above code.

Greenfield Housing Code
Complying development **may be** carried out on the land under the above code.
Industrial and Business Buildings Code
Complying development **may be** carried out on the land under the above code.

Housing Alterations Code
Complying development **may be** carried out on the land under the above code.

General Development Code
Complying development **may be** carried out on the land under the above code.

Industrial and Building Alterations Code
Complying development **may be** carried out on the land under the above code.

Container Recycling Facilities Code
Complying development **may be** carried out on the land under the above code.

Subdivisions Code
Complying development **may be** carried out on the land under the above code.

Demolition Code
Complying development **may be** carried out on the land under the above code.

Fire Safety Code
Complying development **may be** carried out on the land under the above code.

Notes:
(1) If a reference is made to "part of the land", Complying Development **may be** carried out on the portion of the land not subject to such a restriction.
(2) This certificate only addresses matters raised in Clause 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1)(c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*. It is your responsibility to ensure that you comply with any other general requirements of the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.

5 Exempt development

(1) If the land is land on which exempt development may be carried out under each of the exempt development codes under *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*, because of that Policy, clause 1.16(1)(b1)–(d) or 1.16A.

(2) If exempt development may not be carried out on the land because of 1 of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land, a statement that—
- **(a) a restriction applies to the land, but it may not apply to all of the land, and**
- **(b) the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land.**

(4) If the exempt development codes are varied, under that Policy, clause 1.12, in relation to the land.

General Exempt Development Code

Exempt development **may be** carried out on the land under the above code.

Advertising and Signage Exempt Development Code
Exempt development **may be** carried out on the land under the above code.

Temporary Uses and Structures Exempt Development Code
Exempt development **may be** carried out on the land under the above code.

6 Affected building notices and building product rectification orders

(1) Whether the council is aware that—

a) an affected building notice is in force in relation to the land, or

b) a building product rectification order is in force in relation to the land that has not been fully complied with, or

c) a notice of intention to make a building product rectification order given in relation to the land is outstanding.

(2) In this section—

***affected building notice* has the same meaning as in the *Building Products (Safety) Act 2017*, Part 4.**

***building product rectification order* has the same meaning as in the *Building Products (Safety) Act 2017*.**

Council **is not aware of an issue** of a notice of intention or order pertaining to building product rectification works (Building Products Safety Act 2017).

7 Land reserved for acquisition

Whether an environmental planning instrument or proposed environmental planning instrument referred to in section 1 makes provision in relation to the acquisition of the land by an authority of the State, as referred to in the Act, section 3.15.

The land **is not affected** by any provision in an environmental planning instrument, deemed environmental planning instrument or draft environmental planning instrument that provides for the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

8 Road widening and road realignment

Whether the land is affected by any road widening or road realignment under—

(a) the *Roads Act 1993*, Part 3, Division 2, or

The land **is not affected by** any road widening or road realignment under Division 2 of Part 3 of the *Roads Act 1993.*

(b) an environmental planning instrument, or

The land **is not affected by** any road widening or road realignment under any environmental planning instrument.

(c) a resolution of the council.

The land **is not affected by** any road widening or road realignment under any

resolution of the Council.

9 Flood related development controls

(1) If the land or part of the land is within the flood planning area and subject to flood related development controls.

Yes – The land or part of the land **is** within the flood planning area and **is** subject to flood related development controls under the following:

- *Bayside Local Environmental Plan 2021*
- *Bayside Development Control Plan 2022*

(2) If the land or part of the land is between the flood planning area and the probable maximum flood and subject to flood related development controls.

Yes – The land or part of the land **is** between the flood planning area and the probable maximum flood and **is** subject to flood related development controls under the following:

- *Bayside Local Environmental Plan 2021*
- *Bayside Development Control Plan 2022*

Note: (1) Further information relating to flooding is provided in the "Advice under Section 10.7 (5)" attached.

Note:
(1) The answers above do not imply that the development referred to is necessarily permissible on the land to which this certificate applies. Refer to the relevant local environmental plan, deemed environmental planning instrument or draft local environmental plan applying to the land to confirm this.
(2) Council is not in a position to identify whether the information provided under section 9 relates to a current or future hazard as defined in Planning Circular PS 14-003.

(3) In this section—
***flood planning area* has the same meaning as in the Flood Risk Management Manual.**

***Flood Risk Management Manual* means the Flood Risk Management Manual, ISBN 978-1-923076-17-4, published by the NSW Government in June 2023.**

***probable maximum flood* has the same meaning as in the *Flood Risk Management Manual*.**

10 Council and other public authority policies on hazard risk restrictions

(1) Whether any of the land is affected by an adopted policy that restricts the development of the land because of the likelihood of land slip, bush fire, tidal inundation, subsidence, acid sulfate soils, contamination, aircraft noise, salinity, coastal hazards, sea level rise or another risk, other than flooding.

(2) In this section—

***adopted policy* means a policy adopted—**

- **(a) by the council, or**
- **(b) by another public authority, if the public authority has notified the council that the policy will be included in a planning certificate issued by**

the council.

Bayside Development Control Plan 2022 – provisions of Section 3.11 - Contamination

11 Bush fire prone land

(1) If any of the land is bush fire prone land, designated by the Commissioner of the NSW Rural Fire Service under the Act, section 10.3, a statement that all or some of the land is bush fire prone land.

(2) If none of the land is bush fire prone land, a statement to that effect.

The land **is not** bush fire prone land.

12 Loose-fill asbestos insulation

If the land includes residential premises, within the meaning of the *Home Building Act 1989*, Part 8, Division 1A, that are listed on the Register kept under that Division, a statement to that effect.

The land **is not** so listed.

13 Mine subsidence

Whether the land is declared to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017*.

The land **is not** so proclaimed.

14 Paper subdivision information

(1) The name of a development plan adopted by a relevant authority that–
- **(a) applies to the land, or**
- **(b) is proposed to be subject to a ballot.**

(2) The date of a subdivision order that applies to the land.

(3) Words and expressions used in this section have the same meaning as in this Regulation, Part 10 and the Act, Schedule 7.

The land **is not** so affected.

15 Property vegetation plans

If the land is land in relation to which a property vegetation plan is approved and in force under the *Native Vegetation Act 2003*, Part 4, a statement to that effect, but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act.

The land **is not** land to which a property vegetation plan applies.

16 Biodiversity stewardship sites

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the *Biodiversity Conservation Act 2016*, Part 5, a statement to that

effect, but only if the council has been notified of the existence of the agreement by the Biodiversity Conservation Trust.

Note— *Biodiversity stewardship agreements include biobanking agreements under the Threatened Species Conservation Act 1995, Part 7A that are taken to be biodiversity stewardship agreements under the Biodiversity Conservation Act 2016, Part 5.*

The land **is not** subject to any such agreement.

17 Biodiversity certified land

If the land is biodiversity certified land under the *Biodiversity Conservation Act 2016*, Part 8, a statement to that effect.

Note— *Biodiversity certified land includes land certified under the Threatened Species Conservation Act 1995, Part 7AA that is taken to be certified under the Biodiversity Conservation Act 2016, Part 8.*

The land **is not** biodiversity certified land.

18 Orders under *Trees (Disputes Between Neighbours) Act 2006*

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land, but only if the council has been notified of the order.

The land **is not** subject to such an order.

19 Annual charges under *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works

(1) **If the *Coastal Management Act 2016* applies to the council, whether the owner, or a previous owner, of the land has given written consent to the land being subject to annual charges under the *Local Government Act 1993*, section 496B, for coastal protection services that relate to existing coastal protection works.**

(2) **In this section—**
***existing coastal protection works* has the same meaning as in the *Local Government Act 1993*, section 553B.**

Note— Existing coastal protection works are works to reduce the impact of coastal hazards on land, such as seawalls, revetments, groynes and beach nourishment, that existed before 1 January 2011.

The land **is not** subject to annual charges.

20 Western Sydney Aerotropolis

Whether under *State Environmental Planning Policy (Precincts—Western Parkland City) 2021*, Chapter 4 the land is—

(a) **in an ANEF or ANEC contour of 20 or greater, as referred to in that Chapter, section 4.17, or**
(b) **shown on the Lighting Intensity and Wind Shear Map, or**
(c) **shown on the Obstacle Limitation Surface Map, or**
(d) **in the "public safety area" on the Public Safety Area Map, or**
(e) **in the "3 kilometre wildlife buffer zone" or the "13 kilometre wildlife buffer**

zone" on the Wildlife Buffer Zone Map.

The land **is not** subject to the *State Environmental Planning Policy (Precincts—Western Parkland City) 2021*, Chapter 4.

21 Development consent conditions for seniors housing

If *State Environmental Planning Policy (Housing) 2021*, Chapter 3, Part 5 applies to the land, any conditions of a development consent granted after 11 October 2007 in relation to the land that are of the kind set out in that Policy, section 88(2).

The land **is not** subject to any such statement.

22 Site compatibility certificates and development consent conditions for affordable rental housing

(1) Whether there is a current site compatibility certificate under *State Environmental Planning Policy (Housing) 2021*, or a former site compatibility certificate, of which the council is aware, in relation to proposed development on the land and, if there is a certificate—

(a) the period for which the certificate is current, and

(b) that a copy may be obtained from the Department.

The land **is not** subject to any such certificate.

(2) If *State Environmental Planning Policy (Housing) 2021*, Chapter 2, Part 2, Division 1 or 5 applies to the land, any conditions of a development consent in relation to the land that are of a kind referred to in that Policy, clause 21(1) or 40(1).

The land **is not** subject to any such statement.

(3) Any conditions of a development consent in relation to land that are of a kind referred to in *State Environmental Planning Policy (Affordable Rental Housing) 2009*, clause 17(1) or 38(1).

The land **is not** subject to any such statement.

(4) In this section—
former site compatibility certificate* means a site compatibility certificate issued under *State Environmental Planning Policy (Affordable Rental Housing) 2009.

23 Water or sewerage services

If water or sewerage services are, or are to be provided to the land under the *Water Industry Competition Act 2006*, a statement to that effect.

Note— A public water utility may not be the provider of some or all of the services to the land. If a water or sewerage service is provided to the land by a licensee under the *Water Industry Competition Act 2006*, a contract for the service will be deemed to have been entered into between the licensee and the owner of the land. A register relating to the approvals and licenses necessary for the provision of water or sewerage services under the *Water Industry Competition Act 2006* is maintained by the Independent Pricing and Regulatory Tribunal and provides information about the areas serviced, or to be serviced under that Act. Purchasers should check the register to understand who will service the property. Outstanding charges for water or sewerage services provided under the *Water Industry Competition Act 2006* become the responsibility of the purchaser.

Council has not been advised of any water or sewerage services that are, or are to be provided to the land under the *Water Industry Competition Act 2006*. Property purchasers are directed to check the IPART website for further information:
https://www.ipart.nsw.gov.au/Home/About-IPART/Governing-Legislation/Water-Industry-Competition-Act-2006

Section 59(2) Contaminated Land Management Act 1997

Note: The following matters are prescribed by section 59 (2) of *the Contaminated Land Management Act 1997* as additional matters to be specified in a planning certificate:

(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act—if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued;

Not applicable

(b) that the land to which the certificate relates is subject to a management order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued;

Not applicable

(c) that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act—if it is the subject of such an approved proposal at the date when the certificate is issued;

Not applicable

(d) that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued; and

Not applicable

(e) that the land to which the certificate relates is the subject of a site audit statement within the meaning of that Act—if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

Not applicable

[End of information under section 10.7 (2)]

ADVICE UNDER SECTION 10.7 (5)

Note: The Council is under no obligation to furnish any of the information supplied below. Equally, it may be that not every relevant matter relating to the land is provided below. The Council draws your attention to section 10.7 (6) of the *Environmental Planning and Assessment Act 1979* which states that a council shall not incur any liability in respect of any advice provided in good faith under section 10.7 (5).

Further to your application for information under section 10.7 (5) of the *Environmental Planning & Assessment Act 1979* (EP&A Act), the Council has resolved to supply answers to the following questions:

A Whether or not the Council has information that would indicate that the land is subject to the risk of flooding or tidal inundation for a 1% annual exceedance probability (AEP) (1 in 100 Year) event

The Council **is aware** of various information that suggests the land may be affected by the 1% AEP flood. The Council is unaware of the accuracy of this information, although further enquiries may be made with the Council's City Infrastructure Department in relation to this.

Note: Refer to Question 9 of the preceding certificate under section 10.7 (2) to ascertain whether or not development on the land may be subject to flood related development controls.

B Whether or not the Council has information that would indicate that the land is subject to slip or subsidence

The Council **is not aware** of any investigations that have been carried out.

C Whether or not the land is in the vicinity of a heritage item or heritage conservation area identified in an environmental planning instrument or a proposed heritage item or proposed heritage conservation area identified in a draft local environmental plan

A building, work, relic, tree or place located on land in the vicinity of this land **is identified as a heritage item** in schedule 5 to *Bayside Local Environmental Plan 2021*.

The special provisions of clause 5.10(5) of this plan apply to development on land in the vicinity of heritage items.

D Whether or not a planning agreement entered into under Subdivision 2 of Division 7.1 of Part 7 of the *Environmental Planning and Assessment Act 1979* currently applies to the land (but only if, where the Council is not a party to the agreement, information about the agreement has been provided to the Council)

No planning agreement currently applies to the land.

E Details of the Annual Noise Exposure Forecast (ANEF) applying to the land

The property is between the **15 and 20 ANEF** (2039) contours.

Note: The ANEF level may restrict the development of the land due to the risk of exposure to aircraft noise.

F Information that indicates whether or not any additional hazards exist for which no policy of council exists to restrict development

Not applicable

G Restrictions of the use of groundwater contained within the Botany Sands Aquifer

Not Applicable

H The following policies may be applicable to the land:

Clause 6.7 of the Bayside Local Environmental Plan 2021 - Airspace operations

Section 3.7 Subsections 3.7.6 – 3.7.8 of the Bayside Development Control Plan 2022 apply to land that has potential to adversely affect Bayside's biodiversity or threatened species habitat and endangered ecological communities. Refer to Section 3.7 of the DCP for more information.

Section 9.2 of Bayside Development Control Plan 2022 (DCP) - Any development application proposing a new structure within 10 metres either side (horizontally or vertically) of the “line of sight” (as detailed in Appendix 6 of the DCP) are to be referred to Sydney Ports Corporation for review and comment, to ensure that the proposed development does not impact on the Vessel Traffic Service system. Refer to Section 9.2 of the DCP for more information.

[End of advice under Section 10.7 (5)]

IMPORTANT NOTICE TO PURCHASERS

ALTERATIONS AND ADDITIONS TO BUILDINGS

Purchasers are reminded that it is necessary to obtain development consent from the Council prior to carrying out any building alterations or additions, including brick reskinning, replacing windows or internal alterations, or for the demolition of any building, unless the proposed work is specifically exempted by *Bayside Local Environmental Plan 2021* or *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*. All other building work does require the Council's approval.

Should you require any information or advice for any building work that you propose to undertake please contact the Council's Customer Service Centre on 1300 581 299.

Bayside Council
Serving Our Community

6 May 2025

Our Ref: Certificate No. 82986
Contact: Customer Service 1300 581 299

Jbs & G Australia Pty Ltd
Level 8/179 Elizabeth St
SYDNEY NSW 2000

Dear Sir/Madam

Following is your planning certificate issued under section 10.7 (2) and (5) of the Environmental Planning and Assessment Act 1979.

This Section 10.7 Certificate has been issued by Bayside Council. Information contained within this Certificate is based on data from Council's records as they existed at the date of this Certificate.

Should you have any enquiries, please contact the Council's Customer Service Centre on 1300 581 299.

SECTION 10.7 PLANNING CERTIFICATE

(under section 10.7 of the Environmental Planning and Assessment Act 1979)

ISSUED TO:

Jbs & G Australia Pty Ltd
Level 8/179 Elizabeth St
SYDNEY NSW 2000

		Fee:	174.00
Council:	Bayside	Receipt No:	5843039
County:	Cumberland	Receipt Date:	
Parish:	St George	Your Ref:	69149:101030

PROPERTY: 68 BANKS AVENUE, PAGEWOOD NSW 2035

Lot 1 DP 35180, Lot 2 DP 35180, Lot 3 DP 35180, Lot 4 DP 35180

FI, FI, FI, FI Assessment No: 36403

Date: 6 May 2025

For
Meredith Wallace
General Manager

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Notes: (1) Where this certificate refers to a specific allotment (or allotments) within a strata plan the certificate is issued for the whole of the land within the strata plan, not just the specific allotment or allotments referred to, and any information contained in the certificate may relate to the whole or any part of the strata plan.

1 Names of relevant planning instruments and development control plans

(1) The name of each environmental planning instrument and development control plan that applies to the carrying out of development on the land.

Bayside Local Environmental Plan 2021

State Environmental Planning Policy	(Exempt and Complying Development Codes) 2008
State Environmental Planning Policy	(Housing) 2021
State Environmental Planning Policy	(Biodiversity and Conservation) 2021
State Environmental Planning Policy	(Resilience and Hazards) 2021
State Environmental Planning Policy	(Transport and Infrastructure) 2021
State Environmental Planning Policy	(Industry and Employment) 2021
State Environmental Planning Policy	(Resources and Energy) 2021
State Environmental Planning Policy	(Primary Production) 2021
State Environmental Planning Policy	(Precincts – Eastern Harbour City) 2021
State Environmental Planning Policy	(Planning Systems) 2021
State Environmental Planning Policy	(Sustainable Buildings) 2022

Bayside Development Control Plan 2022

(2) The name of each proposed environmental planning instrument and draft development control plan, which is or has been subject to community consultation or public exhibition under the Act, that will apply to the carrying out of development on the land.

State Environmental Planning Policy	(Housing) Amendment (Manufactured Home Estates, Caravan Parks and Camping Grounds) 2023
State Environmental Planning Policy	Explanation of Intended Effect Amendments to the: State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 for outdoor dining on private land and at registered clubs; and Standard Instrument – Principal Local Environmental Plan 2006 to include a new floor space bonus clause for new developments to include music venues
Explanation of Intended Effect	Changes to Deter Illegal Tree and Vegetation Clearing

Explanation of Intended Effect: Improving Planning Processes to Deliver Infrastructure Faster

The NSW Department of Planning, Housing and Infrastructure (DPHI) have placed on public exhibition an Explanation of Intended Effect (EIE) for a series of proposed reforms, which propose changes to:

- *State Environmental Planning Policy (Transport and Infrastructure) 2021* (T&I SEPP); and
- *State Environmental Planning Policy (Planning Systems) 2021* (Planning Systems SEPP).

Proposed changes to the T&I SEPP
Changes are proposed to the following sections of the T&I SEPP:

Educational establishments; Health services facilities; National Parks and Wildlife Service Land; Electricity generating works and solar energy; Greater Sydney Parklands; Emergency services facilities; Water treatment facilities; Water storage facilities; Infrastructure in coastal areas; Demolition of buildings; Temporary structures on parks and other public reserves; Electric vehicle charging units; Research and monitoring stations; Three ports planning controls; Moorebank Freight Intermodal Precinct; Australian Botanic Gardens – Mount Annan; Other changes, including a proposed restructure of the SEPP.

The proposed changes aim to:

- make it easier to deliver infrastructure at the right time, including speeding up projects that benefit the community, create jobs and support economic growth;
- do so in a way that protects residential amenity, the environment and heritage items from any impacts of this deliver;
- help ensure a consistent approach between different infrastructure activities with similar characteristics and impacts; and
- improve the usability of the SEPP.

Proposed changes to the Planning Systems SEPP
A proposed amendment to the Planning Systems SEPP alters the planning approval pathways for Water Treatment Facilities. The proposed change seeks to deliver essential infrastructure more efficiently while maintaining an appropriate level of environmental assessment.

DPHI is exhibiting this EIE in line with its Community Participation Plan, which aims to involve more people in decisions about the NSW planning system.

For more information and to make a submission on the proposed changes please visit the Have your say website on the NSW Planning Portal, available here: https://www.planningportal.nsw.gov.au/draftplans/exhibition/explanation-intended-effect-improving-planning-processes-deliver-infrastructure-faster

Public exhibition concluded on **Tuesday 16 April 2024**.

Explanation of Intended Effect: Complying Development for Farm Buildings, Rural Sheds and Earthworks

The NSW Department of Planning, Housing and Infrastructure (DPHI) have placed on

public exhibition an Explanation of Intended Effect (EIE) for changes to the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*. The changes include allowing some Complying Development Codes to apply to land identified as Acid Sulfate Soils Class 2 if a suitably qualified expert certifies that an Acid Sulfate Soils Management Plan is not required. This change would affect several Complying Development Codes that presently apply within Bayside, including the:

- Housing Code,
- Low Rise Housing Diversity Code, and
- Industrial and Business Buildings Code

Further changes are proposed, but these are not expected to apply to any land in the Bayside LGA.

For more information and to provide feedback to DPHI, please access the consultation website on the NSW Planning Portal here: https://www.planningportal.nsw.gov.au/draftplans/exhibition/proposed-changes-complying-development-farm-buildings-rural-sheds-and-earthworks

Public exhibition concluded on Friday **14 June 2024**.

Planning Proposal – Bus Shelter Advertising

On 30 August 2024, Council received a Gateway Determination to amend the Bayside Local Environmental Plan (LEP) 2021 to allow advertising on bus shelters as exempt development across the Bayside Local Government Area (LGA).

The Planning Proposal seeks to amend the Bayside LEP 2021 by including exempt development provisions to permit advertising on bus shelters under *Schedule 2 Exempt development*.

The Planning Proposal and exhibition materials can be found on Bayside Council's Have Your Say page: http://haveyoursay.bayside.nsw.gov.au.

Public exhibition concluded on **Monday 11 November 2024**.

Planning Proposal – Medium Density Residential Uses

On 10 November 2023, Council received a Gateway Determination to make amendments to the *Bayside Local Environmental Plan 2021* to land zoned R3 Medium Density Residential to facilitate development of new homes.

This proposal seeks to:

- **Increase the maximum Floor Space Ratio (FSR)** from 0.6:1 to 0.7:1, and
- **Introduce a new provision** stating that Clause 4.1 will not apply to the subdivision of land in Zone R3 on which the erection of Multi-Dwelling Housing or Attached Dwellings have been approved or are proposed.

For more information and to provide feedback, access Council's Have Your Say Page, available here: https://haveyoursay.bayside.nsw.gov.au/planning-proposal-medium-density-residential-uses

Public exhibition concluded on **Monday 11 November 2024**.

Explanation of Intended Effect: Cultural State Environmental Planning Policy (SEPP).

The NSW Department of Planning, Housing and Infrastructure (DPHI) have placed on public exhibition an Explanation of Intended Effect (EIE) for a series of proposed reforms to various Environmental Planning Instruments (EPIs) for the following purposes:

Current planning pathways

- Expand the non-refusal standards for different types of entertainment
- Develop new model conditions of consent for entertainment

Events

- Increase development standards for temporary structures used at community events
- Support events at major precincts by enabling more events across new and existing sites
- Support Vivid Sydney with exempt development standards for the temporary light and sound structures
- Allow temporary extended trading hours for unlicensed businesses during special events
- Support events in town halls

Outdoor dining and food trucks

- Investigate providing outdoor music and outdoor dining patron increases using exempt development
- Extend exempt development pathways to make outdoor dining easier at farm gate premises
- Improve provisions for food trucks in residential and conservation zones, and investigate measures for food businesses using shipping containers

Changes to the Business and Industrial Codes in the Codes SEPP

- Allow a change of use in the SP4 enterprise zone
- Development standards to retrofit bike rails and bike lockers in existing buildings

For more information and to make a submission on the proposed changes please visit the Have your say website on the NSW Planning Portal, available here: https://www.planningportal.nsw.gov.au/draftplans/exhibition/explanation-intended-effect-cultural-state-environmental-planning-policy-sepp

Public exhibition concluded on **Friday 7 February 2025**.

No draft Development Control Plan applies to the land.

(3) Subsection (2) does not apply in relation to a proposed environmental planning instrument or draft development control plan if—

a) it has been more than 3 years since the end of the public exhibition period for the proposed instrument or draft plan, or

b) for a proposed environmental planning instrument—the Planning Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved.

(4) In this section—
***proposed environmental planning instrument* means a draft environmental planning instrument and includes a planning proposal for a local environmental plan.**

2 Zoning and land use under relevant planning instruments

The following matters for each environmental planning instrument or draft environmental planning instrument that includes the land in a zone, however described—

(a) the identity of the zone, whether by reference to—
(i) a name, such as "Residential Zone" or "Heritage Area", or
(ii) a number, such as "Zone No 2 (a)",
(b) the purposes for which development in the zone—
(i) may be carried out without development consent, and
(ii) may not be carried out except with development consent, and
(iii) is prohibited,

The following zone or zones apply under the environmental planning instrument or draft environmental planning instrument referred to in section 1(1):

Zone R3 Medium Density Residential

1 Objectives of zone

- To provide for the housing needs of the community within a medium density residential environment.
- To provide a variety of housing types within a medium density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure land uses are carried out in a context and setting to minimise impact on the character and amenity of the area.
- To enable residential development in accessible locations to maximise public transport patronage and encourage walking and cycling.

2 Permitted without consent

Home-based child care; Home occupations

3 Permitted with consent

Attached dwellings; Bed and Breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Dual Occupancies; Dwelling houses; Educational establishments; Environmental protection works; Exhibition homes; Flood mitigation works; Group homes; Health service facilities; Home businesses; Home industries; Hostels; Multi dwelling housing; Neighbourhood shops; Oyster aquaculture; Places of public worship; Recreation areas; Respite day care centres; Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing; Tank-based aquaculture; Water supply systems

4 Prohibited

Any other development not specified in item 2 or 3

(c) whether additional permitted uses apply to the land,

35 Use of certain land in R3 Medium Density Residential zone for residential flat buildings

(1) This clause applies to land identified as “35” on the Additional Permitted Uses Map.

(2) Development for the purposes of a residential flat building is permitted with development consent.

(d) whether development standards applying to the land fix minimum land dimensions for the erection of a dwelling house on the land and, if so, the fixed minimum land dimensions,

No development standards apply to the land that fixes minimum land dimensions for the erection of a dwelling house.

Note: The above information does not imply that the erection of a dwelling-house is necessarily permissible on the land to which this certificate applies. Refer to the relevant local environmental plan, deemed environmental planning instrument or draft local environmental plan applying to the land to confirm this.

(e) whether the land is in an area of outstanding biodiversity value under the *Biodiversity Conservation Act 2016*,

The land **is not** an area of outstanding biodiversity value.

(f) whether the land is in a conservation area, however described,

The land **is not** in a conservation area.

(g) whether an item of environmental heritage, however described, is located on the land.

There is **no such item** situated on the land.

3 Contributions plans

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

City of Botany Section 7.11 Development Contributions Plan 2016
City of Botany Bay Section 94A Development Contributions Plan 2016

Note: For a copy of the plans please access Bayside Council’s website at www.bayside.nsw.gov.au.

Note: If land is within the former Rockdale City Local Government Area, the *Rockdale Section 94 Contributions Plan (Amendment No 4)* and *Rockdale Section 94 Contributions Plan 1998* will continue to apply to all Development Applications and applications for Complying Development Certificates made prior to 1 June 2004.

(2) If the land is in a region within the meaning of the Act, Division 7.1, Subdivision 4—

(a) the name of the region, and

(b) the name of the Ministerial planning order in which the region is identified.

The land is within the Greater Sydney region. The *Environmental Planning and Assessment (Housing and Productivity Contribution) Order 2024* applies to this land.

(3) If the land is in a special contributions area to which a continued 7.23 determination applies, the name of the area.

(4) In this section—
***continued 7.23 determination* means a 7.23 determination that—**
(a) has been continued in force by the Act, Schedule 4, Part 1, and
(b) has not been repealed as provided by that part.

The land is not within a special contributions area to which a continued 7.23 determination applies.

Note: The Act, Schedule 4, Part 1 contains other definitions that affect the interpretation of this section.

4 Complying development

(1) If the land is land on which complying development may be carried out under each of the complying development codes under *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*, because of that Policy, clause 1.17A(1)(c)–(e), (2), (3) or (4), 1.18(1)(c3) or 1.19.

(2) If complying development may not be carried out on the land because of 1 of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that—
(a) a restriction applies to the land, but it may not apply to all of the land, and
(b) the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

(4) If the complying development codes are varied, under that Policy, clause 1.12, in relation to the land.

Housing Code
Complying development **may be** carried out on the land under the above code.
Inland Code
Complying development **may be** carried out on the land under the above code.

Low Rise Housing Diversity Code
Complying development **may be** carried out on the land under the above code.

Rural Housing Code
Complying development **may be** carried out on the land under the above code.
Greenfield Housing Code
Complying development **may be** carried out on the land under the above code.
Industrial and Business Buildings Code

Complying development **may be** carried out on the land under the above code.

Housing Alterations Code
Complying development **may be** carried out on the land under the above code.

General Development Code
Complying development **may be** carried out on the land under the above code.

Industrial and Building Alterations Code
Complying development **may be** carried out on the land under the above code.

Container Recycling Facilities Code
Complying development **may be** carried out on the land under the above code.

Subdivisions Code
Complying development **may be** carried out on the land under the above code.

Demolition Code
Complying development **may be** carried out on the land under the above code.

Fire Safety Code
Complying development **may be** carried out on the land under the above code.

Notes:
(1) If a reference is made to "part of the land", Complying Development **may be** carried out on the portion of the land not subject to such a restriction.
(2) This certificate only addresses matters raised in Clause 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1)(c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*. It is your responsibility to ensure that you comply with any other general requirements of the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.

5 Exempt development

(1) If the land is land on which exempt development may be carried out under each of the exempt development codes under *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*, because of that Policy, clause 1.16(1)(b1)–(d) or 1.16A.

(2) If exempt development may not be carried out on the land because of 1 of those clauses, the reasons why it may not be carried out under the clause.

(3) If the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land, a statement that—
- **(a) a restriction applies to the land, but it may not apply to all of the land, and**
- **(b) the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land.**

(4) If the exempt development codes are varied, under that Policy, clause 1.12, in relation to the land.

General Exempt Development Code
Exempt development **may be** carried out on the land under the above code.

Advertising and Signage Exempt Development Code

Exempt development **may be** carried out on the land under the above code.

Temporary Uses and Structures Exempt Development Code
Exempt development **may be** carried out on the land under the above code.

6 Affected building notices and building product rectification orders

(1) Whether the council is aware that—

a) an affected building notice is in force in relation to the land, or

b) a building product rectification order is in force in relation to the land that has not been fully complied with, or

c) a notice of intention to make a building product rectification order given in relation to the land is outstanding.

(2) In this section—
***affected building notice* has the same meaning as in the *Building Products (Safety) Act 2017*, Part 4.**

***building product rectification order* has the same meaning as in the *Building Products (Safety) Act 2017*.**

Council **is not aware of an issue** of a notice of intention or order pertaining to building product rectification works (Building Products Safety Act 2017).

7 Land reserved for acquisition

Whether an environmental planning instrument or proposed environmental planning instrument referred to in section 1 makes provision in relation to the acquisition of the land by an authority of the State, as referred to in the Act, section 3.15.

The land **is not affected** by any provision in an environmental planning instrument, deemed environmental planning instrument or draft environmental planning instrument that provides for the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

8 Road widening and road realignment

Whether the land is affected by any road widening or road realignment under—

(a) the *Roads Act 1993*, Part 3, Division 2, or

The land **is not affected by** any road widening or road realignment under Division 2 of Part 3 of the *Roads Act 1993.*

(b) an environmental planning instrument, or

The land **is not affected by** any road widening or road realignment under any environmental planning instrument.

(c) a resolution of the council.

The land **is not affected by** any road widening or road realignment under any resolution of the Council.

9 Flood related development controls

(1) If the land or part of the land is within the flood planning area and subject to flood related development controls.

Yes – The land or part of the land **is** within the flood planning area and **is** subject to flood related development controls under the following:

- *Bayside Local Environmental Plan 2021*
- *Bayside Development Control Plan 2022*

(2) If the land or part of the land is between the flood planning area and the probable maximum flood and subject to flood related development controls.

Yes – The land or part of the land **is** between the flood planning area and the probable maximum flood and **is** subject to flood related development controls under the following:

- *Bayside Local Environmental Plan 2021*
- *Bayside Development Control Plan 2022*

Note: (1) Further information relating to flooding is provided in the "Advice under Section 10.7 (5)" attached.

Note:
(1) The answers above do not imply that the development referred to is necessarily permissible on the land to which this certificate applies. Refer to the relevant local environmental plan, deemed environmental planning instrument or draft local environmental plan applying to the land to confirm this.
(2) Council is not in a position to identify whether the information provided under section 9 relates to a current or future hazard as defined in Planning Circular PS 14-003.

(3) In this section—
***flood planning area* has the same meaning as in the Flood Risk Management Manual.**

***Flood Risk Management Manual* means the Flood Risk Management Manual, ISBN 978-1-923076-17-4, published by the NSW Government in June 2023.**

***probable maximum flood* has the same meaning as in the *Flood Risk Management Manual*.**

10 Council and other public authority policies on hazard risk restrictions

(1) Whether any of the land is affected by an adopted policy that restricts the development of the land because of the likelihood of land slip, bush fire, tidal inundation, subsidence, acid sulfate soils, contamination, aircraft noise, salinity, coastal hazards, sea level rise or another risk, other than flooding.

(2) In this section—

***adopted policy* means a policy adopted—**

- **(a) by the council, or**
- **(b) by another public authority, if the public authority has notified the council that the policy will be included in a planning certificate issued by the council.**

Bayside Development Control Plan 2022 – provisions of Section 3.11 - Contamination

11 Bush fire prone land

(1) If any of the land is bush fire prone land, designated by the Commissioner of the NSW Rural Fire Service under the Act, section 10.3, a statement that all or some of the land is bush fire prone land.

(2) If none of the land is bush fire prone land, a statement to that effect.

The land **is not** bush fire prone land.

12 Loose-fill asbestos insulation

If the land includes residential premises, within the meaning of the *Home Building Act 1989*, Part 8, Division 1A, that are listed on the Register kept under that Division, a statement to that effect.

The land **is not** so listed.

13 Mine subsidence

Whether the land is declared to be a mine subsidence district within the meaning of the *Coal Mine Subsidence Compensation Act 2017*.

The land **is not** so proclaimed.

14 Paper subdivision information

(1) The name of a development plan adopted by a relevant authority that–
- **(a) applies to the land, or**
- **(b) is proposed to be subject to a ballot.**

(2) The date of a subdivision order that applies to the land.

(3) Words and expressions used in this section have the same meaning as in this Regulation, Part 10 and the Act, Schedule 7.

The land **is not** so affected.

15 Property vegetation plans

If the land is land in relation to which a property vegetation plan is approved and in force under the *Native Vegetation Act 2003*, Part 4, a statement to that effect, but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act.

The land **is not** land to which a property vegetation plan applies.

16 Biodiversity stewardship sites

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under the *Biodiversity Conservation Act 2016*, Part 5, a statement to that effect, but only if the council has been notified of the existence of the agreement by the Biodiversity Conservation Trust.

Note— *Biodiversity stewardship agreements include biobanking agreements under the Threatened Species Conservation Act 1995, Part 7A that are taken to be biodiversity stewardship agreements under the Biodiversity Conservation Act 2016, Part 5.*

The land **is not** subject to any such agreement.

17 Biodiversity certified land

If the land is biodiversity certified land under the *Biodiversity Conservation Act 2016*, Part 8, a statement to that effect.

Note— *Biodiversity certified land includes land certified under the Threatened Species Conservation Act 1995, Part 7AA that is taken to be certified under the Biodiversity Conservation Act 2016, Part 8.*

The land **is not** biodiversity certified land.

18 Orders under *Trees (Disputes Between Neighbours) Act 2006*

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land, but only if the council has been notified of the order.

The land **is not** subject to such an order.

19 Annual charges under *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works

(1) **If the *Coastal Management Act 2016* applies to the council, whether the owner, or a previous owner, of the land has given written consent to the land being subject to annual charges under the *Local Government Act 1993*, section 496B, for coastal protection services that relate to existing coastal protection works.**

(2) **In this section—**
***existing coastal protection works* has the same meaning as in the *Local Government Act 1993*, section 553B.**

Note— Existing coastal protection works are works to reduce the impact of coastal hazards on land, such as seawalls, revetments, groynes and beach nourishment, that existed before 1 January 2011.

The land **is not** subject to annual charges.

20 Western Sydney Aerotropolis

Whether under *State Environmental Planning Policy (Precincts—Western Parkland City) 2021*, Chapter 4 the land is—

(a) **in an ANEF or ANEC contour of 20 or greater, as referred to in that Chapter, section 4.17, or**
(b) **shown on the Lighting Intensity and Wind Shear Map, or**
(c) **shown on the Obstacle Limitation Surface Map, or**
(d) **in the "public safety area" on the Public Safety Area Map, or**
(e) **in the "3 kilometre wildlife buffer zone" or the "13 kilometre wildlife buffer zone" on the Wildlife Buffer Zone Map.**

The land **is not** subject to the *State Environmental Planning Policy (Precincts—Western*

Parkland City) 2021, Chapter 4.

21 Development consent conditions for seniors housing

If *State Environmental Planning Policy (Housing) 2021*, Chapter 3, Part 5 applies to the land, any conditions of a development consent granted after 11 October 2007 in relation to the land that are of the kind set out in that Policy, section 88(2).

The land **is not** subject to any such statement.

22 Site compatibility certificates and development consent conditions for affordable rental housing

(1) Whether there is a current site compatibility certificate under *State Environmental Planning Policy (Housing) 2021*, or a former site compatibility certificate, of which the council is aware, in relation to proposed development on the land and, if there is a certificate—

(a) the period for which the certificate is current, and

(b) that a copy may be obtained from the Department.

The land **is not** subject to any such certificate.

(2) If *State Environmental Planning Policy (Housing) 2021*, Chapter 2, Part 2, Division 1 or 5 applies to the land, any conditions of a development consent in relation to the land that are of a kind referred to in that Policy, clause 21(1) or 40(1).

The land **is not** subject to any such statement.

(3) Any conditions of a development consent in relation to land that are of a kind referred to in *State Environmental Planning Policy (Affordable Rental Housing) 2009*, clause 17(1) or 38(1).

The land **is not** subject to any such statement.

(4) In this section—
former site compatibility certificate* means a site compatibility certificate issued under *State Environmental Planning Policy (Affordable Rental Housing) 2009.

23 Water or sewerage services

If water or sewerage services are, or are to be provided to the land under the *Water Industry Competition Act 2006*, a statement to that effect.

Note— A public water utility may not be the provider of some or all of the services to the land. If a water or sewerage service is provided to the land by a licensee under the *Water Industry Competition Act 2006*, a contract for the service will be deemed to have been entered into between the licensee and the owner of the land. A register relating to the approvals and licenses necessary for the provision of water or sewerage services under the *Water Industry Competition Act 2006* is maintained by the Independent Pricing and Regulatory Tribunal and provides information about the areas serviced, or to be serviced under that Act. Purchasers should check the register to understand who will service the property. Outstanding charges for water or sewerage services provided under the *Water Industry Competition Act 2006* become the responsibility of the purchaser.

Council has not been advised of any water or sewerage services that are, or are to be provided to the land under the *Water Industry Competition Act 2006*. Property purchasers are directed to

check the IPART website for further information:
https://www.ipart.nsw.gov.au/Home/About-IPART/Governing-Legislation/Water-Industry-Competition-Act-2006

Section 59(2) Contaminated Land Management Act 1997

Note: The following matters are prescribed by section 59 (2) of *the Contaminated Land Management Act 1997* as additional matters to be specified in a planning certificate:

(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act—if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued;

Not applicable

(b) that the land to which the certificate relates is subject to a management order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued;

Not applicable

(c) that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act—if it is the subject of such an approved proposal at the date when the certificate is issued;

Not applicable

(d) that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued; and

Not applicable

(e) that the land to which the certificate relates is the subject of a site audit statement within the meaning of that Act—if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

Not applicable

[End of information under section 10.7 (2)]

ADVICE UNDER SECTION 10.7 (5)

Note: The Council is under no obligation to furnish any of the information supplied below. Equally, it may be that not every relevant matter relating to the land is provided below. The Council draws your attention to section 10.7 (6) of the *Environmental Planning and Assessment Act 1979* which states that a council shall not incur any liability in respect of any advice provided in good faith under section 10.7 (5).

Further to your application for information under section 10.7 (5) of the *Environmental Planning & Assessment Act 1979* (EP&A Act), the Council has resolved to supply answers to the following questions:

A Whether or not the Council has information that would indicate that the land is subject to the risk of flooding or tidal inundation for a 1% annual exceedance probability (AEP) (1 in 100 Year) event

The Council **is aware** of various information that suggests the land may be affected by the 1% AEP flood. The Council is unaware of the accuracy of this information, although further enquiries may be made with the Council's City Infrastructure Department in relation to this.

Note: Refer to Question 9 of the preceding certificate under section 10.7 (2) to ascertain whether or not development on the land may be subject to flood related development controls.

B Whether or not the Council has information that would indicate that the land is subject to slip or subsidence

The Council **is not aware** of any investigations that have been carried out.

C Whether or not the land is in the vicinity of a heritage item or heritage conservation area identified in an environmental planning instrument or a proposed heritage item or proposed heritage conservation area identified in a draft local environmental plan

A building, work, relic, tree or place located on land in the vicinity of this land **is identified as a heritage item** in schedule 5 to *Bayside Local Environmental Plan 2021*.

The special provisions of clause 5.10(5) of this plan apply to development on land in the vicinity of heritage items.

D Whether or not a planning agreement entered into under Subdivision 2 of Division 7.1 of Part 7 of the *Environmental Planning and Assessment Act 1979* currently applies to the land (but only if, where the Council is not a party to the agreement, information about the agreement has been provided to the Council)

No planning agreement currently applies to the land.

E Details of the Annual Noise Exposure Forecast (ANEF) applying to the land

The property is between the **15 and 20 ANEF** (2039) contours.

Note: The ANEF level may restrict the development of the land due to the risk of exposure to aircraft noise.

F Information that indicates whether or not any additional hazards exist for which no policy of council exists to restrict development

Not applicable

G Restrictions of the use of groundwater contained within the Botany Sands Aquifer

Not Applicable

H The following policies may be applicable to the land:

Clause 6.7 of the Bayside Local Environmental Plan 2021 - Airspace operations

Section 9.2 of Bayside Development Control Plan 2022 (DCP) - Any development application proposing a new structure within 10 metres either side (horizontally or vertically) of the “line of sight” (as detailed in Appendix 6 of the DCP) are to be referred to Sydney Ports Corporation for review and comment, to ensure that the proposed development does not impact on the Vessel Traffic Service system. Refer to Section 9.2 of the DCP for more information.

Section 3.7 Subsections 3.7.6 – 3.7.8 of the Bayside Development Control Plan 2022 apply to land that has potential to adversely affect Bayside's biodiversity or threatened species habitat and endangered ecological communities. Refer to Section 3.7 of the DCP for more information.

[End of advice under Section 10.7 (5)]

Appendix E Field Logs

SOIL BOREHOLE BH01

PROJECT NUMBER 69149	**DRILLING COMPANY** Legion Drilling	**EASTING** 335947.536
PROJECT NAME Pagewood	**DRILL RIG** GeoProbe	**NORTHING** 6243477.390
CLIENT Homes NSW	**DRILLING METHOD** Push Tube	**COORD SYS** GDA 2020 MGA 56
ADDRESS 68-80 Banks Avenue	**DIAMETER**	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 16 Jun 2025		**LOGGED BY** NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
PT	0.1 0.2 0.3		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of roots and rocks.	DR	BH01_0-0.1	No odours, staining or asbestos observed. 10 L asbestos quantification conducted at 0-0.3 mbgs. QA/QC01_20250616_J taken at 0-0.1 mbgs.
	0.4 0.5 0.6 0.7 0.8 0.9 1		Natural - SAND, yellow/brown, homogeneous, dry, poorly graded, medium sand loose, with no inclusions.	DR	BH01_0.30-0.40 BH01_0.50-0.60 BH01_0.90-1.00	No odours, staining or asbestos observed.
	1.1 1.2 1.3 1.4		Termination Depth at: 1.00 m bgl			

GROUNDWATER WELL BH02/MW01

PROJECT NUMBER 69149	**DRILLING COMPANY** Legion Drilling	**EASTING** 335974.350
PROJECT NAME Pagewood	**DRILL RIG** GeoProbe	**NORTHING** 6243479.657
CLIENT Homes NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SYS** GDA 2020 MGA 56
ADDRESS 68-80 Banks Avenue	**TOTAL DEPTH** 10.00 m bgl	**ELEVATION**
DRILLING DATE 13 Jun 2025	**DIAMETER** 50	**LOGGED BY** NB
PERMIT NO.		**CHECKED BY** LH

COMPLETION | **CASING** | **SCREEN INTERVAL** - m bgl

COMMENTS

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
SFA	▽		0.5		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of roots.	DR	BH02/MW01_0.0 BH02/MW01_0.3	No odours, staining or asbestos observed. 10 L asbestos quantification conducted at 0-0.3 mbgs.
			1		Fill - SAND, grey/yellow, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of roots and glass.	DR	BH02/MW01_0.5	
			1.5		Natural - SAND, grey, homogeneous, dry, poorly graded, medium sand medium dense, with no inclusions.	DR	BH02/MW01_1.0	No odours, staining or asbestos observed. 10 L asbestos quantification conducted at 0.3-0.5 mbgs.
			2					No odours, staining or asbestos observed.
			2.5				BH02/MW01_2.0	
			3		Natural - SAND, yellow/light brown/golden, homogeneous, dry, poorly graded, medium sand medium dense, with no inclusions.	DR	BH02/MW01_3.0	No odours, staining or asbestos observed.
			3.5					
			4				BH02/MW01_4.0	
			4.5		Natural - SAND, yellow/light brown, homogeneous, dry, poorly graded, medium sand medium dense, with no inclusions.	DR		No odours, staining or asbestos observed.
			5		Natural - SAND, light yellow/white, homogeneous, damp, poorly graded, medium sand medium dense, with no inclusions.	DP	BH02/MW01_5.0	No odours, staining or asbestos observed.
			5.5					
			6				BH02/MW01_6.0	
			6.5		Natural - SAND, light yellow/white, homogeneous, moist, poorly graded, medium sand medium dense, with no inclusions.	M		No odours, staining or asbestos observed.
			7				BH02/MW01_7.0	
			7.5					
			8		Natural - SAND, light grey, homogeneous, wet, poorly graded, medium sand medium dense, with no inclusions.	W	BH02/MW01_8.0	No odours, staining or asbestos observed.
			8.5					
			9				BH02/MW01_9.0	
			9.5		Natural - SAND, dark grey, homogeneous, wet, poorly graded, medium sand medium dense, with no inclusions.	W		No odours, staining or asbestos observed.
			10				BH02/MW01_9.9	
					Termination Depth at: 10.00 m bgl			

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SOIL BOREHOLE BH03

PROJECT NUMBER 69149
PROJECT NAME Pagewood
CLIENT Homes NSW
ADDRESS 68-80 Banks Avenue
DRILLING DATE 16 Jun 2025

DRILLING COMPANY Legion Drilling
DRILL RIG GeoProbe
DRILLING METHOD Push Tube
DIAMETER

EASTING 335942.953
NORTHING 6243451.758
COORD SYS GDA 2020 MGA 56
TOTAL DEPTH 1.50 m bgl
LOGGED BY NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
PT	0.1		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of roots, rocks and trace brick.	DR	BH03_0-0.1	No odours, staining or asbestos observed. 10 L asbestos quantification conducted at 0-0.4 mbgs. QA/QC01_20250616 taken at 0-0.1 mbgs.
	0.2					
	0.3				BH03_0.30-0.40	
	0.4		Natural - SAND, brown/grey, homogeneous, dry, poorly graded, medium sand loose, with no inclusions.	DR		No odours, staining or asbestos observed.
	0.5				BH03_0.50-0.60	
	0.6					
	0.7					
	0.8					
	0.9				BH03_0.90-1.00	
SFA	1					
	1.1					
	1.2					
	1.3					
	1.4					
	1.5		Termination Depth at: 1.50 m bgl			

SOIL BOREHOLE BH04

PROJECT NUMBER 69149
PROJECT NAME Pagewood
CLIENT Homes NSW
ADDRESS 68-80 Banks Avenue
DRILLING DATE 16 Jun 2025

DRILLING COMPANY Legion Drilling
DRILL RIG
DRILLING METHOD Hand Auger
DIAMETER

EASTING 335969.593
NORTHING 6243446.184
COORD SYS GDA 2020 MGA 56
TOTAL DEPTH 0.70 m bgl
LOGGED BY NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
HA	0.1 0.2 0.3 0.4		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of terracotta pieces, rocks and roots.	DR	BH04_0_0.1 BH04_0_0.4 BH04_0.00-0.10 BH04_0.3_0.4 BH04_0.30-0.40	No odours, staining or asbestos observed. 10 L asbestos quantificiation conducted at 0-0.4 mbgs.
	0.5 0.6 0.7		Natural - SAND, brown/grey, homogeneous, dry, poorly graded, medium sand loose, with no inclusions.	DR	BH04_0.50-0.60	No odours, staining or asbestos observed. QA/QC01_20250616_AQ taken at 0-0.1 mbgs
	0.8 0.9 1 1.1 1.2 1.3 1.4		Termination Depth at: 0.70 m bgl			

SOIL BOREHOLE BH05

PROJECT NUMBER 69149
PROJECT NAME Pagewood
CLIENT Homes NSW
ADDRESS 68-80 Banks Avenue
DRILLING DATE 16 Jun 2025

DRILLING COMPANY Legion Drilling
DRILL RIG GeoProbe
DRILLING METHOD Push Tube
DIAMETER

EASTING 335937.215
NORTHING 6243426.954
COORD SYS GDA 2020 MGA 56
TOTAL DEPTH 1.20 m bgl
LOGGED BY NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
PT	0.1 0.2 0.3 0.4 0.5		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of terracotta, gravels/rocks and roots.	DR	BH05_0_0.1 BH05_0_0.5 BH05_0.00-0.10 BH05_0.3_0.4 BH05_0.30-0.40	No odours, staining or asbestos observed. 10 L asbestos quantification conducted at 0-0.5 mbgs. QA/QC02_20250616 and QA/QC02_20250616_J taken at 0-0.1 mbgs.
SFA	0.6 0.7 0.8 0.9 1 1.1 1.2		Natural - SAND, light brown/yellow, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH05_0.50-0.60 BH05_0.90-1.00	No odours, staining or asbestos observed.
	1.3 1.4		Termination Depth at: 1.20 m bgl			

SOIL BOREHOLE BH06

PROJECT NUMBER 69149	**DRILLING COMPANY** Legion Drilling	**EASTING** 335965.995
PROJECT NAME Pagewood	**DRILL RIG**	**NORTHING** 6243421.000
CLIENT Homes NSW	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA 2020 MGA 56
ADDRESS 68-80 Banks Avenue	**DIAMETER**	**TOTAL DEPTH** 0.80 m bgl
DRILLING DATE 16 Jun 2025		**LOGGED BY** NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
HA	0.1 0.2 0.3 0.4		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of roots, terracotta, gravels and shale.	DR	BH06_0_0.1 BH06_0_0.4 BH06_0.00-0.10 BH06_0.3_0.4 BH06_0.30-0.40	No odours, staining or asbestos observed. 10 L asbestos quantification conducted at 0-0.4 mbgs. QA/QC03_20250616_J taken at 0-0.1 mbgs.
	0.5 0.6 0.7 0.8		Natural - SAND, light brown/grey, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH06_0.50-0.60	No odours, staining or asbestos observed.
	0.9 1 1.1 1.2 1.3 1.4		Termination Depth at: 0.80 m bgl			

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SOIL BOREHOLE BH07

PROJECT NUMBER 69149
PROJECT NAME Pagewood
CLIENT Homes NSW
ADDRESS 68-80 Banks Avenue
DRILLING DATE 16 Jun 2025

DRILLING COMPANY Legion Drilling
DRILL RIG GeoProbe
DRILLING METHOD Push Tube
DIAMETER

EASTING 335933.722
NORTHING 6243404.014
COORD SYS GDA 2020 MGA 56
TOTAL DEPTH 1.10 m bgl
LOGGED BY NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
PT	0.1 0.2 0.3 0.4		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of sandstone gravels and roots.	DR	BH07_0_0.1 BH07_0_0.4 BH07_0.00-0.10 BH07_0.30-0.40	No odours, staining or asbestos observed. 10 L asbestos quantificiation conducted at 0-0.4 mbgs.
SFA	0.5 0.6 0.7 0.8 0.9 1 1.1		Natural - SAND, light brown/yellow, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH07_0.50-0.60 BH07_0.90-1.00	No odours, staining or asbestos observed.
	1.2 1.3 1.4		Termination Depth at: 1.10 m bgl			

SOIL BOREHOLE BH09

PROJECT NUMBER 69149	**DRILLING COMPANY** Legion Drilling	**EASTING** 335926.823
PROJECT NAME Pagewood	**DRILL RIG** GeoProbe	**NORTHING** 6243374.784
CLIENT Homes NSW	**DRILLING METHOD** Push Tube	**COORD SYS** GDA 2020 MGA 56
ADDRESS 68-80 Banks Avenue	**DIAMETER**	**TOTAL DEPTH** 1.20 m bgl
DRILLING DATE 16 Jun 2025		**LOGGED BY** NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
PT	0.1 0.2 0.3		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of rootlets and gravels.	DR	BH09_0_0.1 BH09_0_0.3 BH09_0.00-0.10	No odours, staining or asbestos observed. 10 L asbestos quantificiation conducted at 0-0.3 mbgs.
SFA	0.4 0.5 0.6 0.7 0.8 0.9 1 1.1 1.2		Natural - SAND, light brown, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH09_0.30-0.40 BH09_0.50-0.60 BH09_0.90-1.00	No odours, staining or asbestos observed.
	1.3 1.4		Termination Depth at: 1.20 m bgl			

SOIL BOREHOLE BH08

PROJECT NUMBER 69149
PROJECT NAME Pagewood
CLIENT Homes NSW
ADDRESS 68-80 Banks Avenue
DRILLING DATE 13 Jun 2025

DRILLING COMPANY Legion Drilling
DRILL RIG GeoProbe
DRILLING METHOD Solid Flight Auger
DIAMETER

EASTING 335961.383
NORTHING 6243401.185
COORD SYS GDA 2020 MGA 56
TOTAL DEPTH 8.00 m bgl
LOGGED BY NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
SFA	0.5		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of roots and trace gravels/rocks.	DR	BH08_0_0.1 BH08_0_0.3	No odours, staining or asbestos observed. 10 L asbestos quantification conducted at 0-0.3 mbgs.
				DR	BH08_0.00-0.10	
	1		Fill - SAND, light grey, heterogeneous, dry, poorly graded, medium sand loose, wirth inclusions of rootlets.	DP	BH08_0.3_0.4 BH08_0.3_0.5	No odours, staining or asbestos observed. 10 L asbestos quantification conducted at 0.3-0.5 mbgs. QA/QC01_20250613_AQ taken 0.3-0.5 mbgs.
	1.5		Natural - SAND, light brown, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.		BH08_0.30-0.40 BH08_0.50-0.60 BH08_1.00-1.10	No odours, staining or asbestos observed.
	2		Natural - SAND, light grey, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH08_2_2.1 BH08_2.00-2.10	No odours, staining or asbestos observed. QA/QC01_20250613 taken at 2.0-2.1 mbgs
	2.5					
	3		Natural - SAND, orange/brown, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH08_3.00-3.10	No odours, staining or asbestos observed. QA/QC01_20250613_J taken at 2.9-3.0 mbgs.
	3.5					
	4		Natural - SAND, light yellow/white/light brown, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP		No odours, staining or asbestos observed.
	4.5					
	5					
	5.5					
	6					
	6.5					
	7					
	7.5					
	8		Termination Depth at: 8.00 m bgl			

SOIL BOREHOLE BH10

PROJECT NUMBER 69149	**DRILLING COMPANY** Legion Drilling	**EASTING** 335955.896
PROJECT NAME Pagewood	**DRILL RIG**	**NORTHING** 6243380.722
CLIENT Homes NSW	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA 2020 MGA 56
ADDRESS 68-80 Banks Avenue	**DIAMETER**	**TOTAL DEPTH** 0.70 m bgl
DRILLING DATE 16 Jun 2025		**LOGGED BY** NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
HA	0.1 0.2 0.3		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of roots and gravels.	DR	BH10_0_0.1 BH10_0_0.3 BH10_0.00-0.10	No odours, staining or asbestos observed. 10 L asbestos quantificiation conducted at 0-0.3 mbgs.
	0.4 0.5 0.6 0.7		Natural - SAND, grey/light brown, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH10_0.30-0.40 BH10_0.50-0.60	No odours, staining or asbestos observed.
	0.8 0.9 1 1.1 1.2 1.3 1.4		Termination Depth at: 0.70 m bgl			

GROUNDWATER WELL BH11/MW02

PROJECT NUMBER 69149	**DRILLING COMPANY** Legion Drilling	**EASTING** 335920.450
PROJECT NAME Pagewood	**DRILL RIG** GeoProbe	**NORTHING** 6243348.419
CLIENT Homes NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SYS** GDA 2020 MGA 56
ADDRESS 68-80 Banks Avenue	**TOTAL DEPTH** 10.00 m bgl	**ELEVATION**
DRILLING DATE 13 Jun 2025	**DIAMETER**	**LOGGED BY** NB
PERMIT NO.		**CHECKED BY** LH

COMPLETION | **CASING** | **SCREEN INTERVAL** - m bgl

COMMENTS

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
SFA	▽		0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand very loose, with no inclusions.	DR	BH11/MW02_0.0	No odours or staining observed. Potential ACM fragment observed. 10 L asbestos quantification conducted at 0-0.3 mbgs. QA/QC01_20250613_J at 0-0.1 mbgs.
					Natural - SAND, brown/yellow, homogeneous, damp, poorly graded, medium sand dense, with no inclusions.	DP	BH11/MW02_0.3 BH11/MW02_0.5	
					Natural - SAND, light grey/yellow/light brown, homogeneous, damp, poorly graded, medium sand dense, with no inclusions.	DP	BH11/MW02_1.0	No odours, staining or asbestos observed.
					Natural - SAND, grey, homogeneous, moist, poorly graded, medium sand dense, with no inclusions.	M	BH11/MW02_2.0	No odours, staining or asbestos observed. No odours, staining or asbestos observed.
					Natural - SAND, dark brown, homogeneous, moist, poorly graded, medium sand dense, with no inclusions.	M	BH11/MW02_3.0 BH11/MW02_4.0	No odours, staining or asbestos observed.
					Natural - SAND, yellow/light brown, homogeneous, moist, poorly graded, medium sand dense, with no inclusions.	M	BH11/MW02_5.0 BH11/MW02_6.0	No odours, staining or asbestos observed.
					Natural - SAND, yellow/light brown, homogeneous, wet, poorly graded, medium sand dense, with no inclusions.	W	BH11/MW02_7.0	No odours, staining or asbestos observed.
					Natural - SAND, light grey, homogeneous, wet, poorly graded, medium sand dense, with no inclusions.	W	BH11/MW02_8.0	No odours, staining or asbestos observed.
					Natural - SAND, dark grey, homogeneous, saturated, poorly graded, medium sand dense, with no inclusions.	S	BH11/MW02_9.0 BH11/MW02_9.9	No odours, staining or asbestos observed.
					Termination Depth at: 10.00 m bgl			

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SOIL BOREHOLE BH12

PROJECT NUMBER 69149	**DRILLING COMPANY** Legion Drilling	**EASTING** 335947.419
PROJECT NAME Pagewood	**DRILL RIG**	**NORTHING** 6243352.898
CLIENT Homes NSW	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA 2020 MGA 56
ADDRESS 68-80 Banks Avenue	**DIAMETER**	**TOTAL DEPTH** 0.80 m bgl
DRILLING DATE 17 Jun 2025		**LOGGED BY** NB/NP/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
HA	0.1 0.2 0.3		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of roots and gravels.	DR	BH12_0_0.1 BH12_0_0.3 BH12_0.00-0.10 BH12_0.3_0.4	No odours or staining observed. Potential ACM fragment observed (BH12_FRAG). 10 L asbestos quantification conducted at 0-0.3 mbgs. QA/QC01_20250617 and QA/QC01_20250617_J taken at 0-0.1 mbgs.
	0.4 0.5 0.6 0.7 0.8		Natural - SAND, light brown/yellow, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH12_0.30-0.40 BH12_0.50-0.60	No odours, staining or asbestos observed.
	0.9 1 1.1 1.2 1.3 1.4		Termination Depth at: 0.80 m bgl			

SOIL BOREHOLE BH13

PROJECT NUMBER 69149
PROJECT NAME Pagewood
CLIENT Homes NSW
ADDRESS 68-80 Banks Avenue
DRILLING DATE 17 Jun 2025

DRILLING COMPANY Legion Drilling
DRILL RIG GeoProbe
DRILLING METHOD Push Tube
DIAMETER

EASTING 335915.818
NORTHING 6243320.198
COORD SYS GDA 2020 MGA 56
TOTAL DEPTH 1.00 m bgl
LOGGED BY NB/NP/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
PT	0.1 0.2 0.3		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, fine sand loose, with inclusions of roots.	DR	BH13_0_0.1 BH13_0_0.3 BH13_0.00-0.10	No odours, staining or asbestos observed. 10 L asbestos quantificiation conducted at 0-0.3 mbgs.
SFA	0.4 0.5 0.6 0.7 0.8 0.9 1		Natural - SAND, light brown, homogeneous, dry, poorly graded, medium sand loose, with no inclusions.	DR	BH13_0.30-0.40 BH13_0.50-0.60 BH13_0.90-1.00	No odours, staining or asbestos observed.
	1.1 1.2 1.3 1.4		Termination Depth at: 1.00 m bgl			

SOIL BOREHOLE BH14

PROJECT NUMBER 69149
PROJECT NAME Pagewood
CLIENT Homes NSW
ADDRESS 68-80 Banks Avenue
DRILLING DATE 17 Jun 2025

DRILLING COMPANY Legion Drilling
DRILL RIG GeoProbe
DRILLING METHOD Push Tube
DIAMETER

EASTING 335942.807
NORTHING 6243325.247
COORD SYS GDA 2020 MGA 56
TOTAL DEPTH 1.20 m bgl
LOGGED BY NB/NP/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
PT	0.1 0.2 0.3		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, fine sand loose, with inclusions of roots and trace gravels.	DR	BH14_0_0.1 BH14_0_0.3 BH14_0.00-0.10	No odours, staining or asbestos observed. 10 L asbestos quantificiation conducted at 0-0.3 mbgs.
	0.4		Natural - SAND, grey, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH14_0.30-0.40	No odours, staining or asbestos observed.
SFA	0.5 0.6 0.7 0.8 0.9 1 1.1 1.2		Natural - SAND, light brown, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH14_0.50-0.60 BH14_0.90-1.00	No odours, staining or asbestos observed.
	1.3 1.4		Termination Depth at: 1.20 m bgl			

SOIL BOREHOLE BH15

PROJECT NUMBER 69149	**DRILLING COMPANY** Legion Drilling	**EASTING** 335937.394
PROJECT NAME Pagewood	**DRILL RIG** GeoProbe	**NORTHING** 6243305.860
CLIENT Homes NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SYS** GDA 2020 MGA 56
ADDRESS 68-80 Banks Avenue	**DIAMETER**	**TOTAL DEPTH** 1.30 m bgl
DRILLING DATE 17 Jun 2025		**LOGGED BY** NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
PT	0.1		Fill - Silty SAND, drk brown, heterogeneous, dry, poorly graded, fine sand loose, with inclusions of roots, trace gravels and glass.	DR	BH15_0_0.1 BH15_0_0.3 BH15_0.00-0.10	No odours, staining or asbestos observed. 10 L asbestos quantificiation conducted at 0-0.3 mbgs.
	0.2					
	0.3				BH15_0.3_0.4	
	0.4		Natural - SAND, grey, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH15_0.30-0.40	No odours, staining or asbestos observed.
	0.5		Natural - SAND, light brown/yellow, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH15_0.50-0.60	No odours, staining or asbestos observed. QA/QC02_20250617_J taken at 0.5-0.6 mbgs.
SFA	0.6					
	0.7					
	0.8					
	0.9				BH15_0.90-1.00	
	1					
	1.1					
	1.2					
	1.3					
	1.4		Termination Depth at: 1.30 m bgl			

SOIL BOREHOLE BH16

PROJECT NUMBER 69149
PROJECT NAME Pagewood
CLIENT Homes NSW
ADDRESS 68-80 Banks Avenue
DRILLING DATE 18 Jun 2025

DRILLING COMPANY Legion Drilling
DRILL RIG GeoProbe
DRILLING METHOD Hollow Flight Auger
DIAMETER

EASTING 335910.076
NORTHING 6243298.136
COORD SYS GDA 2020 MGA 56
TOTAL DEPTH 8.00 m bgl
LOGGED BY NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
SFA	0		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of trace gravels and rootlets.	DR	BH16_0_0.1 BH16_0_0.3	No odours, staining or asbestos observed. 10 L asbestos quantification conducted at 0-0.3 mbgs. QA/QC01_20250618_J taken at 0-0.1 mbgs.
	0.5		Natural - SAND, light brown/orange, homogeneous, dry, poorly graded, medium sand loose, with no inclusions.	DR	BH16_0.00-0.10 BH16_0.30-0.40 BH16_0.50-0.60	
	1		Natural - SAND, light grey/yellow, homogeneous, dry, poorly graded, medium sand loose, with no inclusions.	DR	BH16_1.00-1.10	No odours, staining or asbestos observed.
	1.5					No odours, staining or asbestos observed.
	2		Natural - SAND, brown/yellow, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH16_2.00-2.10	No odours, staining or asbestos observed.
	2.5					
	3		Natural - SAND, light brown/yellow, homogeneous, damp, poorly graded, medium sand medium dense, with no inclusions.	DP	BH16_3.00-3.10	No odours, staining or asbestos observed.
	3.5					
	4		Natural - SAND, light brown/yellow, homogeneous, damp-moist, poorly graded, medium sand medium dense, with no inclusions.	DP		No odours, staining or asbestos observed.
	4.5					
	5		Natural - SAND, light brown/yellow, homogeneous, moist, poorly graded, medium sand medium dense, with no inclusions.	M		No odours, staining or asbestos observed.
	5.5					
	6		Natural - SAND, light brown/yellow, homogeneous, wet, poorly graded, medium sand loose, with no inclusions.	W		No odours, staining or asbestos observed.
	6.5					
	7		Natural - SAND, light brown/yellow, homogeneous, saturated, poorly graded, medium sand loose, with no inclusions.	S		No odours, staining or asbestos observed.
	7.5		Natural - SAND, dark brown/black, homogeneous, saturated, poorly graded, medium sand loose, with no inclusions.	S		No odours, staining or asbestos observed.
	8		Termination Depth at: 8.00 m bgl			

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SOIL BOREHOLE BH17

PROJECT NUMBER 69149
PROJECT NAME Pagewood
CLIENT Homes NSW
ADDRESS 68-80 Banks Avenue
DRILLING DATE 17 Jun 2025

DRILLING COMPANY Legion Drilling
DRILL RIG GeoProbe
DRILLING METHOD Push Tube
DIAMETER

EASTING 335907.246
NORTHING 6243275.733
COORD SYS GDA 2020 MGA 56
TOTAL DEPTH 1.00 m bgl
LOGGED BY NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
PT	0.1 0.2 0.3 0.4		Fill - Silty SAND, dark brown, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of roots.	DR	BH17_0_0.1 BH17_0_0.4 BH17_0.00-0.10 BH17_0.30-0.40	No odours, staining or asbestos observed. 10 L asbestos quantificiation conducted at 0-0.4 mbgs.
SFA	0.5 0.6 0.7 0.8 0.9 1		Natural - SAND, light grey, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH17_0.50-0.60 BH17_0.90-1.00	No odours, staining or asbestos observed.
	1.1 1.2 1.3 1.4		Termination Depth at: 1.00 m bgl			

SOIL BOREHOLE BH18

PROJECT NUMBER 69149
PROJECT NAME Pagewood
CLIENT Homes NSW
ADDRESS 68-80 Banks Avenue
DRILLING DATE 17 Jun 2025

DRILLING COMPANY Legion Drilling
DRILL RIG
DRILLING METHOD Hand Auger
DIAMETER

EASTING 335934.563
NORTHING 6243279.776
COORD SYS GDA 2020 MGA 56
TOTAL DEPTH 0.80 m bgl
LOGGED BY NB/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
HA	0.1		Fill - Silty SAND, dark brown/grey, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of roots.	DR	BH18_0_0.1 BH18_0_0.2 BH18_0.00-0.10	No odours, staining or asbestos observed. 10 L asbestos quantification conducted at 0-0.2 mbgs.
	0.2		Natural - SAND, light grey, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH18_0.3_0.4 BH18_0.30-0.40 BH18_0.50-0.60	No odours, staining or asbestos observed. QA/QC02_20250617 and QA/QC04_20250617_J taken at 0.3-0.4 mbgs.
	0.3					
	0.4					
	0.5					
	0.6					
	0.7					
	0.8		Termination Depth at: 0.80 m bgl			
	0.9					
	1					
	1.1					
	1.2					
	1.3					
	1.4					

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SOIL BOREHOLE BH19

PROJECT NUMBER 69149	**DRILLING COMPANY** Legion Drilling	**EASTING** 335921.160
PROJECT NAME Pagewood	**DRILL RIG**	**NORTHING** 6243261.512
CLIENT Homes NSW	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA 2020 MGA 56
ADDRESS 68-80 Banks Avenue	**DIAMETER**	**TOTAL DEPTH** 1.20 m bgl
DRILLING DATE 17 Jun 2025		**LOGGED BY** NB/NP/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
HA	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8		Fill - Silty SAND, dark brown/grey, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of roots, gravels, glass, tile and brick.	DR	BH19_0_0.1 BH19_0_0.8 BH19_0.00-0.10 BH19_0.30-0.40 BH19_0.5_0.6 BH19_0.50-0.60	No odours or staining observed. Potential ACM fragment observed (BH19_FRAG). 10 L asbestos quantification conducted at 0-0.8 mbgs.
	0.9 1 1.1 1.2		Natural - SAND, light grey, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH19_1.00-1.10	No odours, staining or asbestos observed.
	1.3 1.4		Termination Depth at: 1.20 m bgl			

SOIL BOREHOLE BH20

PROJECT NUMBER 69149	**DRILLING COMPANY** Legion Drilling	**EASTING** 335900.317
PROJECT NAME Pagewood	**DRILL RIG** GeoProbe	**NORTHING** 6243251.007
CLIENT Homes NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SYS** GDA 2020 MGA 56
ADDRESS 68-80 Banks Avenue	**DIAMETER**	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 17 Jun 2025		**LOGGED BY** NB/NP/LH

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
PT	0.1		Fill - Silty SAND, dark brown/grey, heterogeneous, dry, poorly graded, medium sand loose, with inclusions of roots, rocks/gravels and terracotta pieces.	DR	BH20_0_0.1 BH20_0_0.2 BH20_0.00-0.10	No odours, staining or asbestos observed. 10 L asbestos quantification conducted at 0-0.2 mbgs.
	0.2		Natural - SAND, light grey, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP		No odours, staining or asbestos observed. QA/QC03_20250617_J taken at 0.3-0.4 mbgs.
	0.3				BH20_0.30-0.40	
SFA	0.4					
	0.5				BH20_0.50-0.60	
	0.6					
	0.7					
	0.8					
	0.9				BH20_0.90-1.00	
	1		Termination Depth at: 1.00 m bgl			
	1.1					
	1.2					
	1.3					
	1.4					

GROUNDWATER WELL BH21/MW03

PROJECT NUMBER 69149	**DRILLING COMPANY** Legion Drilling	**EASTING** 335924.606
PROJECT NAME Pagewood	**DRILL RIG** GeoProbe	**NORTHING** 6243237.412
CLIENT Homes NSW	**DRILLING METHOD** Hollow Flight Auger	**COORD SYS** GDA 2020 MGA 56
ADDRESS 68-80 Banks Avenue	**TOTAL DEPTH** 10.00 m bgl	**ELEVATION** m AHD
DRILLING DATE 18 Jun 2025	**DIAMETER**	**LOGGED BY** NB/NP
PERMIT NO.		**CHECKED BY** LH

COMPLETION | **CASING** | **SCREEN INTERVAL** - m bgl

COMMENTS

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	Additional Observations
HFA	▽		0.5		Fill - Silty, clayey SAND, dark brown, heterogeneous, damp, poorly graded, fine sand loose, with inclusions of roots and gravels.	DP	BH21/MW03_0.0 BH21/MW03_0.3 BH21/MW03_0.5	No odours, staining or asbestos observed. 10 L asbestos quantification conducted at 0-0.3 mbgs.
			1		Natural - SAND, dark grey, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP		No odours, staining or asbestos observed.
			1.5		Natural - SAND, light brown/yellow, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.		BH21/MW03_1.0	No odours, staining or asbestos observed.
			2		Natural - SAND, light greyish, homogeneous, damp, poorly graded, medium sand loose, with no inclusions.	DP	BH21/MW03_2.0	No odours, staining or asbestos observed.
			3		Natural - SAND, light grey/light yellow, homogeneous, moist, poorly graded, medium sand medium dense, with no inclusions.	M	BH21/MW03_3.0	No odours, staining or asbestos observed.
			4		Natural - SAND, light grey/light yellow, homogeneous, moist, poorly graded, medium sand medium dense, with no inclusions.	M	BH21/MW03_4.0 BH21/MW03_5.0	No odours, staining or asbestos observed.
			6		Natural - SAND, light grey/light yellow, homogeneous, wet, poorly graded, medium sand medium dense, with no inclusions.	W	BH21/MW03_6.0	No odours, staining or asbestos observed.
			7		Natural - SAND, light grey/light yellow, homogeneous, wet, poorly graded, medium sand loose, with no inclusions.	W	BH21/MW03_7.0 BH21/MW03_8.0 BH21/MW03_9.0	No odours, staining or asbestos observed.
			9.5		Natural - SAND, dark brown/black, homogeneous, saturated, poorly graded, medium sand loose, with no inclusions.	S	BH21/MW03_9.9	No odours, staining or asbestos observed.
			10		Termination Depth at: 10.00 m bgl			

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Appendix F Calibration and Decontamination Sheets

Field Equipment Calibration and Decontamination

PROJECT NAME: Pagewood	**PROJECT NO:** 6949
FIELDWORK DATES: 13 – 18/6/25	**SAMPLERS:** NB
TYPE OF INVESTIGATION: soil investigation	**PROJECT MANAGER:** LH

CALIBRATION SUMMARY

EQUIPMENT: PID – 119496
CALIBRATION STANDARD: 100 Iso-butylene

DATE	TIME	READING (ppm)	COMMENTS
13/6/25	7:00	0	zero
↓	7:03	100	calibration to 100
↓	7:08	99.2	bump check
16/6/25	7:00	0	zero
↓	7:02	100	calibration to 100
↓	7:05	99.7	bump check
17/6/25	7:00	0	zero
↓	7:02	100	calibration to 100
↓	7:05	98.9	bump check
18/6/25	7:00	0	zero
↓	7:03	100	calibration to 100
↓	7:07	99.2	bump check

DECONTAMINATION SUMMARY

EQUIPMENT: Hand Auger	

1	Was the equipment decontaminated appropriately prior to sampling at each location?	(Y)	N	NA
2	Was excess soil removed by scraping, brushing or wiping with disposable towels?	(Y)	N	NA
3	Was the equipment contaminated with grease, tar or similar material?	Y	(N)	NA
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	(NA)
4	Was phosphate-free detergent used to wash the equipment?	(Y)	N	NA
5	Was the equipment rinsed with clean water?	(Y)	N	NA
6	Was the equipment then rinsed with deionised water?	(Y)	N	NA
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	(Y)	N	NA

WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS

new pair of nitrile gloves per sample.

Field Equipment Calibration and Decontamination

PROJECT NAME: Pagewood	**PROJECT NO:** 69149
FIELDWORK DATES: 30/6/25	**SAMPLERS:** NB
TYPE OF INVESTIGATION: GME	**PROJECT MANAGER:** LH

CALIBRATION SUMMARY

EQUIPMENT: YSI (hired out - calibration certificate provided)
CALIBRATION STANDARD:

DATE	TIME	READING (ppm)	COMMENTS

DECONTAMINATION SUMMARY

EQUIPMENT: IP

1	Was the equipment decontaminated appropriately prior to sampling at each location?	(Y)	N	NA
2	Was excess soil removed by scraping, brushing or wiping with disposable towels?	(Y)	N	NA
3	Was the equipment contaminated with grease, tar or similar material?	Y	(N)	NA
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	(NA)
4	Was phosphate-free detergent used to wash the equipment?	(Y)	N	NA
5	Was the equipment rinsed with clean water?	(Y)	N	NA
6	Was the equipment then rinsed with deionised water?	(Y)	N	NA
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	(Y)	N	NA

WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS

WAMSCIENTIFIC
Your water and air monitoring equipment specialists

Certificate of Service and Calibration
Interface Meter
Heron H.Oil

Company Name	WAM Scientific
Office Address	26 Bungarra Crescent, Chipping Norton NSW 2170
Phone Number	+61 405 241 484
Contact Name	William Pak
Instrument	Heron H.Oil Interface Meter (30m)
Serial Number	16DM2406001BC
Client Name	Lauren Holmes, Nicole Bennett (JBS&G)
Project Number	69149, 69148, 69147
Comments	-

Instrument Check			
Item	Test	Test Passed	Comments
9V Battery	Klein Tools MM300 Multimeter	✓	Battery voltage reading above 7.9V
Battery Box	Check	✓	No damage
Face and Back Plates	Check	✓	No damage
Thumb Screws	Check	✓	Rubber ends intact
Tape Hangar/Protector	Check	✓	No damage
On/Off Button	Operation	✓	Button is functional
Buzzer	Operation	✓	Intermittent tone in H_2O, solid tone in product
LED Signal Light	Operation	✓	LED light functional – green and red
Probe	Operation/Check	✓	Decontaminated, cleaned and tested
Tape	Condition/Check	✓	Decontaminated and cleaned, no damage
Connection	Check	✓	Probe and link connected correctly and tightly
PCB	Operation	✓	Unit is fully functional
Electronics Panel	Orientation	✓	Correctly aligned

Instrument Readings		
Product	Buzzer	LED Light
H_2O	Intermittent	Blinking – Red
Petroleum	Solid	Steady – Red

Declaration
WAM Scientific certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The interface meter was decontaminated, cleaned and tested with a mixture of tap water and petrol, shielded from ambient light.

Checked By	William Pak
Calibration Date	26/06/2025
Calibration Due	26/12/2025

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Certificate of Service and Calibration
Water Quality Meter
YSI Professional Plus

Company Name	WAM Scientific
Office Address	26 Bungarra Crescent, Chipping Norton NSW 2170
Phone Number	+61 405 241 484
Contact Name	William Pak
Instrument	YSI Pro Quatro Water Quality Meter w/ 1m Quatro Cable
Serial Number	21C100012
Client Name	Lauren Holmes, Nicole Bennett (JBS&G)
Project Number	69149, 69148, 69147
Comments	-

Instrument Check

Item	Test	Test Passed	Comments
2 x Alkaline C-size Batteries	Klein Tools MM300 Multimeter	✓	Both batteries reading above 2.9V
Battery Saver Function	Operation	✓	Automatically turns off after 60 minutes if idle
Unit Display	Operation	✓	Screen visible, no damage
Keypad	Operation	✓	Responsive, no damage
Connection Port and Cable	Condition/Check	✓	Clean, no damage
Monitor Housing	Condition/Check	✓	No damage
Firmware	Version	✓	4.0.0
pH Probe	Condition/Calibration	✓	Calibrated and conforms to manufacturer's specs
pH millivolts for pH 7.00	Calibration	✓	pH 7.00 calibration range between 0 mV ± 50 mV
pH millivolts for pH 4.00	Calibration	✓	pH 4 mV range +165 to +180 from 7 buffer mV value
pH slope	Calibration	✓	Range between 55 to 60 mV/pH (ideal value 59 mV)
Response time < 90 seconds	Calibration	✓	Responds to correct value within 90 seconds
ORP Probe	Condition/Calibration	✓	Calibrated and conforms to manufacturer's specs
ORP Reading	Calibration	✓	Within ± 80 mV of reference Zobell Reading
Response time < 90 seconds	Calibration	✓	Responds to correct value within 90 seconds
Conductivity/Temp Probe	Condition/Calibration	✓	Calibrated and conforms to manufacturer's specs
Conductivity Cell	Calibration	✓	Conductivity cell constant 5.0 ± 1.0 in GLP file
Clean Sensor Readings	Calibration	✓	Clean sensor reads less than 3 uS/cm in dry air
Dissolved Oxygen Probe	Condition/Calibration	✓	Calibrated and conforms to manufacturer's specs
DO Cap	Condition/Calibration	✓	1.25 mil PE membrane (yellow membrane)
DO Sensor in Use	Condition	✓	Polarographic DO sensor
DO Sensor Value	Calibration	✓	(min 4.31 uA - max 8.00 uA) Avg 6.15 uA

Instrument Readings

Parameter	Standard Used	Reference No.	Calibration Value	Observed	Actual	Units
Temperature	Centre 370 Thermometer	Room Temp.	10.7	10.4	10.7	°C
pH	pH 4.00	417183	4.01	4.20	4.01	pH
pH	pH 7.00	419528	7.00	7.35	7.00	pH
ORP	Zobell A & B	420448/418958	260.5	250.5	260.5	mV
Conductivity	2760 µs/cm at 25°C	399819	2760	2930	2760	µs/cm
Zero Dissolved O_2	$NaSO_3$ in Distilled H_2O	426184	0.0	0.0	0.0	%
100% Dissolved O_2	100% Air Saturated H_2O	Fresh Air	100.0	103.4	100.0	%

Declaration

WAM Scientific certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The calibration data supplied was obtained in accordance with manufacturer's specifications using solutions of known values.

Calibrated By	William Pak
Calibration Date	26/06/2025
Calibration Due	26/12/2025

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Certificate of Service and Calibration
Peristaltic Pump
Geotech Geopump 2

Company Name	WAM Scientific
Office Address	26 Bungarra Crescent, Chipping Norton NSW 2170
Phone Number	+61 405 241 484
Contact Name	William Pak
Instrument	Geotech Geopump Peristaltic Pump
Cable Length	4.5m
Serial Number	Pump: 6496
Serial Number	Head: -
Client Name	Lauren Holmes, Nicole Bennett (JBS&G)
Project Number	69149, 69148, 69147

Instrument Check			
Item	Test	Test Passed	Comments
2 x 12V Batteries	Klein Tools MM300 Multimeter	✓	Both batteries reading above 12V
Battery Terminals	Check	✓	No damage
Charger	Condition/Check	✓	Functioning
Cabling	Check	✓	No damage
Alligator Clips	Check	✓	Protected, no damage
Casing	Check	✓	Clean, no damage
Handle	Check	✓	No damage
Pump Head	Check	✓	EZ2 Head, no damage
Pump Condition	Decontamination	✓	Decontaminated
Pump Operation	Operation	✓	Peristaltic pump functional
Pump Tubing	Replacement	✓	New 0.5m ¼" OD LDPE silicon tubing
Pump Speed	Operation	✓	Speed knob functional

Inclusions
2 x Sealed lead acid 12V batteries included 1x Carry case for 12V batteries included 1x Intrinsically safe charger (clips) included

Declaration
WAM Scientific certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The pump has been decontaminated and cleaned upon return from the previous hire and is in good working order.

Checked By	William Pak
Calibration Date	26/06/2025
Calibration Due	26/12/2025

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Appendix G Quality Assurance/Quality Control Results

The QA/QC results for soil samples collected at the site are summarised in **Table G.1** and discussed following. Laboratory certificates of analysis are included in **Appendix H**.

Table G.1: Data Quality Indicator Assessment

Data Quality Indicator	Frequency	Results Reported	DQI met
Precision			
Blind duplicates (intra laboratory)	Soil: Asbestos: 2/23 samples Metals/PAHs: 2/33 samples TRH/BTEX: 2/23 samples OCPs/PCBs: 2/23 samples PFAS: 1/11 samples Groundwater (all analytes): 1/3 samples Duplicate samples for PFAS were analysed at a rate greater than 1 in 10 primary samples. All other contaminants were analysed at a rate greater than 1 in 20 primary samples	Soil: 0-177% RPD, no asbestos present Groundwater: 0-13% RPD	Partial[1] Yes
Split duplicates (inter laboratory)	Soil: Asbestos: 2/23 samples Metals/PAHs: 2/33 samples TRH/BTEX: 2/23 samples OCPs/PCBs: 2/23 samples PFAS: 1/11 samples Groundwater (all analytes): 1/3 samples Triplicate samples for PFAS were analysed at a rate greater than 1 in 10 primary samples. All other contaminants were analysed at a rate greater than 1 in 20 primary samples	Soil: 0-82% RPD, no asbestos present Groundwater: 0-67% RPD	Partial[1] Partial[1]
Laboratory duplicates	Soil: > 1 / 20 samples Groundwater: > 1 / 20 samples	Soil: 0-57% RPD Groundwater: 0-40%	Partial[1] Yes
Accuracy			
Surrogate spikes	All organic samples	Soil: 0-195% recovery Groundwater: 0-188% recovery	Partial[1] Partial[1]
Laboratory control samples	Soil: 1 per lab batch Groundwater: 1 per lab batch	Soil: 63-146% recovery Groundwater: 50-128% recovery	Partial[1] Partial[1]
Matrix spikes	Soil: 1 per lab batch Groundwater: 1 per lab batch	Soil: 42-193% recovery Groundwater: 50-126% recovery	Partial[1] Partial[1]

Data Quality Indicator	Frequency	Results Reported	DQI met
Representativeness			
Sampling appropriate for media and analytes	-	All sampling appropriate	Yes
Samples extracted and analysed within holding times	-	Yes, except for nitrite	Partial[1]
Laboratory blanks	1 per lab batch	Soil: <LOR Groundwater: <LOR	Yes Yes
Trip blank	1 per sampling event	Soil: <LOR Groundwater:<LOR	Yes Yes
Trip spike	1 per sampling event	Soil: 91-120% recovery Groundwater: 76-100% recovery	Yes Yes
Rinsate blank	1 per sampling event where reusable equipment is used	Soil (hand auger): <0.001-0.007 µg/L Groundwater (interface probe): <0.001-0.001 µg/L	Partial[1] Partial[1]
Field Blank	1 per sampling event, PFAS only	<LOR	Yes
Comparability			
Standard operating procedures for sample collection & handling	All samples	Standard procedures for all sampling	Yes
Standard analytical methods used for all analyses	All samples	Standard analytical methods	Yes
Consistent field conditions, sampling staff and laboratory analysis	All samples	Consistent field conditions, field staff, and laboratory analysis	Yes
Limits of reporting appropriate and consistent	All samples	LORs appropriate and generally consistent	Yes
Completeness			
Sample description and COCs completed and appropriate	All samples	Field documentation and COC provided and completed	Yes
Appropriate documentation	All samples	Documentation provided and completed	Yes
Satisfactory frequency and results for QC samples	All QA/QC samples	The QC results are considered adequate for the purposes of the investigation	Yes
Data from critical samples is considered valid	-	Critical samples valid	Yes

Data Quality Indicator	Frequency	Results Reported	DQI met
Sensitivity			
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	All samples	LOR ≤ site assessment criteria	Yes

Precision

Duplicates and Triplicates

Soil:

All duplicates and triplicates were collected at a rate of greater than 1 per 20 primary samples analysed, meeting the 1/20 DQI frequency. PFAS soil analysis was collected at a rate greater than 1 per 10 primary samples analysed, meeting the 1/10 DQI frequency.

RPDs were mostly within the acceptable limit (0-50%) with some elevated RPDs identified for heavy metals and PAHs.

Laboratory QC limits were reviewed and where results are less than 10 times the limit of reporting, RPDs do not have a reporting limit. Most elevated RPDs are attributed to this, with exceptions including the following:

- Copper for primary sample BH05_0-0.1 and duplicate sample QC02_20250616, with a 59% RPD; and
- Lead for primary sample BH05_0-0.1 and triplicate sample QA02_20250616, with a 57% RPD.

Elevated RPD values are generally attributed to the heterogeneous nature of the soils. As a conservative measure, the highest result obtained was adopted for assessment purposes. Based on this, the RPDs above the DQI are not considered to affect the data set.

Groundwater:

Groundwater duplicates and triplicates were collected at a rate greater than 1 per 20 primary samples analysed, meeting the 1/20 (and PFAS 1/10) DQI frequency. RPDs were mostly within the acceptable limit (0-50%) except for PFAS compounds between primary MW02 and triplicate QA01_20250630. Laboratory QC limits were reviewed and the results were within 10 times the limit of reporting, where RPDs do not have a reporting limit. Therefore, the data was considered suitable for comparison against screening level criteria, and as a conservative measure, the highest reported concentrations have been considered when interpreting results.

Laboratory Duplicates

Soil:

A sufficient number of laboratory duplicates were analysed in which RPDs were generally within the JBS&G acceptable limit of 0-50 %. The elevated soil RPDs were either reported to pass Eurofins Environment Testing's QC - Acceptance Criteria where results less than 10 times the laboratory LOR do not have an RPD limit, or further analysis indicated sample heterogeneity as the cause and as such, results were considered to have achieved an appropriate standard for this assessment.

Groundwater:

A sufficient number of laboratory duplicates were analysed in which RPDs were all within the JBS&G acceptable limit of 0-50%.

Accuracy

Surrogate Spikes

Soil:

Some surrogate spike recoveries were outside the acceptable range of 70-130%, however most of these were within the NATA acceptable limits of 50-150%. Recoveries outside of these ranges were for PFAS, OCP, PCB and PAH compounds. The laboratory indicates that 'PFAS field sample results that contain surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected'. The laboratory indicates that for OCP, PCB and PAH compounds 'where the term INT appears against the analyte determination of recovery was not achieved due to chromatographic interference'. Therefore, it is considered that PFAS, OCP, PCB and PAH surrogate spike results outside of the NATA acceptable limits of 50-150% have not resulted in conditions that affected the accuracy of the dataset.

Groundwater:

Some surrogate spike recoveries were outside the acceptable range of 70-130%, however most of these were within the NATA acceptable limits of 50-150%. Recoveries outside of this range were for PFAS compounds. The laboratory indicates that "PFAS field sample results that contain surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected". Therefore, it is considered that PFAS surrogate spike results outside of the NATA acceptable limits of 50-150% have not resulted in conditions that affected the accuracy of the dataset.

Matrix Spikes

Soil:

Matrix spikes recoveries were mostly reported within the JBS&G acceptable range of 70-130%, or within the NATA acceptable range of 50-150%. Recoveries outside these ranges were for heavy metal compounds. The laboratory indicates that 'heavy metal field samples that contain matrix recoveries in excess of the recommended acceptance criteria, an acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference'. Therefore, the results are not considered to affect the accuracy of the data set.

Groundwater:

Matrix spikes recoveries were mostly reported within the JBS&G acceptable range of 70-130%, and all were within the NATA acceptable range of 50-150%.

Laboratory Control Samples

Soil:

Most laboratory control sample recoveries were reported within the JBS&G acceptable range of 70-130%. Laboratory control sample recoveries outside the target range were not considered to affect the overall reliability of the data set as concentrations were within the laboratory's NATA accredited method limits (50-150%).

Groundwater:

Laboratory control sample recoveries were mostly reported within the JBS&G acceptable range of 70-130%, however all of these were within the NATA acceptable range of 50-150 %.

Representativeness

Sampling appropriate for media and analytes

All soil and groundwater sampling works completed during the investigation were conducted in accordance with JBS&G standard operating procedures, developed with consideration to NSW EPA made or approved guidance. Soil and groundwater sampling was conducted as described in **Section 5.2**.

Holding Times

The extraction and analysis of selected samples were completed by the primary and secondary laboratory were generally within the recommended holding times for all analytes. It is noted that within the nutrient suite analysed for groundwater, nitrite has a short (2 day) holding time, and was outside the holding time when analysed. This was considered when interpreting nitrogen data, noting that this may have degraded to other forms of nitrogen.

Laboratory Blanks

There were no reported concentrations above the laboratory LOR in the laboratory method blanks analysed.

Trip Spike

Soil:

Trip spike samples submitted with soil and groundwater batches reported recoveries within the acceptable range of 70-130%, indicating appropriate storage of volatile contaminants was maintained.

Trip Blank

Trip blank samples submitted with soil and groundwater batches were reported below the LOR, confirming that contaminants were not introduced to the submitted samples during storage or transport to the laboratory.

Rinsate Blanks

Soil:

A single rinsate sample was collected following the decontamination of the hand auger for the soil sampling activities. The collected rinsate is considered representative of the decontamination activities which occurred between each location. All COPCs were reported below the laboratory LOR, except for zinc, which reported a concentration of 0.007 mg/L, marginally above the laboratory LOR of 0.005 mg/L.

JBS&G note the reported concentration is at minimum a single order of magnitude below the lowest result and several orders above the average. As such the reported concentration is not considered to affect the reliability of the dataset.

Groundwater:

A single rinsate sample was collected following the decontamination of the interface probe for the groundwater sampling activities. The collected rinsate is considered representative of the decontamination activities which occurred between each location. All COPCs were reported below the laboratory LOR, except for:

- Chromium at a reported concentration of 0.001 mg/L, matching the laboratory LOR of 0.001 mg/L; and
- PFOS at a reported concentration of 0.0004 mg/L, marginally above the laboratory LOR of 0.0001 mg/L.

JBS&G note the reported concentration is at minimum a single order of magnitude below the lowest result and several orders above the average. As such the reported concentration is not considered to affect the reliability of the dataset.

PFAS Blanks

Soil and groundwater sample batches were accompanied by PFAS blank samples. PFAS was not detected above the LOR, and as such represents that the cross-contamination by PFAS compounds during sampling/transportation between samples is considered low and has been suitably managed.

Comparability

Standard operating procedures were undertaken and standard analytical methods were completed by the laboratory. JBS&G field staff were consistent throughout the investigation. Where appropriate, field and laboratory documentation is attached in relevant appendices.

Completeness

Documentation

Samples were transported under full COC documentation. The COC documentation was complete, and the selected analyses were correctly conducted.

All field documentation was completed appropriately including borehole logs, COCs, daily field logs and calibration and decontamination sheets.

Frequency of QC Samples

Frequency of analysis for the QC samples collected is at the required frequency for each analyte analysed.

Sensitivity

Laboratory analysis methods for all contaminants adopted during the investigation applied limits of reporting less than the site assessment criteria.

QA/QC Assessment

The field sampling and handling procedures produced QA/QC results which indicate that the data are of an acceptable quality and suitable for use in site characterisation.

The NATA certified laboratory results indicate that the project laboratories were generally achieving levels of performance within the recommended control limits during the period when the samples from this program were analysed.

On the basis of the results of the field and laboratory QA/QC program, the data is of an acceptable quality in order to achieve the objectives of the assessment.

Soil QA/QC RPD Summary
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

			Lab Report Number	1234275	1234275		1234275	383658		1234275	383658		1234275	1234275	
			Field ID	BH08_0.3_0.5	QC01_20250613_AQ		BH08_0.3_0.5	QA01_20250613_AQ		BH08_0.3_0.5	QA01_20250613_AQ		BH08_2_2.1	QC01_20250613	
			Matrix Type	Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
			Date	13 Jun 2025	13 Jun 2025	RPD	13 Jun 2025	13 Jun 2025	RPD	13 Jun 2025	13 Jun 2025	RPD	13 Jun 2025	13 Jun 2025	RPD
	Unit	EQL													
Metals & Metalloids															
Arsenic	mg/kg	2	-	-	-	-	-	-	-	-	-	<2	<2	0
Cadmium	mg/kg	0.4	-	-	-	-	-	-	-	-	-	<0.4	<0.4	0
Chromium (III+VI)	mg/kg	1	-	-	-	-	-	-	-	-	-	<5	<5	0
Copper	mg/kg	1	-	-	-	-	-	-	-	-	-	<5	<5	0
Lead	mg/kg	1	-	-	-	-	-	-	-	-	-	<5	<5	0
Mercury	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.1	<0.1	0
Nickel	mg/kg	1	-	-	-	-	-	-	-	-	-	<5	<5	0
Zinc	mg/kg	1	-	-	-	-	-	-	-	-	-	<5	<5	0
TPHs (NEPC 1999)															
C6-C9 Fraction	mg/kg	20	-	-	-	-	-	-	-	-	-	-	<20	-
C10-C14 Fraction	mg/kg	20	-	-	-	-	-	-	-	-	-	-	<20	-
C15-C28 Fraction	mg/kg	50	-	-	-	-	-	-	-	-	-	-	<50	-
C29-C36 Fraction	mg/kg	50	-	-	-	-	-	-	-	-	-	-	<50	-
C10-C36 Fraction (Sum of Total)	mg/kg	50	-	-	-	-	-	-	-	-	-	-	<50	-
TRHs (NEPC 2013)															
C6-C10	mg/kg	20	-	-	-	-	-	-	-	-	-	-	<20	-
C10-C16	mg/kg	50	-	-	-	-	-	-	-	-	-	-	<50	-
C16-C34	mg/kg	100	-	-	-	-	-	-	-	-	-	-	<100	-
C34-C40	mg/kg	100	-	-	-	-	-	-	-	-	-	-	<100	-
C10-C40 (Sum of total)	mg/kg	50	-	-	-	-	-	-	-	-	-	-	<100	-
F1 (C6-C10 minus BTEX)	mg/kg	20	-	-	-	-	-	-	-	-	-	-	<20	-
F2 (C10-C16 less Naphthalene)	mg/kg	50	-	-	-	-	-	-	-	-	-	-	<50	-
BTEXN															
Benzene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	<0.1	-
Toluene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	<0.1	-
Ethylbenzene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	<0.1	-
Xylene (o)	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	<0.1	-
Xylene (m & p)	mg/kg	0.2	-	-	-	-	-	-	-	-	-	-	<0.2	-
Xylene Total	mg/kg	0.3	-	-	-	-	-	-	-	-	-	-	<0.3	-
Naphthalene_VOC	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	<0.5	-
PAH															
PAHs (Sum of positives)	µg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Acenaphthylene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Anthracene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Benz(a)anthracene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Benzo(a)pyrene	mg/kg	0.05	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	1.2	1.2	0
Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	0.6	0.6	0
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Benzo(b+j)fluoranthene	mg/kg	0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Benzo(b+j+k)fluoranthene	mg/kg	0.2	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Chrysene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Dibenz(a,h)anthracene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Fluorene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Naphthalene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Phenanthrene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Pyrene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
PAHs (Sum of total)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0
Organochlorine Pesticides															
4,4-DDE	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
a-BHC	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
b-BHC	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
d-BHC	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
g-BHC (Lindane)	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Aldrin	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Dieldrin	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Aldrin + Dieldrin	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Chlordane	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	<0.1	-
Chlordane (cis)	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane (trans)	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
DDT	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
DDD	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
DDT+DDE+DDD	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Endosulfan I	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Endosulfan II	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Endosulfan sulphate	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Endrin	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Endrin aldehyde	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Endrin ketone	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Heptachlor	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Heptachlor Epoxide	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Hexachlorobenzene	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Methoxychlor	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	<0.05	-
Mirex	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-

Soil QA/QC RPD Summary
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

		Lab Report Number	1234275	1234275		1234275	383658		1234275	383658		1234275	1234275	
		Field ID	BH08_0.3_0.5	QC01_20250613_AQ		BH08_0.3_0.5	QA01_20250613_AQ		BH08_0.3_0.5	QA01_20250613_AQ		BH08_2_2.1	QC01_20250613	
		Matrix Type	Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
		Date	13 Jun 2025	13 Jun 2025	RPD	13 Jun 2025	13 Jun 2025	RPD	13 Jun 2025	13 Jun 2025	RPD	13 Jun 2025	13 Jun 2025	RPD
	Unit	EQL												
Toxaphene	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	<0.5	-
Polychlorinated Biphenyls														
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	-
PCBs (Sum of total)	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	<0.1	-
PFAS														
Perfluorobutanoic acid (PFBA)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanoic acid (PFOA)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0005	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0005	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0005	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.05	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0005	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.1	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.1	-	-	-	-	-	-	-	-	-	-	-	-
N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.05	-	-	-	-	-	-	-	-	-	-	-	-
N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.1	-	-	-	-	-	-	-	-	-	-	-	-
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.05	-	-	-	-	-	-	-	-	-	-	-	-
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.5	-	-	-	-	-	-	-	-	-	-	-	-
N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Sum of PFHxS and PFOS	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Sum of WA DWER PFAS (n=10)*	mg/KG	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Sum of PFAS	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorononanesulfonic acid ion	mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
EPA VIC - IWRG621														
Organochlorine Pesticides EPAVic	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	<0.1	-
Other Organochlorine Pesticides EPAVic	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	<0.1	-

Soil QA/QC RPD Summary
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

			Lab Report Number	1234275	1234275		1234275	383658		1234275	383658		1234275	1234275	
			Field ID	BH08_0.3_0.5	QC01_20250613_AQ		BH08_0.3_0.5	QA01_20250613_AQ		BH08_0.3_0.5	QA01_20250613_AQ		BH08_2_2.1	QC01_20250613	
			Matrix Type	Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
			Date	13 Jun 2025	13 Jun 2025	RPD	13 Jun 2025	13 Jun 2025	RPD	13 Jun 2025	13 Jun 2025	RPD	13 Jun 2025	13 Jun 2025	RPD
	Unit	EQL													
Asbestos - Eurofins															
Approximate Sample Mass	g		787	741	6	787	-	-	787	-	-	-	-	-
Mass ACM	g		0.0000	0.0000	-	0.0000	-	-	0.0000	-	-	-	-	-
Mass Asbestos in ACM	g		0.0000	0.0000	-	0.0000	-	-	0.0000	-	-	-	-	-
Asbestos from ACM in Soil	% (w/w)		0.0000	0.0000	-	0.0000	-	-	0.0000	-	-	-	-	-
Mass FA	g		0.0000	0.0000	-	0.0000	-	-	0.0000	-	-	-	-	-
Mass Asbestos in FA	g		0.0000	0.0000	-	0.0000	-	-	0.0000	-	-	-	-	-
Mass AF	g		0.0000	0.0000	-	0.0000	-	-	0.0000	-	-	-	-	-
Mass asbestos in AF	g		0.0000	0.0000	-	0.0000	-	-	0.0000	-	-	-	-	-
Mass Asbestos in FA & AF	g		0.0000	0.0000	-	0.0000	-	-	0.0000	-	-	-	-	-
ACM - Comment	Comment		1	1	0	1	-	-	1	-	-	-	-	-
FA- Comment	Comment		1	1	0	1	-	-	1	-	-	-	-	-
AF - Comment	Comment		1	1	0	1	-	-	1	-	-	-	-	-
Organic Fibres - Comment	Comment		1	1	0	1	-	-	1	-	-	-	-	-
Respirable Fibres - Comment	Comment		1	1	0	1	-	-	1	-	-	-	-	-
Synthetic Fibres - Comment	Comment		1	1	0	1	-	-	1	-	-	-	-	-
Asbestos Reported Result	Comment		1	1	0	1	-	-	1	-	-	-	-	-
Asbestos FA & AF in Soil	% (w/w)		0.0000	0.0000	-	0.0000	-	-	0.0000	-	-	-	-	-
Asbestos - Envirolab															
Asbestos ID in Soil	g/kg		-	-	-	-	0	-	-	-	-	-	-	-
Total Asbestos	g/kg		-	-	-	-	<0.1	-	-	-	-	-	-	-
Asbestos (ACM >7mm) Estimation	% (w/w)		-	-	-	-	<0.01	-	-	-	-	-	-	-
Asbestos in soil (<2mm AF/FA) (%w/w)	% (w/w)		-	-	-	-	<0.001	-	-	0	-	-	-	-
Moisture Content															
Moisture Content	%	0.1	-	-	-	-	-	-	-	-	-	-	-	-
Other															
Moisture Content (dried @ 103°C)	%	1	-	-	-	-	-	-	-	-	-	5.4	6.0	11

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 30 (1 - 10 x EQL); 30 (10 - 30 x EQL); 30 (> 30 x EQL))**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

Soil QA/QC RPD Summary
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

			Lab Report Number	1234275	383658		1234275	1234275		1234275	383658		1234275	383658	
			Field ID	BH08_2_2.1	QA01_20250613		BH04_0_0.4	QC01_20250616_AQ		BH04_0_0.4	QA01_20250616_AQ		BH04_0_0.4	QA01_20250616_AQ	
			Matrix Type	Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
			Date	13 Jun 2025	13 Jun 2025	RPD	16 Jun 2025	16 Jun 2025	RPD	16 Jun 2025	16 Jun 2025	RPD	16 Jun 2025	16 Jun 2025	RPD
	Unit	EQL													
Metals & Metalloids															
Arsenic	mg/kg	2	<2	<4	0	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	0.4	<0.4	<0.4	0	-	-	-	-	-	-	-	-	-
Chromium (III+VI)	mg/kg	1	<5	<1	0	-	-	-	-	-	-	-	-	-
Copper	mg/kg	1	<5	<1	0	-	-	-	-	-	-	-	-	-
Lead	mg/kg	1	<5	<1	0	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	0.1	<0.1	<0.1	0	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	1	<5	<1	0	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	1	<5	<1	0	-	-	-	-	-	-	-	-	-
TPHs (NEPC 1999)															
C6-C9 Fraction	mg/kg	20	-	<25	-	-	-	-	-	-	-	-	-	-
C10-C14 Fraction	mg/kg	20	-	<50	-	-	-	-	-	-	-	-	-	-
C15-C28 Fraction	mg/kg	50	-	<100	-	-	-	-	-	-	-	-	-	-
C29-C36 Fraction	mg/kg	50	-	<100	-	-	-	-	-	-	-	-	-	-
C10-C36 Fraction (Sum of Total)	mg/kg	50	-	<50	-	-	-	-	-	-	-	-	-	-
TRHs (NEPC 2013)															
C6-C10	mg/kg	20	-	<25	-	-	-	-	-	-	-	-	-	-
C10-C16	mg/kg	50	-	<50	-	-	-	-	-	-	-	-	-	-
C16-C34	mg/kg	100	-	<100	-	-	-	-	-	-	-	-	-	-
C34-C40	mg/kg	100	-	<100	-	-	-	-	-	-	-	-	-	-
C10-C40 (Sum of total)	mg/kg	50	-	<50	-	-	-	-	-	-	-	-	-	-
F1 (C6-C10 minus BTEX)	mg/kg	20	-	<25	-	-	-	-	-	-	-	-	-	-
F2 (C10-C16 less Naphthalene)	mg/kg	50	-	<50	-	-	-	-	-	-	-	-	-	-
BTEXN															
Benzene	mg/kg	0.1	-	<0.2	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	0.1	-	<0.5	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	0.1	-	<1	-	-	-	-	-	-	-	-	-	-
Xylene (o)	mg/kg	0.1	-	<1	-	-	-	-	-	-	-	-	-	-
Xylene (m & p)	mg/kg	0.2	-	<2	-	-	-	-	-	-	-	-	-	-
Xylene Total	mg/kg	0.3	-	<1	-	-	-	-	-	-	-	-	-	-
Naphthalene_VOC	mg/kg	0.5	-	<1	-	-	-	-	-	-	-	-	-	-
PAH															
PAHs (Sum of positives)	µg/kg	50	-	<50	-	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
Anthracene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
Benz(a)anthracene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	<0.5	<0.05	0	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	<0.5	82	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	0.6	<0.5	18	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	<0.5	0	-	-	-	-	-	-	-	-	-
Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
Benzo(b+j+k)fluoranthene	mg/kg	0.2	-	<0.2	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
Chrysene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
Fluorene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
Pyrene	mg/kg	0.1	<0.5	<0.1	0	-	-	-	-	-	-	-	-	-
PAHs (Sum of total)	mg/kg	0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
Organochlorine Pesticides															
4,4-DDE	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
a-BHC	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
b-BHC	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
d-BHC	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
g-BHC (Lindane)	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Aldrin	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Dieldrin	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Aldrin + Dieldrin	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Chlordane	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane (cis)	mg/kg	0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-
Chlordane (trans)	mg/kg	0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-
DDT	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
DDD	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
DDT+DDE+DDD	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Endosulfan I	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Endosulfan II	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Endosulfan sulphate	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Endrin	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Endrin ketone	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Heptachlor Epoxide	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/kg	0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-
Mirex	mg/kg	0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-

Soil QA/QC RPD Summary
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

			Lab Report Number	1234275	383658		1234275	1234275		1234275	383658		1234275	383658	
			Field ID	BH08_2_2.1	QA01_20250613		BH04_0_0.4	QC01_20250616_AQ		BH04_0_0.4	QA01_20250616_AQ		BH04_0_0.4	QA01_20250616_AQ	
			Matrix Type	Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
			Date	13 Jun 2025	13 Jun 2025	RPD	16 Jun 2025	16 Jun 2025	RPD	16 Jun 2025	16 Jun 2025	RPD	16 Jun 2025	16 Jun 2025	RPD
		Unit	EQL												
Toxaphene		mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls															
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	-	-	-	-	-	-	-	-	-	-
PCBs (Sum of total)		mg/kg	0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-
PFAS															
Perfluorobutanoic acid (PFBA)		mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoropentanoic acid (PFPeA)		mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorohexanoic acid (PFHxA)		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptanoic acid (PFHpA)		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanoic acid (PFOA)		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorononanoic acid (PFNA)		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorodecanoic acid (PFDA)		mg/kg	0.0005	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroundecanoic acid (PFUnDA)		mg/kg	0.0005	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorododecanoic acid (PFDoDA)		mg/kg	0.0005	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.05	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)		mg/kg	0.0005	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.1	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)		mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctane sulfonamide (FOSA)		mg/kg	0.001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.1	-	-	-	-	-	-	-	-	-	-	-	-
N-Methyl perfluorooctane sulfonamide (NMeFOSA)		mg/kg	0.001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.05	-	-	-	-	-	-	-	-	-	-	-	-
N-Ethyl perfluorooctane sulfonamide (NEtFOSA)		mg/kg	0.001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.1	-	-	-	-	-	-	-	-	-	-	-	-
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)		mg/kg	0.001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.05	-	-	-	-	-	-	-	-	-	-	-	-
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)		mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.5	-	-	-	-	-	-	-	-	-	-	-	-
N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)		mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoropropanesulfonic acid (PFPrS)		mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorobutanesulfonic acid (PFBS)		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoropentanesulfonic acid (PFPeS)		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorohexanesulfonic acid (PFHxS)		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonic acid (PFOS)		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorodecanesulfonic acid (PFDS)		mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)		mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)		mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Sum of PFHxS and PFOS		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*		mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Sum of WA DWER PFAS (n=10)*		mg/KG	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Sum of PFAS		mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
		µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorononanesulfonic acid ion		mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
EPA VIC - IWRG621															
Organochlorine Pesticides EPAVic		mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
Other Organochlorine Pesticides EPAVic		mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-

Soil QA/QC RPD Summary
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

			Lab Report Number	1234275	383658		1234275	1234275		1234275	383658		1234275	383658	
			Field ID	BH08_2_2.1	QA01_20250613		BH04_0_0.4	QC01_20250616_AQ		BH04_0_0.4	QA01_20250616_AQ		BH04_0_0.4	QA01_20250616_AQ	
			Matrix Type	Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
			Date	13 Jun 2025	13 Jun 2025	RPD	16 Jun 2025	16 Jun 2025	RPD	16 Jun 2025	16 Jun 2025	RPD	16 Jun 2025	16 Jun 2025	RPD
	Unit	EQL													
Asbestos - Eurofins															
Approximate Sample Mass	g			-	-	-	823	850	3	823	-	-	823	-	-
Mass ACM	g			-	-	-	0.0000	0.0000	-	0.0000	-	-	0.0000	-	-
Mass Asbestos in ACM	g			-	-	-	0.0000	0.0000	-	0.0000	-	-	0.0000	-	-
Asbestos from ACM in Soil	% (w/w)			-	-	-	0.0000	0.0000	-	0.0000	-	-	0.0000	-	-
Mass FA	g			-	-	-	0.0000	0.0000	-	0.0000	-	-	0.0000	-	-
Mass Asbestos in FA	g			-	-	-	0.0000	0.0000	-	0.0000	-	-	0.0000	-	-
Mass AF	g			-	-	-	0.0000	0.0000	-	0.0000	-	-	0.0000	-	-
Mass asbestos in AF	g			-	-	-	0.0000	0.0000	-	0.0000	-	-	0.0000	-	-
Mass Asbestos in FA & AF	g			-	-	-	0.0000	0.0000	-	0.0000	-	-	0.0000	-	-
ACM - Comment	Comment			-	-	-	1	1	0	1	-	-	1	-	-
FA- Comment	Comment			-	-	-	1	1	0	1	-	-	1	-	-
AF - Comment	Comment			-	-	-	1	1	0	1	-	-	1	-	-
Organic Fibres - Comment	Comment			-	-	-	1	1	0	1	-	-	1	-	-
Respirable Fibres - Comment	Comment			-	-	-	1	1	0	1	-	-	1	-	-
Synthetic Fibres - Comment	Comment			-	-	-	1	1	0	1	-	-	1	-	-
Asbestos Reported Result	Comment			-	-	-	1	1	0	1	-	-	1	-	-
Asbestos FA & AF in Soil	% (w/w)			-	-	-	0.0000	0.0000	-	0.0000	-	-	0.0000	-	-
Asbestos - Envirolab															
Asbestos ID in Soil	g/kg			-	-	-	-	-	-	-	0	-	-	-	-
Total Asbestos	g/kg			-	-	-	-	-	-	-	<0.1	-	-	-	-
Asbestos (ACM >7mm) Estimation	% (w/w)			-	-	-	-	-	-	-	<0.01	-	-	-	-
Asbestos in soil (<2mm AF/FA) (%w/w)	% (w/w)			-	-	-	-	-	-	-	<0.001	-	-	0	-
Moisture Content															
Moisture Content	%	0.1		-	18	-	-	-	-	-	-	-	-	-	-
Other															
Moisture Content (dried @ 103°C)	%	1		5.4	-	-	-	-	-	-	-	-	-	-	-

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 30 (1 - 10 x EQL); 30 (10 - 30 x EQL); 30 (> 30 x EQL))**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

Soil QA/QC RPD Summary
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

			Lab Report Number	1234275	1234275		1234275	383658		1234275	1239729		1234275	383658-A	
			Field ID	BH05_0_0.1	QC02_20250616		BH05_0_0.1	QA02_20250616		BH12_0_0.1	QC01_20250617_J		BH12_0_0.1	QA01_20250617_J	
			Matrix Type	Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
			Date	16 Jun 2025	16 Jun 2025	RPD	16 Jun 2025	16 Jun 2025	RPD	17 Jun 2025	13 Jun 2025	RPD	17 Jun 2025	17 Jun 2025	RPD
	Unit	EQL													
Metals & Metalloids															
Arsenic	mg/kg	2	3.6	5.6	43	3.6	5	33	7.5	-	-	7.5	-	-
Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0	0.4	-	-	0.4	-	-
Chromium (III+VI)	mg/kg	1	8.0	13	48	8.0	10	22	8.6	-	-	8.6	-	-
Copper	mg/kg	1	18	33	59	18	25	33	21	-	-	21	-	-
Lead	mg/kg	1	180	140	25	180	100	57	81	-	-	81	-	-
Mercury	mg/kg	0.1	0.1	0.2	67	0.1	0.1	0	0.1	-	-	0.1	-	-
Nickel	mg/kg	1	<5	8.5	52	<5	6	18	5.7	-	-	5.7	-	-
Zinc	mg/kg	1	130	160	21	130	110	17	160	-	-	160	-	-
TPHs (NEPC 1999)															
C6-C9 Fraction	mg/kg	20	<20	<20	0	<20	<25	0	<20	-	-	<20	-	-
C10-C14 Fraction	mg/kg	20	<20	<20	0	<20	<50	0	<20	-	-	<20	-	-
C15-C28 Fraction	mg/kg	50	<50	<50	0	<50	<100	0	<50	-	-	<50	-	-
C29-C36 Fraction	mg/kg	50	<50	62	21	<50	<100	0	<50	-	-	<50	-	-
C10-C36 Fraction (Sum of Total)	mg/kg	50	<50	62	21	<50	<50	0	<50	-	-	<50	-	-
TRHs (NEPC 2013)															
C6-C10	mg/kg	20	<20	<20	0	<20	<25	0	<20	-	-	<20	-	-
C10-C16	mg/kg	50	<50	<50	0	<50	<50	0	<50	-	-	<50	-	-
C16-C34	mg/kg	100	<100	<100	0	<100	<100	0	<100	-	-	<100	-	-
C34-C40	mg/kg	100	<100	<100	0	<100	<100	0	<100	-	-	<100	-	-
C10-C40 (Sum of total)	mg/kg	50	<100	<100	0	<100	<50	0	<100	-	-	<100	-	-
F1 (C6-C10 minus BTEX)	mg/kg	20	<20	<20	0	<20	<25	0	<20	-	-	<20	-	-
F2 (C10-C16 less Naphthalene)	mg/kg	50	<50	<50	0	<50	<50	0	<50	-	-	<50	-	-
BTEXN															
Benzene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.2	0	<0.1	-	-	<0.1	-	-
Toluene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.5	0	<0.1	-	-	<0.1	-	-
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<1	0	<0.1	-	-	<0.1	-	-
Xylene (o)	mg/kg	0.1	<0.1	<0.1	0	<0.1	<1	0	<0.1	-	-	<0.1	-	-
Xylene (m & p)	mg/kg	0.2	<0.2	<0.2	0	<0.2	<2	0	<0.2	-	-	<0.2	-	-
Xylene Total	mg/kg	0.3	<0.3	<0.3	0	<0.3	<1	0	<0.3	-	-	<0.3	-	-
Naphthalene_VOC	mg/kg	0.5	<0.5	<0.5	0	<0.5	<1	0	<0.5	-	-	<0.5	-	-
PAH															
PAHs (Sum of positives)	µg/kg	50	-	-	-	-	3,300	-	-	-	-	-	-	-
Acenaphthene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	-	-	<0.5	-	-
Acenaphthylene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	-	-	<0.5	-	-
Anthracene	mg/kg	0.1	<0.5	0.8	46	<0.5	<0.1	0	<0.5	-	-	<0.5	-	-
Benz(a)anthracene	mg/kg	0.1	<0.5	1.5	100	<0.5	0.3	0	<0.5	-	-	<0.5	-	-
Benzo(a)pyrene	mg/kg	0.05	<0.5	1.6	105	<0.5	0.3	0	<0.5	-	-	<0.5	-	-
Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	2.6	74	1.2	0.5	82	1.2	-	-	1.2	-	-
Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	0.6	2.3	117	0.6	<0.5	18	0.6	-	-	0.6	-	-
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	2.1	123	<0.5	<0.5	0	<0.5	-	-	<0.5	-	-
Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5	0.9	57	<0.5	-	-	<0.5	-	-	<0.5	-	-
Benzo(b+j+k)fluoranthene	mg/kg	0.2	-	-	-	-	0.5	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	0.1	<0.5	1.5	100	<0.5	0.2	0	<0.5	-	-	<0.5	-	-
Benzo(k)fluoranthene	mg/kg	0.5	<0.5	1.4	95	<0.5	-	-	<0.5	-	-	<0.5	-	-
Chrysene	mg/kg	0.1	<0.5	1.6	105	<0.5	0.3	0	<0.5	-	-	<0.5	-	-
Dibenz(a,h)anthracene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	-	-	<0.5	-	-
Fluoranthene	mg/kg	0.1	0.7	4.5	146	0.7	0.6	15	<0.5	-	-	<0.5	-	-
Fluorene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	-	-	<0.5	-	-
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.5	0.8	46	<0.5	0.2	0	<0.5	-	-	<0.5	-	-
Naphthalene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	-	-	<0.5	-	-
Phenanthrene	mg/kg	0.1	<0.5	2.9	141	<0.5	0.3	0	<0.5	-	-	<0.5	-	-
Pyrene	mg/kg	0.1	0.6	3.9	147	0.6	0.6	0	<0.5	-	-	<0.5	-	-
PAHs (Sum of total)	mg/kg	0.5	1.3	21	177	1.3	-	-	<0.5	-	-	<0.5	-	-
Organochlorine Pesticides															
4,4-DDE	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
a-BHC	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
b-BHC	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
d-BHC	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
g-BHC (Lindane)	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Aldrin	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Dieldrin	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Aldrin + Dieldrin	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Chlordane	mg/kg	0.1	<1	<0.1	0	<1	-	-	<0.1	-	-	<0.1	-	-
Chlordane (cis)	mg/kg	0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-
Chlordane (trans)	mg/kg	0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-
DDT	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
DDD	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
DDT+DDE+DDD	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Endosulfan I	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Endosulfan II	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Endosulfan sulphate	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Endrin	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Endrin aldehyde	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Endrin ketone	mg/kg	0.05	<0.5	<0.05	0	<0.5	-	-	<0.05	-	-	<0.05	-	-
Heptachlor	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Heptachlor Epoxide	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Hexachlorobenzene	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Methoxychlor	mg/kg	0.05	<0.5	<0.05	0	<0.5	<0.1	0	<0.05	-	-	<0.05	-	-
Mirex	mg/kg	0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-

Soil QA/QC RPD Summary
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

			Lab Report Number	1234275	1234275		1234275	383658		1234275	1239729		1234275	383658-A	
			Field ID	BH05_0_0.1	QC02_20250616		BH05_0_0.1	QA02_20250616		BH12_0_0.1	QC01_20250617_J		BH12_0_0.1	QA01_20250617_J	
			Matrix Type	Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
			Date	16 Jun 2025	16 Jun 2025	RPD	16 Jun 2025	16 Jun 2025	RPD	17 Jun 2025	13 Jun 2025	RPD	17 Jun 2025	17 Jun 2025	RPD
	Unit	EQL													
Toxaphene	mg/kg	0.5	<10	<0.5	0	<10	-	-	<0.5	-	-	<0.5	-	-
Polychlorinated Biphenyls														
Arochlor 1016	mg/kg	0.1	<1	<0.1	0	<1	<0.1	0	<0.1	-	-	<0.1	-	-
Arochlor 1221	mg/kg	0.1	<1	<0.1	0	<1	<0.1	0	<0.1	-	-	<0.1	-	-
Arochlor 1232	mg/kg	0.1	<1	<0.1	0	<1	<0.1	0	<0.1	-	-	<0.1	-	-
Arochlor 1242	mg/kg	0.1	<1	<0.1	0	<1	<0.1	0	<0.1	-	-	<0.1	-	-
Arochlor 1248	mg/kg	0.1	<1	<0.1	0	<1	<0.1	0	<0.1	-	-	<0.1	-	-
Arochlor 1254	mg/kg	0.1	<1	<0.1	0	<1	<0.1	0	<0.1	-	-	<0.1	-	-
Arochlor 1260	mg/kg	0.1	<1	<0.1	0	<1	<0.1	0	<0.1	-	-	<0.1	-	-
PCBs (Sum of total)	mg/kg	0.1	<1	<0.1	0	<1	<0.1	0	<0.1	-	-	<0.1	-	-
PFAS														
Perfluorobutanoic acid (PFBA)	mg/kg	0.0002	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0002	0
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0002	0
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0001	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0001	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanoic acid (PFOA)	mg/kg	0.0001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	0.0001	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0001	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0005	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0005	0
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0005	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0005	0
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0005	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0005	0
	µg/L	0.05	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0005	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0005	0
	µg/L	0.1	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.005	0
	µg/L	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.001	0
	µg/L	0.1	-	-	-	-	-	-	-	-	-	-	-	-
N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.001	0
	µg/L	0.05	-	-	-	-	-	-	-	-	-	-	-	-
N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.001	0
	µg/L	0.1	-	-	-	-	-	-	-	-	-	-	-	-
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.001	0
	µg/L	0.05	-	-	-	-	-	-	-	-	-	-	-	-
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.005	0
	µg/L	0.5	-	-	-	-	-	-	-	-	-	-	-	-
N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.0002	-	-	-	-	-	-	<0.01	<0.01	0	<0.01	<0.0002	0
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.0002	-	-	-	-	-	-	<0.01	<0.01	0	<0.01	<0.0002	0
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.0001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0001	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.0001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0001	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.0001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0001	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0001	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.0001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	0.0034	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0002	0
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.0001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0001	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.0001	-	-	-	-	-	-	<0.01	<0.01	0	<0.01	<0.0001	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.0002	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0002	0
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.0002	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	<0.0002	0
	µg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Sum of PFHxS and PFOS	mg/kg	0.0001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	0.0034	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.0001	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	0.0035	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Sum of WA DWER PFAS (n=10)*	mg/KG	0.01	-	-	-	-	-	-	<0.01	<0.01	0	<0.01	-	-
Sum of PFAS	mg/kg	0.0001	-	-	-	-	-	-	<0.05	<0.05	0	<0.05	0.0035	0
	µg/L	0.01	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorononanesulfonic acid ion	mg/kg	0.005	-	-	-	-	-	-	<0.005	<0.005	0	<0.005	-	-
EPA VIC - IWRG621														
Organochlorine Pesticides EPAVic	mg/kg	0.1	<1	<0.1	0	<1	-	-	<0.1	-	-	<0.1	-	-
Other Organochlorine Pesticides EPAVic	mg/kg	0.1	<1	<0.1	0	<1	-	-	<0.1	-	-	<0.1	-	-

Soil QA/QC RPD Summary
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

			Lab Report Number	1234275	1234275		1234275	383658		1234275	1239729		1234275	383658-A	
			Field ID	BH05_0_0.1	QC02_20250616		BH05_0_0.1	QA02_20250616		BH12_0_0.1	QC01_20250617_J		BH12_0_0.1	QA01_20250617_J	
			Matrix Type	Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
			Date	16 Jun 2025	16 Jun 2025	RPD	16 Jun 2025	16 Jun 2025	RPD	17 Jun 2025	13 Jun 2025	RPD	17 Jun 2025	17 Jun 2025	RPD
	Unit	EQL													
Asbestos - Eurofins															
Approximate Sample Mass	g			-	-	-	-	-	-	-	-	-	-	-	-
Mass ACM	g			-	-	-	-	-	-	-	-	-	-	-	-
Mass Asbestos in ACM	g			-	-	-	-	-	-	-	-	-	-	-	-
Asbestos from ACM in Soil	% (w/w)			-	-	-	-	-	-	-	-	-	-	-	-
Mass FA	g			-	-	-	-	-	-	-	-	-	-	-	-
Mass Asbestos in FA	g			-	-	-	-	-	-	-	-	-	-	-	-
Mass AF	g			-	-	-	-	-	-	-	-	-	-	-	-
Mass asbestos in AF	g			-	-	-	-	-	-	-	-	-	-	-	-
Mass Asbestos in FA & AF	g			-	-	-	-	-	-	-	-	-	-	-	-
ACM - Comment	Comment			-	-	-	-	-	-	-	-	-	-	-	-
FA- Comment	Comment			-	-	-	-	-	-	-	-	-	-	-	-
AF - Comment	Comment			-	-	-	-	-	-	-	-	-	-	-	-
Organic Fibres - Comment	Comment			-	-	-	-	-	-	-	-	-	-	-	-
Respirable Fibres - Comment	Comment			-	-	-	-	-	-	-	-	-	-	-	-
Synthetic Fibres - Comment	Comment			-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Reported Result	Comment			-	-	-	-	-	-	-	-	-	-	-	-
Asbestos FA & AF in Soil	% (w/w)			-	-	-	-	-	-	-	-	-	-	-	-
Asbestos - Envirolab															
Asbestos ID in Soil	g/kg			-	-	-	-	-	-	-	-	-	-	-	-
Total Asbestos	g/kg			-	-	-	-	-	-	-	-	-	-	-	-
Asbestos (ACM >7mm) Estimation	% (w/w)			-	-	-	-	-	-	-	-	-	-	-	-
Asbestos in soil (<2mm AF/FA) (%w/w)	% (w/w)			-	-	-	-	-	-	-	-	-	-	-	-
Moisture Content															
Moisture Content	%	0.1		-	-	-	-	20	-	-	-	-	-	13	-
Other															
Moisture Content (dried @ 103°C)	%	1		9.6	21	75	9.6	-	-	11	11	0	11	-	-

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 30 (1 - 10 x EQL); 30 (10 - 30 x EQL); 30 (> 30 x EQL))**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

Soil QA/QC RPD Summary
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

			Lab Report Number	1234275	383658-B	
			Field ID	BH12_0_0.1	QA01_20250617_J	
			Matrix Type	Soil	Soil	
			Date	17 Jun 2025	17 Jun 2025	RPD
	Unit	EQL				
Metals & Metalloids						
Arsenic	mg/kg	2	7.5	-	-	
Cadmium	mg/kg	0.4	0.4	-	-	
Chromium (III+VI)	mg/kg	1	8.6	-	-	
Copper	mg/kg	1	21	-	-	
Lead	mg/kg	1	81	-	-	
Mercury	mg/kg	0.1	0.1	-	-	
Nickel	mg/kg	1	5.7	-	-	
Zinc	mg/kg	1	160	-	-	
TPHs (NEPC 1999)						
C6-C9 Fraction	mg/kg	20	<20	-	-	
C10-C14 Fraction	mg/kg	20	<20	-	-	
C15-C28 Fraction	mg/kg	50	<50	-	-	
C29-C36 Fraction	mg/kg	50	<50	-	-	
C10-C36 Fraction (Sum of Total)	mg/kg	50	<50	-	-	
TRHs (NEPC 2013)						
C6-C10	mg/kg	20	<20	-	-	
C10-C16	mg/kg	50	<50	-	-	
C16-C34	mg/kg	100	<100	-	-	
C34-C40	mg/kg	100	<100	-	-	
C10-C40 (Sum of total)	mg/kg	50	<100	-	-	
F1 (C6-C10 minus BTEX)	mg/kg	20	<20	-	-	
F2 (C10-C16 less Naphthalene)	mg/kg	50	<50	-	-	
BTEXN						
Benzene	mg/kg	0.1	<0.1	-	-	
Toluene	mg/kg	0.1	<0.1	-	-	
Ethylbenzene	mg/kg	0.1	<0.1	-	-	
Xylene (o)	mg/kg	0.1	<0.1	-	-	
Xylene (m & p)	mg/kg	0.2	<0.2	-	-	
Xylene Total	mg/kg	0.3	<0.3	-	-	
Naphthalene_VOC	mg/kg	0.5	<0.5	-	-	
PAH						
PAHs (Sum of positives)	µg/kg	50	-	-	-	
Acenaphthene	mg/kg	0.1	<0.5	-	-	
Acenaphthylene	mg/kg	0.1	<0.5	-	-	
Anthracene	mg/kg	0.1	<0.5	-	-	
Benz(a)anthracene	mg/kg	0.1	<0.5	-	-	
Benzo(a)pyrene	mg/kg	0.05	<0.5	-	-	
Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	-	-	
Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	0.6	-	-	
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	-	-	
Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5	-	-	
Benzo(b+j+k)fluoranthene	mg/kg	0.2	-	-	-	
Benzo(g,h,i)perylene	mg/kg	0.1	<0.5	-	-	
Benzo(k)fluoranthene	mg/kg	0.5	<0.5	-	-	
Chrysene	mg/kg	0.1	<0.5	-	-	
Dibenz(a,h)anthracene	mg/kg	0.1	<0.5	-	-	
Fluoranthene	mg/kg	0.1	<0.5	-	-	
Fluorene	mg/kg	0.1	<0.5	-	-	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.5	-	-	
Naphthalene	mg/kg	0.1	<0.5	-	-	
Phenanthrene	mg/kg	0.1	<0.5	-	-	
Pyrene	mg/kg	0.1	<0.5	-	-	
PAHs (Sum of total)	mg/kg	0.5	<0.5	-	-	
Organochlorine Pesticides						
4,4-DDE	mg/kg	0.05	<0.05	-	-	
a-BHC	mg/kg	0.05	<0.05	-	-	
b-BHC	mg/kg	0.05	<0.05	-	-	
d-BHC	mg/kg	0.05	<0.05	-	-	
g-BHC (Lindane)	mg/kg	0.05	<0.05	-	-	
Aldrin	mg/kg	0.05	<0.05	-	-	
Dieldrin	mg/kg	0.05	<0.05	-	-	
Aldrin + Dieldrin	mg/kg	0.05	<0.05	-	-	
Chlordane	mg/kg	0.1	<0.1	-	-	
Chlordane (cis)	mg/kg	0.1	-	-	-	
Chlordane (trans)	mg/kg	0.1	-	-	-	
DDT	mg/kg	0.05	<0.05	-	-	
DDD	mg/kg	0.05	<0.05	-	-	
DDT+DDE+DDD	mg/kg	0.05	<0.05	-	-	
Endosulfan I	mg/kg	0.05	<0.05	-	-	
Endosulfan II	mg/kg	0.05	<0.05	-	-	
Endosulfan sulphate	mg/kg	0.05	<0.05	-	-	
Endrin	mg/kg	0.05	<0.05	-	-	
Endrin aldehyde	mg/kg	0.05	<0.05	-	-	
Endrin ketone	mg/kg	0.05	<0.05	-	-	
Heptachlor	mg/kg	0.05	<0.05	-	-	
Heptachlor Epoxide	mg/kg	0.05	<0.05	-	-	
Hexachlorobenzene	mg/kg	0.05	<0.05	-	-	
Methoxychlor	mg/kg	0.05	<0.05	-	-	
Mirex	mg/kg	0.1	-	-	-	

Soil QA/QC RPD Summary
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

			Lab Report Number	1234275	383658-B	
			Field ID	BH12_0_0.1	QA01_20250617_J	
			Matrix Type	Soil	Soil	
			Date	17 Jun 2025	17 Jun 2025	RPD
	Unit	EQL				
Toxaphene	mg/kg	0.5		<0.5	-	-
Polychlorinated Biphenyls						
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	-	-
PCBs (Sum of total)	mg/kg	0.1		<0.1	-	-
PFAS						
Perfluorobutanoic acid (PFBA)	mg/kg	0.0002		<0.005	-	-
	µg/L	0.02		-	<0.02	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002		<0.005	-	-
	µg/L	0.02		-	<0.02	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001		<0.005	-	-
	µg/L	0.01		-	<0.01	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001		<0.005	-	-
	µg/L	0.01		-	<0.01	-
Perfluorooctanoic acid (PFOA)	mg/kg	0.0001		<0.005	-	-
	µg/L	0.01		-	<0.01	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0001		<0.005	-	-
	µg/L	0.01		-	<0.01	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0005		<0.005	-	-
	µg/L	0.02		-	<0.02	-
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0005		<0.005	-	-
	µg/L	0.02		-	<0.02	-
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0005		<0.005	-	-
	µg/L	0.05		-	<0.05	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0005		<0.005	-	-
	µg/L	0.1		-	<0.1	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005		<0.005	-	-
	µg/L	0.5		-	<0.5	-
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.001		<0.005	-	-
	µg/L	0.1		-	<0.1	-
N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.001		<0.005	-	-
	µg/L	0.05		-	<0.05	-
N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.001		<0.005	-	-
	µg/L	0.1		-	<0.1	-
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.001		<0.005	-	-
	µg/L	0.05		-	<0.05	-
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005		<0.005	-	-
	µg/L	0.5		-	<0.5	-
N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.0002		<0.01	-	-
	µg/L	0.02		-	<0.02	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.0002		<0.01	-	-
	µg/L	0.02		-	<0.02	-
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005		<0.005	-	-
Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.0001		<0.005	-	-
	µg/L	0.01		-	<0.01	-
Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.0001		<0.005	-	-
	µg/L	0.01		-	<0.01	-
Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.0001		<0.005	-	-
	µg/L	0.01		-	<0.01	-
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0001		<0.005	-	-
	µg/L	0.01		-	<0.01	-
Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.0001		<0.005	-	-
	µg/L	0.01		-	0.03	-
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002		<0.005	-	-
	µg/L	0.02		-	<0.02	-
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.0001		<0.005	-	-
	µg/L	0.01		-	<0.01	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.0001		<0.01	-	-
	µg/L	0.01		-	<0.01	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.0002		<0.005	-	-
	µg/L	0.02		-	<0.02	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.0002		<0.005	-	-
	µg/L	0.02		-	<0.02	-
Sum of PFHxS and PFOS	mg/kg	0.0001		<0.005	-	-
	µg/L	0.01		-	0.03	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005		<0.005	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.0001		<0.005	-	-
	µg/L	0.01		-	0.03	-
Sum of WA DWER PFAS (n=10)*	mg/KG	0.01		<0.01	-	-
Sum of PFAS	mg/kg	0.0001		<0.05	-	-
	µg/L	0.01		-	0.03	-
Perfluorononanesulfonic acid ion	mg/kg	0.005		<0.005	-	-
EPA VIC - IWRG621						
Organochlorine Pesticides EPAVic	mg/kg	0.1		<0.1	-	-
Other Organochlorine Pesticides EPAVic	mg/kg	0.1		<0.1	-	-

Soil QA/QC RPD Summary
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

		Lab Report Number	1234275	383658-B	
		Field ID	BH12_0_0.1	QA01_20250617_J	
		Matrix Type	Soil	Soil	
		Date	17 Jun 2025	17 Jun 2025	RPD
	Unit	EQL			
Asbestos - Eurofins					
Approximate Sample Mass	g		-	-	-
Mass ACM	g		-	-	-
Mass Asbestos in ACM	g		-	-	-
Asbestos from ACM in Soil	% (w/w)		-	-	-
Mass FA	g		-	-	-
Mass Asbestos in FA	g		-	-	-
Mass AF	g		-	-	-
Mass asbestos in AF	g		-	-	-
Mass Asbestos in FA & AF	g		-	-	-
ACM - Comment	Comment		-	-	-
FA- Comment	Comment		-	-	-
AF - Comment	Comment		-	-	-
Organic Fibres - Comment	Comment		-	-	-
Respirable Fibres - Comment	Comment		-	-	-
Synthetic Fibres - Comment	Comment		-	-	-
Asbestos Reported Result	Comment		-	-	-
Asbestos FA & AF in Soil	% (w/w)		-	-	-
Asbestos - Envirolab					
Asbestos ID in Soil	g/kg		-	-	-
Total Asbestos	g/kg		-	-	-
Asbestos (ACM >7mm) Estimation	% (w/w)		-	-	-
Asbestos in soil (<2mm AF/FA) (%w/w)	% (w/w)		-	-	-
Moisture Content					
Moisture Content	%	0.1	-	-	-
Other					
Moisture Content (dried @ 103°C)	%	1	11	-	-

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 30 (1 - 10 x EQL); 30 (10 - 30 x EQL); 30 (> 30 x EQL))**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

Groundwater QA/QC Summary Table
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

			Lab Report Number	1239171	1239171		1239171	384779		1244378	1244378		1244378	384779-A	
			Field ID	MW02	QC01_20250630		MW02	QA01_20250630		MW02	QC01_20250630		MW02	QA01_20250630	
			Matrix Type	Water	Water		Water	Water		Water	Water		Water	Water	
			Date	30 Jun 2025	30 Jun 2025	RPD	30 Jun 2025	30 Jun 2025	RPD	30 Jun 2025	30 Jun 2025	RPD	30 Jun 2025	30 Jun 2025	RPD
	Unit	EQL													
Metals & Metalloids															
Arsenic (filtered)	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Cadmium (filtered)	mg/L	0.0001	<0.0002	<0.0002	0	<0.0002	<0.0001	0	-	-	-	-	-	-
Chromium (III+VI) (filtered)	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Copper (filtered)	mg/L	0.001	0.001	<0.001	0	0.001	<0.001	0	-	-	-	-	-	-
Lead (filtered)	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Mercury (filtered)	mg/L	0.00005	<0.0001	<0.0001	0	<0.0001	<0.00005	0	-	-	-	-	-	-
Nickel (filtered)	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Zinc (filtered)	mg/L	0.001	<0.005	<0.005	0	<0.005	<0.001	0	-	-	-	-	-	-
TPHs (NEPC 1999)															
C6-C9 Fraction	mg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	-	-	-	-	-	-
C10-C14 Fraction	mg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	-	-	-	-	-	-
C15-C28 Fraction	mg/L	0.1	<0.1	<0.1	0	<0.1	<0.1	0	-	-	-	-	-	-
C29-C36 Fraction	mg/L	0.1	<0.1	<0.1	0	<0.1	<0.1	0	-	-	-	-	-	-
C10-C36 Fraction (Sum of Total)	mg/L	0.05	<0.1	<0.1	0	<0.1	<0.05	0	-	-	-	-	-	-
TRHs (NEPC 2013)															
C6-C10	mg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	-	-	-	-	-	-
C10-C16	mg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	-	-	-	-	-	-
C16-C34	mg/L	0.1	<0.1	<0.1	0	<0.1	<0.1	0	-	-	-	-	-	-
C34-C40	mg/L	0.1	<0.1	<0.1	0	<0.1	<0.1	0	-	-	-	-	-	-
C10-C40 (Sum of total)	mg/L	0.05	<0.1	<0.1	0	<0.1	<0.05	0	-	-	-	-	-	-
F1 (C6-C10 minus BTEX)	mg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	-	-	-	-	-	-
F2 (C10-C16 less Naphthalene)	mg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	-	-	-	-	-	-
BTEXN															
Benzene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Toluene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Ethylbenzene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Xylene (o)	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Xylene (m & p)	mg/L	0.002	<0.002	<0.002	0	<0.002	<0.002	0	-	-	-	-	-	-
Xylene Total	mg/L	0.003	<0.003	<0.003	0	<0.003	-	-	-	-	-	-	-	-
Naphthalene_VOC	mg/L	0.001	<0.01	<0.01	0	<0.01	<0.001	0	-	-	-	-	-	-
PAH															
PAHs (Sum of positives)	µg/L	0.1	-	-	-	-	<0.1	-	-	-	-	-	-	-
Acenaphthene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Acenaphthylene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Anthracene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Benz(a)anthracene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Benzo(a)pyrene TEQ	mg/L	0.0005	-	-	-	-	<0.0005	-	-	-	-	-	-	-
Benzo(b+j)fluoranthene	mg/L	0.001	<0.001	<0.001	0	<0.001	-	-	-	-	-	-	-	-
Benzo(b+j+k)fluoranthene	mg/L	0.0002	-	-	-	-	<0.0002	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	0.001	<0.001	<0.001	0	<0.001	-	-	-	-	-	-	-	-
Chrysene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Fluoranthene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Fluorene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Indeno(1,2,3-c,d)pyrene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Naphthalene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Phenanthrene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
Pyrene	mg/L	0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	-	-	-	-	-	-
PAHs (Sum of total)	mg/L	0.001	<0.001	<0.001	0	<0.001	-	-	-	-	-	-	-	-
Chlorinated Alkanes															
1,1,1,2-tetrachloroethane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1,1,1-trichloroethane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1,1,2,2-tetrachloroethane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1,1,2-trichloroethane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1,1-dichloroethane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1,2,3-trichloropropane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1,2-dibromo-3-chloropropane	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
1,2-dichloroethane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1,2-dichloropropane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1,3-dichloropropane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
2,2-dichloropropane	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
Bromochloromethane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Carbon tetrachloride	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Chloroethane	mg/L	0.005	<0.005	<0.005	0	<0.005	<0.01	0	-	-	-	-	-	-
Chloromethane	mg/L	0.005	<0.005	<0.005	0	<0.005	<0.01	0	-	-	-	-	-	-
Dichlorodifluoromethane	mg/L	0.005	<0.005	<0.005	0	<0.005	<0.01	0	-	-	-	-	-	-
Dichloromethane	mg/L	0.005	<0.005	<0.005	0	<0.005	-	-	-	-	-	-	-	-
Trichlorofluoromethane	mg/L	0.005	<0.005	<0.005	0	<0.005	<0.01	0	-	-	-	-	-	-

Groundwater QA/QC Summary Table
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

			Lab Report Number	1239171	1239171		1239171	384779		1244378	1244378		1244378	384779-A	
			Field ID	MW02	QC01_20250630		MW02	QA01_20250630		MW02	QC01_20250630		MW02	QA01_20250630	
			Matrix Type	Water	Water		Water	Water		Water	Water		Water	Water	
			Date	30 Jun 2025	30 Jun 2025	RPD	30 Jun 2025	30 Jun 2025	RPD	30 Jun 2025	30 Jun 2025	RPD	30 Jun 2025	30 Jun 2025	RPD
	Unit	EQL													
Chlorinated Alkenes															
Vinyl Chloride	mg/L	0.005	<0.005	<0.005	0	<0.005	<0.01	0	-	-	-	-	-	-
1,1-dichloroethene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1,1-dichloropropene	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
2-chlorotoluene	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
3-chloropropene	mg/L	0.001	<0.001	<0.001	0	<0.001	-	-	-	-	-	-	-	-
4-chlorotoluene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
cis-1,2-dichloroethene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
cis-1,3-dichloropropene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
trans-1,2-dichloroethene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
trans-1,3-dichloropropene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Trichloroethene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Solvents															
Acetone	mg/L	0.005	<0.005	<0.005	0	<0.005	-	-	-	-	-	-	-	-
PFAS															
Perfluorobutanoic acid (PFBA)	µg/L	0.002	<0.005	<0.005	0	<0.005	0.003	0	-	-	-	-	-	-
Perfluoropentanoic acid (PFPeA)	µg/L	0.001	0.002	0.002	0	0.002	0.004	67	-	-	-	-	-	-
Perfluorohexanoic acid (PFHxA)	µg/L	0.001	0.004	0.004	0	0.004	0.002	67	-	-	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	µg/L	0.001	0.003	0.003	0	0.003	0.005	50	-	-	-	-	-	-
Perfluorooctanoic acid (PFOA)	µg/L	0.001	0.025	0.026	4	0.025	0.029	15	-	-	-	-	-	-
Perfluorononanoic acid (PFNA)	µg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Perfluorodecanoic acid (PFDA)	µg/L	0.001	<0.001	<0.001	0	<0.001	<0.002	0	-	-	-	-	-	-
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.001	<0.001	<0.001	0	<0.001	<0.002	0	-	-	-	-	-	-
Perfluorododecanoic acid (PFDoDA)	µg/L	0.001	<0.001	<0.001	0	<0.001	<0.005	0	-	-	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.001	<0.001	<0.001	0	<0.001	<0.02	0	-	-	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.001	<0.001	<0.001	0	<0.001	<0.1	0	-	-	-	-	-	-
Perfluorooctane sulfonamide (FOSA)	µg/L	0.005	<0.005	<0.005	0	<0.005	<0.01	0	-	-	-	-	-	-
N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.005	<0.005	<0.005	0	<0.005	<0.05	0	-	-	-	-	-	-
N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.005	<0.005	<0.005	0	<0.005	<0.1	0	-	-	-	-	-	-
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.005	<0.005	<0.005	0	<0.005	<0.05	0	-	-	-	-	-	-
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.005	<0.005	<0.005	0	<0.005	<0.5	0	-	-	-	-	-	-
N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.002	<0.005	<0.005	0	<0.005	<0.002	0	-	-	-	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.002	<0.005	<0.005	0	<0.005	<0.002	0	-	-	-	-	-	-
Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.001	<0.001	<0.001	0	<0.001	-	-	-	-	-	-	-	-
Perfluorobutanesulfonic acid (PFBS)	µg/L	0.001	0.002	0.002	0	0.002	0.003	40	-	-	-	-	-	-
Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.001	<0.001	<0.001	0	<0.001	0.001	0	-	-	-	-	-	-
Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.001	0.028	0.029	4	0.028	0.035	22	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.001	0.002	0.002	0	0.002	0.003	40	-	-	-	-	-	-
Perfluorooctanesulfonic acid (PFOS)	µg/L	0.0001	0.029	0.033	13	0.029	0.038	27	-	-	-	-	-	-
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.001	<0.001	<0.001	0	<0.001	<0.002	0	-	-	-	-	-	-
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	µg/L	0.001	<0.005	<0.005	0	<0.005	<0.001	0	-	-	-	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	µg/L	0.001	<0.001	<0.001	0	<0.001	<0.002	0	-	-	-	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	µg/L	0.001	<0.001	<0.001	0	<0.001	<0.002	0	-	-	-	-	-	-
Sum of PFHxS and PFOS	µg/L	0.001	0.057	0.062	8	0.057	0.073	25	-	-	-	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.001	0.082	0.088	7	0.082	-	-	-	-	-	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.001	0.054	0.059	9	0.054	0.067	21	-	-	-	-	-	-
Sum of WA DWER PFAS (n=10)*	ug/L	0.005	0.093	0.099	6	0.093	-	-	-	-	-	-	-	-
Sum of PFAS	µg/L	0.001	0.095	0.101	6	0.095	0.12	23	-	-	-	-	-	-
Perfluorononanesulfonic acid ion	µg/L	0.001	<0.001	<0.001	0	<0.001	-	-	-	-	-	-	-	-
MAH															
1,2,4-trimethylbenzene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1,3,5-trimethylbenzene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
n-butylbenzene	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
n-propylbenzene	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
p-isopropyltoluene	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
sec-butylbenzene	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
Styrene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
tert-butylbenzene	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
Total MAH	mg/L	0.003	<0.003	<0.003	0	<0.003	-	-	-	-	-	-	-	-
Bromobenzene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Isopropylbenzene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-

Groundwater QA/QC Summary Table
Project Number: 69149
Project Name: Pagewood

Field or Interlab Duplicates

		Lab Report Number	1239171	1239171		1239171	384779		1244378	1244378		1244378	384779-A	
		Field ID	MW02	QC01_20250630		MW02	QA01_20250630		MW02	QC01_20250630		MW02	QA01_20250630	
		Matrix Type	Water	Water		Water	Water		Water	Water		Water	Water	
		Date	30 Jun 2025	30 Jun 2025	RPD	30 Jun 2025	30 Jun 2025	RPD	30 Jun 2025	30 Jun 2025	RPD	30 Jun 2025	30 Jun 2025	RPD
	Unit	EQL												
Miscellaneous Hydrocarbons														
1,2-dibromoethane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Bromomethane	mg/L	0.005	<0.005	<0.005	0	<0.005	<0.01	0	-	-	-	-	-	-
Cyclohexane	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
Dibromomethane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Iodomethane	mg/L	0.001	<0.001	<0.001	0	<0.001	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	mg/L	0.005	<0.005	<0.005	0	<0.005	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	mg/L	0.005	<0.005	<0.005	0	<0.005	-	-	-	-	-	-	-	-
Chlorinated Benzenes														
1,2,3-trichlorobenzene	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
1,2,4-trichlorobenzene	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1,3-dichlorobenzene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
1,4-dichlorobenzene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Chlorobenzene	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Trihalomethanes														
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Chloroform	mg/L	0.001	<0.005	<0.005	0	<0.005	<0.001	0	-	-	-	-	-	-
Tribromomethane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001	0	-	-	-	-	-	-
Organic Sulfur Compounds														
Carbon disulfide	mg/L	0.001	<0.001	<0.001	0	<0.001	-	-	-	-	-	-	-	-
Non-Metallic Inorganics														
Ammonia as N (filtered)	mg/L	0.005	-	-	-	-	-	-	-	-	-	-	0.02	-
Nitrate (as N)	mg/L	0.005	-	-	-	-	-	-	3.8	3.9	3	3.8	-	-
Nitrate (as N) (filtered)	mg/L	0.005	-	-	-	-	-	-	-	-	-	-	3.4	-
Nitrite (as N)	mg/L	0.005	-	-	-	-	-	-	<0.02	<0.02	0	<0.02	-	-
Nitrite (as N) (filtered)	mg/L	0.005	-	-	-	-	-	-	-	-	-	-	<0.005	-
Nitrogen (Total)	mg/L	0.2	-	-	-	-	-	-	4.5	4.8	6	4.5	-	-
Kjeldahl Nitrogen Total	mg/L	0.1	-	-	-	-	-	-	0.7	0.9	25	0.7	0.1	150
Ionic Balance														
Electrical Conductivity (Lab)	µS/cm	10	200	190	5	200	-	-	-	-	-	-	-	-
pH (Lab)	pH Units	0.1	6.6	6.7	2	6.6	6.5	2	-	-	-	-	-	-
EPA VIC - IWRG621														
Chlorinated Hydrocarbons EPAVic	mg/L	0.005	<0.005	<0.005	0	<0.005	-	-	-	-	-	-	-	-
Other Chlorinated Hydrocarbons EPAVic	mg/L	0.005	<0.005	<0.005	0	<0.005	-	-	-	-	-	-	-	-
Inorganics														
Electrical Conductivity (Non Compensated)	µS/cm	1	-	-	-	-	180	-	-	-	-	-	-	-
Nitrite + Nitrate as N	mg/L	0.05	-	-	-	-	-	-	3.8	3.9	3	3.8	-	-
Chlorinated Hydrocarbons														
Hexachlorobutadiene	mg/L	0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
Other														
TDS	mg/L	5	130	130	0	130	130	0	-	-	-	-	-	-

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**

****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 30 (1 - 10 x EQL); 30 (10 - 30 x EQL); 30 (> 30 x EQL))**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

Appendix H Laboratory Reports and Chain of Custody Documentation

Eurofins 1 of 9

Chain of Custody

JBS&G

PROJECT NO.: 69149
PROJECT NAME: Pagewood
DATE NEEDED BY: std TAT
LABORATORY BATCH NO.:
SAMPLERS: Nicola Bennett
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....Lholmes.....@jbsg.com.au; (3) .....NBENNETT.....@jbsg.com.au jbsglabresults@...
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	TRH/BTEX	OCPs/PCBs	PAHs	PFAS	pH, EC, CEC	TCLP CHM/PAHs	TCLP PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH02/MW01_0-0.1	Soil	13/6		Jar + PFAS + ice		X	X			X	X					X	
_0.3-0.4																	
_0.5-0.6																	
_1.0-1.1																	
_2.0-2.1																	
_3.0-3.1						X	X			X	X					X	
_4.0-4.1																	
_5.0-5.1																	
_6.0-6.1																	
_7.0-7.1						X	X			X						X	
_8.0-8.1																	
_9.0-9.1																	
_9.9-10.0						X	X	X	X	X						X	
_0-0.3				bag		X										X	
_0.3-0.5																	
BH08_0-0.1				Jar + PFAS + ice		X	X	X	X	X						X	
_0.3-0.4																	
_0.5-0.6																	
_1.0-1.1																	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [redacted] DATE: 18/6/25	CONSIGNMENT NOTE NO.	NAME: Blake Gatt	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 5:09pm	COOLER TEMP ..... deg C -0.9
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF: 18/6/25	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Eurofins 2 of 9

Chain of Custody

JBS&G

PROJECT NO.: 69149	LABORATORY BATCH NO.:
PROJECT NAME: Ridgewood	SAMPLERS: Nicole Bennett
DATE NEEDED BY: std TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Lholmes@jbsg.com.au; (3) NBENNETT@jbsg.com.au, jbsglabresults@...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	TRH/BTEX	OCPs/PCBs	PAHs	PFAS	pH, EC, CEC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH08_2.0-2.1	soil	13/6		Jar + PFAS + ice			X			X					
↓ _2.9-3.0	↓	↓		↓			X			X	X				
_0-0.3				bag											
_0.3-0.5				↓		X								X	
QC01_20250613				Jar + ice			X								
_J				PFAS + ice							X				
_AQ				bag		X								X	
BH11/MW02_0-0.1				Jar + PFAS + ice			X	X	X	X	X				
_0.3-0.4															
_0.5-0.6															
_1.0-1.1															
_2.0-2.1															
_3.0-3.1							X			X					
_4.0-4.1															
_5.0-5.1															
_6.0-6.1															
_7.0-7.1															
_8.0-8.1															
_9.0-9.1															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [redacted] DATE: 18/6/25	CONSIGNMENT NOTE NO.	NAME: Brooke Ozan	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 5:04pm	COOLER TEMP ..... deg C -0.4
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF: 18/6/25	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Eurofins 3 of 9

Chain of Custody

JBS&G

PROJECT NO.: 69149
PROJECT NAME: Pagewood
DATE NEEDED BY: std TAT
LABORATORY BATCH NO.:
SAMPLERS: Nicole Bennett
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....Lholmes.....@jbsg.com.au; (3) .....NBENNETT.....@jbsg.com.au . jbsglabresults@...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	TRH/BTEX	OCPs/PCBs	PAHs	PFAS	pH, EC, CEC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH11/MW02_9.9-10	soil	13/6		Jar + PFAS + ice			X			X					
↓ -0-0.3		↓		bag		X								X	
QC02_20250613_J				PFAS + ice							X				
BH09_0-0.1		16/6		J + PFAS + ice			X	X	X	X					
-0.3-0.4				↓											
-0.5-0.6															
-0.9-1.0															
-0-0.3				bag		X								X	
BH10_0-0.1				J + PFAS + ice			X	X	X	X					
-0.3-0.4				↓											
-0.5-0.6															
-0-0.3				bag		X								X	
BH07_0-0.1				J + PFAS + ice			X	X	X	X	X				
-0.3-0.4				↓											
-0.5-0.6															
-0.9-1.0															
-0-0.4				bag		X								X	
BH05_0-0.1				J + PFAS + ice			X	X	X	X					
↓ -0.3-0.4				↓											

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [signature] DATE: 18/6/25	CONSIGNMENT NOTE NO.	NAME: Blake Getz	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 19/6/2025	COOLER TEMP -0.4 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF: 4 SCPLS	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Eurofins 4 of 9

Chain of Custody

JBS&G

PROJECT NO.: 69149
PROJECT NAME: Pagewood
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Nicole Bennett
QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....Lholmes.....@jbsg.com.au; (3) .....NBENNETT.....@jbsg.com.au, jbsglabresults@...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	TRH/BTEX	OCPs/PCBs	PAHs	PFAS	pH, EC, CEC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH05_0.5-0.6	soil	16/6		J + ice + PFAS											
↓ -0.9-1.0	↓	↓	↓	↓	↓										
↓ -0-0.5	↓	↓	↓	bag	↓	Y									
BH04_0-0.1	↓	↓	↓	J + ice + PFAS	↓		X	X	X	X				X	
↓ -0.3-0.4	↓	↓	↓	↓	↓										
↓ -0.5-0.6	↓	↓	↓	↓	↓										
↓ -0-0.4	↓	↓	↓	bag	↓	X									
BH01_0-0.1	↓	↓	↓	J + ice + PFAS	↓		X	X	X	X				X	
↓ -0.3-0.4	↓	↓	↓	↓	↓										
↓ -0.5-0.6	↓	↓	↓	↓	↓										
↓ -0.9-1.0	↓	↓	↓	↓	↓										
↓ -0-0.3	↓	↓	↓	bag	↓	X									
BH06_0-0.1	↓	↓	↓	J + ice + PFAS	↓		X	X	X	X				X	
↓ -0.3-0.4	↓	↓	↓	↓	↓										
↓ -0.5-0.6	↓	↓	↓	↓	↓										
↓ -0-0.4	↓	↓	↓	bag	↓	X									
BH03_0-0.1	↓	↓	↓	J + ice + PFAS	↓		X	X	X	X				X	
↓ -0.3-0.4	↓	↓	↓	↓	↓										
↓ -0.5-0.6	↓	↓	↓	↓	↓										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: ~~N Bennett~~ DATE: 18/6/25	CONSIGNMENT NOTE NO.	NAME: Mal Re Ouc	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 5.00pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	NAME: DATE: 18/6/25	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Eurofins 5 of 9

Chain of Custody

JBS&G

PROJECT NO.: 69149	LABORATORY BATCH NO.:
PROJECT NAME: Pagewood	SAMPLERS: Nicola Bennett
DATE NEEDED BY: STD TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) LholmesNBENNETT@jbsg.com.au; (3) jbsglabresults@...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	TRH/BTEX	OCPs, IACBs	PFAS	pH, EC, CEC	PAHs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH03_0.9-1.0	soil	16/6		J + ice											
↓ -0-0.4	↓	↓		bag		X								X	
QC01_20250616				jar + ice			X								
QC03_20250616				~~PFAS~~ + ice			X								
QC01_20250616_J				↓											
QC01_20250616_ACO				bag		X									
QC02_20250616				jar + ice			X							X	
↓ _J				PFAS + ice											
QC04_20250616_J				↓											
~~↓ -20250616~~				~~jar + ice~~			~~X~~								
QC03_20250616_J		↓		PFAS + ice											
BH13_0-0.1		17/6		J + ice + PFAS			X	X	Y			X			
↓ -0.3-0.4				↓											
↓ -0.5-0.5															
↓ -0-0.3				bag		X								X	
BH12_0-0.1				J + ice + PFAS			X	X	X	X		X			
↓ -0.3-0.4				↓											
↓ -0.5-0.6															
↓ -0-0.3	↓	↓		bag		X								X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: ~~Bennett~~ DATE: 18/6/25	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF:	-0.9
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE: 18/6/25	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
			COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Eurofins 6 of 9

Chain of Custody

JBS&G

PROJECT NO.: 69149
PROJECT NAME: Pagewood
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Nicole Bennett
QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Lholmes@jbsg.com.au; (3) NBENNETT@jbsg.com.au, jbsglabresults@...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	TRH/BTEX	PAHs	OCPs/PCBs	PAHs	PFAS	pH, EC, CEC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH12_FRAG	Material	17/6		bag		X								X		
BH14_0-0.1	soil			J + ice + PFAS			X				X					
-0.3-0.4																
-0.5-0.6																
-0.9-1.0																
_0-0.3				bag		X										
BH15_0-0.1				J + ice + PFAS			X	X		X	X				X	
-0.3-0.4																
-0.5-0.6																
-0.9-1.0																
-0-0.3				bag		X										
BH17_0-0.1				J + ice + PFAS			X	X		X	X				X	
-0.3-0.4																
-0.5-0.6																
-0.9-1.0																
-0-0.4				bag		X										
BH20_0-0.1				J + ice + PFAS			X	X		X	X	X			X	
-0.3-0.4																
-0.5-0.6																

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [redacted] DATE: 18/6/25	CONSIGNMENT NOTE NO.	NAME: Bianca Gucs	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/6/25 5:00pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C -0.9

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Eurofins 7 of 9

Chain of Custody

JBS&G

PROJECT NO.: 69149
PROJECT NAME: Pagewood
DATE NEEDED BY: STD TAT
LABORATORY BATCH NO.:
SAMPLERS: Nicole Bennett
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) LHolmes@jbsg.com.au; (3) NBENNETT@jbsg.com.au jbsglabresults@...
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	TRH/BTEX	OCPs / PCBs	PAHs	PFAS	pH, EC, CEC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH20_0.9-1.0	soil	17/6		J + ice											
↓ -0-0.2	↓	↓		bag		X								X	
BH19_0-0.8				↓		X								X	
↓ -0-0.1				J + ice			X	X	X	X					
-0.3-0.4				↓											
-0.5-0.6															
↓ -1.0-1.1															
↓ FRAG	material			bag		X							X		
BH18_0-0.1				J + ice			X	X	X	X	X				
-0.3-0.4							X			X					
↓ -0.5-0.6				↓											
↓ -0-0.2				bag		X								X	
QC02_20250617				jar + ice			X								
QC04_20250617_J				PFAS + ice											
QC03_20250617_J				↓											
QC02_20250617_J															
QC01_20250617_J															
QC01_20250617	↓	↓		jar + ice			X								
BH11/MW02_FRAG	material	13/6		bag											

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nicole Bennett DATE: 18/6/25	CONSIGNMENT NOTE NO.	NAME: Mark Fidelis Cortes	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 19/6/25	COOLER TEMP ..... deg C -0.9
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF: 18/6/25	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Eurofins 8 of 9

Chain of Custody

JBS&G

PROJECT NO.: 69164	LABORATORY BATCH NO.:
PROJECT NAME: Pagewood	SAMPLERS: Nicola Bennett
DATE NEEDED BY: STD TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au, jbsglabresults@...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	TRH/BTEX	OCPs/PCBs	PAHs	PFAS	pH, EC, CEC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH16_0-0.1	soil	18/6		J+ PFAS + ice			X	X	X	X					
-0.3-0.4															
-0.5-0.6															
-1.0-1.1															
-2.0-2.1															
-3.0-3.1												X			
-0-0.3				bag		X								X	
BH21/MW03_0-0.1				J+ PFAS + ice			X	X	X	X	X				
-0.3-0.4															
-0.5-0.6															
-1.0-1.1															
-2-2.1															
-3-3.1							X			X					
-4-4.1															
-5-5.1															
-6-6.1															
-7-7.1															
-8-8.1							X			X					
-9-9.1															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [redacted] DATE: 18/6/25	CONSIGNMENT NOTE NO.	NAME: Nicole Gerth	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/6/25	COOLER TEMP -0.4 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Eurofins 9 of 9

Chain of Custody

JBS&G

PROJECT NO.: 69169
PROJECT NAME: Pagewood
DATE NEEDED BY: STD TAT
LABORATORY BATCH NO.:
SAMPLERS: Nicole Bennett
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) LholmesNBENNETT@jbsg.com.au; (3) NBENNETT@jbsg.com.au, jbsglabresults@...
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	TRH/BTEX	OCPs/PCBs	PAHs	PFAS	pH, EC, CEC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH21/MW03_9.9-10.0	soil	18/6		J + PFAS + ice			X			X					
↓ -0-0.3	↓	↓		bag		X								X	
QC01_20250618_J	↓	↓		PFAS + ice											
QC02_ ↓	↓	↓		↓											
RINSATE	water	17/6		bottles + vials + ice			X	X	X	X	X				
BLANK	↓	↓		bottles + ice			X	X	X	X	X				
TS/TB	↓	18/6		vials + ice				X							

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 18/6/25	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: 5:00PM	COOLER TEMP ..... deg C 0.9
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF: 18/6/25	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

2

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www.eurofins.com.au EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Lauren Holmes
Project name:	PAGEWOOD
Project ID:	69149
Turnaround time:	5 Day
Date/Time received	Jun 18, 2025 5:09 PM
Eurofins reference	1234275

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : -.9 degrees Celsius.
✗	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Extra sample: BH13_0.9_1.0, Received two Pfas container: QC02_202506_16_J, BH16_0.5_0.6

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: Andrew.Black@eurofinsanz.com

Results will be delivered electronically via email to Lauren Holmes - lholmes@jbsg.com.au.

Global Leader - Results you can trust

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1234275
Phone: 02 8245 0300
Fax:

Received: Jun 18, 2025 5:09 PM
Due: Jun 25, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail	Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD*	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254										X				
Sydney Laboratory - NATA # 1261 Site # 18217	X	X	X	X	X	X	X	X	X		X	X	X	X
External Laboratory														

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID													
1	BH02/MW01_0_0.1	Jun 13, 2025		Soil	S25-Jn0050852					X	X			X				X	
2	BH02/MW01_3_3.1	Jun 13, 2025		Soil	S25-Jn0050853				X	X	X			X	X				
3	BH02/MW01_7_7.1	Jun 13, 2025		Soil	S25-Jn0050854					X	X			X					
4	BH02/MW01_9.9_10	Jun 13, 2025		Soil	S25-Jn0050855					X	X		X	X		X			
5	BH02/MW01_0_0.3	Jun 13, 2025		Soil	S25-Jn0050856	X													
6	BH08_0_0.1	Jun 13, 2025		Soil	S25-Jn0050857					X	X		X	X		X			
7	BH08_2_2.1	Jun 13, 2025		Soil	S25-Jn0050858					X	X			X					
8	BH08_2.9_3	Jun 13, 2025		Soil	S25-Jn0050859					X	X			X				X	
9	BH08_0.3_0.5	Jun 13, 2025		Soil	S25-Jn0050860	X													
10	QC01_202506	Jun 13, 2025		Soil	S25-Jn0050861						X			X					

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+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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NATA# 2377
Site# 2370 & 2554

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1234275
Phone: 02 8245 0300
Fax:

Received: Jun 18, 2025 5:09 PM
Due: Jun 25, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
	13																		
11	QC01_20250613_J	Jun 13, 2025		Soil	S25-Jn0050862									X				X	
12	QC01_20250613_AQ	Jun 13, 2025		Soil	S25-Jn0050863	X													
13	BH11/MW02_0_0.1	Jun 13, 2025		Soil	S25-Jn0050864					X	X		X	X		X		X	
14	BH11/MW02_3_3.1	Jun 13, 2025		Soil	S25-Jn0050865					X	X			X					
15	BH11/MW02_9.9_10	Jun 13, 2025		Soil	S25-Jn0050866					X	X			X					
16	BH11/MW02_0_0.3	Jun 13, 2025		Soil	S25-Jn0050867	X													
17	QC02_20250613_J	Jun 13, 2025		Soil	S25-Jn0050868									X				X	
18	BH09_0_0.1	Jun 16, 2025		Soil	S25-Jn0050869					X	X		X	X		X			
19	BH09_0_0.3	Jun 16, 2025		Soil	S25-Jn0050870	X													
20	BH10_0_0.1	Jun 16, 2025		Soil	S25-Jn0050871					X	X		X	X		X			

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
21	BH10_0_0.3	Jun 16, 2025		Soil	S25-Jn0050872	X													
22	BH07_0_0.1	Jun 16, 2025		Soil	S25-Jn0050873					X	X		X	X		X		X	
23	BH05_0_0.1	Jun 16, 2025		Soil	S25-Jn0050874					X	X		X	X		X			
24	BH05_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050875					X	X		X	X		X			
25	BH05_0_0.5	Jun 16, 2025		Soil	S25-Jn0050876	X													
26	BH04_0_0.1	Jun 16, 2025		Soil	S25-Jn0050877					X	X		X	X		X			
27	BH04_0_0.4	Jun 16, 2025		Soil	S25-Jn0050878	X													
28	BH01_0_0.1	Jun 16, 2025		Soil	S25-Jn0050879					X	X		X	X		X			
29	BH01_0_0.3	Jun 16, 2025		Soil	S25-Jn0050880	X													
30	BH06_0_0.1	Jun 16, 2025		Soil	S25-Jn0050881					X	X		X	X		X			
31	BH06_0_0.4	Jun 16, 2025		Soil	S25-Jn0050882	X													
32	BH03_0_0.1	Jun 16, 2025		Soil	S25-Jn0050883					X	X		X	X		X			
33	BH03_0_0.4	Jun 16, 2025		Soil	S25-Jn0050884	X													
34	QC01_20250616	Jun 16, 2025		Soil	S25-Jn0050885						X			X					
35	QC03_202506	Jun 16, 2025		Soil	S25-Jn0050886						X			X					

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Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
	16																		
36	QC01_20250616_AQ	Jun 16, 2025		Soil	S25-Jn0050887	X													
37	QC02_20250616	Jun 16, 2025		Soil	S25-Jn0050888						X			X					
38	BH13_0_0.1	Jun 17, 2025		Soil	S25-Jn0050889					X	X		X	X		X			
39	BH13_0_0.3	Jun 17, 2025		Soil	S25-Jn0050890	X													
40	BH12_0_0.1	Jun 17, 2025		Soil	S25-Jn0050891					X	X		X	X		X		X	
41	BH12_0_0.3	Jun 17, 2025		Soil	S25-Jn0050892	X													
42	BH12_FRAG	Jun 17, 2025		Building Materials	S25-Jn0050893		X												
43	BH14_0_0.1	Jun 17, 2025		Soil	S25-Jn0050894					X	X			X					
44	BH14_0_0.3	Jun 17, 2025		Soil	S25-Jn0050895	X													
45	BH15_0_0.1	Jun 17, 2025		Soil	S25-Jn0050896					X	X		X	X		X			
46	BH15_0_0.3	Jun 17, 2025		Soil	S25-Jn0050897	X													
47	BH17_0_0.1	Jun 17, 2025		Soil	S25-Jn0050898					X	X		X	X		X			
48	BH17_0_0.4	Jun 17, 2025		Soil	S25-Jn0050899	X													

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Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
49	BH20_0_0.1	Jun 17, 2025		Soil	S25-Jn0050900					X	X		X	X		X		X	
50	BH20_0_0.2	Jun 17, 2025		Soil	S25-Jn0050901	X													
51	BH19_0_0.8	Jun 17, 2025		Soil	S25-Jn0050902	X													
52	BH19_0_0.1	Jun 17, 2025		Soil	S25-Jn0050903					X	X		X	X		X			
53	BH19_FRAG	Jun 17, 2025		Building Materials	S25-Jn0050904		X												
54	BH18_0_0.1	Jun 17, 2025		Soil	S25-Jn0050905					X	X		X	X		X		X	
55	BH18_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050906					X	X			X					
56	BH18_0_0.2	Jun 17, 2025		Soil	S25-Jn0050907	X													
57	QC02_20250617	Jun 17, 2025		Soil	S25-Jn0050908						X			X					
58	QC01_20250617	Jun 17, 2025		Soil	S25-Jn0050909						X			X					
59	BH16_0_0.1	Jun 18, 2025		Soil	S25-Jn0050910					X	X		X	X		X			
60	BH16_3_3.1	Jun 18, 2025		Soil	S25-Jn0050911				X					X	X				
61	BH16_0_0.3	Jun 18, 2025		Soil	S25-Jn0050912	X													
62	BH21/MW03_	Jun 18, 2025		Soil	S25-Jn0050913					X	X		X	X		X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
	0_0.1																		
63	BH21/MW03_3_3.1	Jun 18, 2025		Soil	S25-Jn0050914					X	X			X					
64	BH21/MW03_8_8.1	Jun 18, 2025		Soil	S25-Jn0050915					X	X			X					
65	BH21/MW03_9.9_10	Jun 18, 2025		Soil	S25-Jn0050916					X	X			X					
66	BH21/MW03_0_0.3	Jun 18, 2025		Soil	S25-Jn0050917	X													
67	RINSATE	Jun 17, 2025		Water	S25-Jn0050918					X		X	X			X		X	
68	BLANK	Jun 17, 2025		Water	S25-Jn0050919													X	
69	TS	Jun 18, 2025		Trip Spike (liquid)	S25-Jn0050920														X
70	TB	Jun 18, 2025		Trip Blank (liquid)	S25-Jn0050921												X		
71	BH02/MW01_0.3_0.4	Jun 13, 2025		Soil	S25-Jn0050922			X											
72	BH02/MW01_	Jun 13, 2025		Soil	S25-Jn0050923			X											

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Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
	0.5_0.6																		
73	BH02/MW01_1_1.1	Jun 13, 2025		Soil	S25-Jn0050924			X											
74	BH02/MW01_2_2.1	Jun 13, 2025		Soil	S25-Jn0050925			X											
75	BH02/MW01_4_4.1	Jun 13, 2025		Soil	S25-Jn0050926			X											
76	BH02/MW01_5_5.1	Jun 13, 2025		Soil	S25-Jn0050927			X											
77	BH02/MW01_6_6.1	Jun 13, 2025		Soil	S25-Jn0050928			X											
78	BH02/MW01_8_8.1	Jun 13, 2025		Soil	S25-Jn0050929			X											
79	BH02/MW01_9_9.1	Jun 13, 2025		Soil	S25-Jn0050930			X											
80	BH02/MW01_0.3_0.5	Jun 13, 2025		Soil	S25-Jn0050931			X											
81	BH08_0.3_0.4	Jun 13, 2025		Soil	S25-Jn0050932			X											

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Site# 2370 & 2554

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1234275
Phone: 02 8245 0300
Fax:

Received: Jun 18, 2025 5:09 PM
Due: Jun 25, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
82	BH08_0.5_0.6	Jun 13, 2025		Soil	S25-Jn0050933			X											
83	BH08_1_1.1	Jun 13, 2025		Soil	S25-Jn0050934			X											
84	BH08_0_0.3	Jun 13, 2025		Soil	S25-Jn0050935			X											
85	BH11/MW02_0.3_0.4	Jun 13, 2025		Soil	S25-Jn0050936			X											
86	BH11/MW02_0.5_0.6	Jun 13, 2025		Soil	S25-Jn0050937			X											
87	BH11/MW02_1_1.1	Jun 13, 2025		Soil	S25-Jn0050938			X											
88	BH11/MW02_2_2.1	Jun 13, 2025		Soil	S25-Jn0050939			X											
89	BH11/MW02_4_4.1	Jun 13, 2025		Soil	S25-Jn0050940			X											
90	BH11/MW02_5_5.1	Jun 13, 2025		Soil	S25-Jn0050941			X											
91	BH11/MW02_6_6.1	Jun 13, 2025		Soil	S25-Jn0050942			X											
92	BH11/MW02_	Jun 13, 2025		Soil	S25-Jn0050943			X											

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
	7_7.1																		
93	BH11/MW02_8_8.1	Jun 13, 2025		Soil	S25-Jn0050944			X											
94	BH11/MW02_9_9.1	Jun 13, 2025		Soil	S25-Jn0050945			X											
95	BH09_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050946			X											
96	BH09_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050947			X											
97	BH09_0.9_1	Jun 16, 2025		Soil	S25-Jn0050948			X											
98	BH10_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050949			X											
99	BH10_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050950			X											
100	BH07_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050951			X											
101	BH07_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050952			X											
102	BH07_0.9_1	Jun 16, 2025		Soil	S25-Jn0050953			X											
103	BH07_0_0.4	Jun 16, 2025		Soil	S25-Jn0050954	X													
104	BH05_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050955			X											
105	BH05_0.9_1	Jun 16, 2025		Soil	S25-Jn0050956			X											

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
106	BH04_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050957			X											
107	BH04_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050958			X											
108	BH01_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050959			X											
109	BH01_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050960			X											
110	BH01_0.9_1	Jun 16, 2025		Soil	S25-Jn0050961			X											
111	BH06_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050962			X											
112	BH06_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050963			X											
113	BH03_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050964			X											
114	BH03_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050965			X											
115	BH03_0.9_1	Jun 16, 2025		Soil	S25-Jn0050966			X											
116	QC01_20250616_J	Jun 16, 2025		Soil	S25-Jn0050967			X											
117	QC02_20250616_J	Jun 16, 2025		Soil	S25-Jn0050968			X											
118	QC04_20250616_J	Jun 16, 2025		Soil	S25-Jn0050969			X											
119	QC03_202506	Jun 16, 2025		Soil	S25-Jn0050970			X											

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
119	QC03_20250616_J	Jun 16, 2025		Soil	S25-Jn0050970														
120	BH13_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050971			X											
121	BH13_0.5_0.5	Jun 17, 2025		Soil	S25-Jn0050972			X											
122	BH12_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050973			X											
123	BH12_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050974			X											
124	BH14_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050975			X											
125	BH14_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050976			X											
126	BH14_0.9_1	Jun 17, 2025		Soil	S25-Jn0050977			X											
127	BH15_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050978			X											
128	BH15_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050979			X											
129	BH15_0.9_1	Jun 17, 2025		Soil	S25-Jn0050980			X											
130	BH17_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050981			X											
131	BH17_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050982			X											
132	BH17_0.9_1	Jun 17, 2025		Soil	S25-Jn0050983			X											
133	BH20_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050984			X											

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Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
134	BH20_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050985			X											
135	BH20_0.9_1	Jun 17, 2025		Soil	S25-Jn0050986			X											
136	BH19_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050987			X											
137	BH19_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050988			X											
138	BH19_1_1.1	Jun 17, 2025		Soil	S25-Jn0050989			X											
139	BH18_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050990			X											
140	QC04_20250617_J	Jun 17, 2025		Soil	S25-Jn0050991			X											
141	QC03_20250617_J	Jun 17, 2025		Soil	S25-Jn0050992			X											
142	QC02_20250617_J	Jun 17, 2025		Soil	S25-Jn0050993			X											
143	QC01_20250617_J	Jun 17, 2025		Soil	S25-Jn0050994			X											
144	BH11/MW02_FRAG	Jun 13, 2025		Building Materials	S25-Jn0050995			X											
145	BH16_0.3_0.4	Jun 18, 2025		Soil	S25-Jn0050996			X											

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Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
146	BH16_0.5_0.6	Jun 18, 2025		Soil	S25-Jn0050997			X											
147	BH16_1_1.1	Jun 18, 2025		Soil	S25-Jn0050998			X											
148	BH16_2_2.1	Jun 18, 2025		Soil	S25-Jn0050999			X											
149	BH21/MW03_0.3_0.4	Jun 18, 2025		Soil	S25-Jn0051000			X											
150	BH21/MW03_0.5_0.6	Jun 18, 2025		Soil	S25-Jn0051001			X											
151	BH21/MW03_1_1.1	Jun 18, 2025		Soil	S25-Jn0051002			X											
152	BH21/MW03_2_2.1	Jun 18, 2025		Soil	S25-Jn0051003			X											
153	BH21/MW03_4_4.1	Jun 18, 2025		Soil	S25-Jn0051004			X											
154	BH21/MW03_5_5.1	Jun 18, 2025		Soil	S25-Jn0051005			X											
155	BH21/MW03_6_6.1	Jun 18, 2025		Soil	S25-Jn0051006			X											
156	BH21/MW03_	Jun 18, 2025		Soil	S25-Jn0051007			X											

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Fax:

Received: Jun 18, 2025 5:09 PM
Due: Jun 25, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD*	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254															X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X
	7_7.1																		
157	BH21/MW03_9_9.1	Jun 18, 2025		Soil	S25-Jn0051008			X											
158	QC01_20250618_J	Jun 18, 2025		Soil	S25-Jn0051009			X											
159	QC02_20250618_J	Jun 18, 2025		Soil	S25-Jn0051010			X											
160	BH13_0.9_1.0	Jun 18, 2025		Soil	S25-Jn0051386			X											
Test Counts						23	2	89	2	34	39	1	22	42	2	22	1	12	1

JBS & G Australia (NSW) P/L
Level 8, 179 Elizabeth St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

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NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Lauren Holmes**

Report **1234275-S**
Project name PAGEWOOD
Project ID 69149
Received Date Jun 18, 2025

Client Sample ID			[G01]**BH02/MW01_0_0.1**	**BH02/MW01_3_3.1**	[G01]**BH08_0_0.1**	**BH08_2_2.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S25-Jn0050852**	**S25-Jn0050853**	**S25-Jn0050857**	**S25-Jn0050858**
Date Sampled			**Jun 13, 2025**	**Jun 13, 2025**	**Jun 13, 2025**	**Jun 13, 2025**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	60	-
TRH C29-C36	50	mg/kg	< 50	-	73	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	133	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	-	< 50	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH >C16-C34	100	mg/kg	< 100	-	110	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	110	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	105	-	111	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			[G01]BH02/MW01_0_0.1	BH02/MW01_3_3.1	[G01]BH08_0_0.1	BH08_2_2.1
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S25-Jn0050852**	**S25-Jn0050853**	**S25-Jn0050857**	**S25-Jn0050858**
Date Sampled			**Jun 13, 2025**	**Jun 13, 2025**	**Jun 13, 2025**	**Jun 13, 2025**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	1.3	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	118	97	77	100
p-Terphenyl-d14 (surr.)	1	%	119	98	80	98
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	-	< 1	-
4.4'-DDD	0.05	mg/kg	< 0.5	-	< 0.5	-
4.4'-DDE	0.05	mg/kg	< 0.5	-	< 0.5	-
4.4'-DDT	0.05	mg/kg	< 0.5	-	< 0.5	-
a-HCH	0.05	mg/kg	< 0.5	-	< 0.5	-
Aldrin	0.05	mg/kg	< 0.5	-	< 0.5	-
b-HCH	0.05	mg/kg	< 0.5	-	< 0.5	-
d-HCH	0.05	mg/kg	< 0.5	-	< 0.5	-
Dieldrin	0.05	mg/kg	< 0.5	-	< 0.5	-
Endosulfan I	0.05	mg/kg	< 0.5	-	< 0.5	-
Endosulfan II	0.05	mg/kg	< 0.5	-	< 0.5	-
Endosulfan sulphate	0.05	mg/kg	< 0.5	-	< 0.5	-
Endrin	0.05	mg/kg	< 0.5	-	< 0.5	-
Endrin aldehyde	0.05	mg/kg	< 0.5	-	< 0.5	-
Endrin ketone	0.05	mg/kg	< 0.5	-	< 0.5	-
g-HCH (Lindane)	0.05	mg/kg	< 0.5	-	< 0.5	-
Heptachlor	0.05	mg/kg	< 0.5	-	< 0.5	-
Heptachlor epoxide	0.05	mg/kg	< 0.5	-	< 0.5	-
Hexachlorobenzene	0.05	mg/kg	< 0.5	-	< 0.5	-
Methoxychlor	0.05	mg/kg	< 0.5	-	< 0.5	-
Toxaphene	0.5	mg/kg	< 10	-	< 10	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	-	< 0.5	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	-	< 1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	103	-	INT	-
Tetrachloro-m-xylene (surr.)	1	%	110	-	75	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	-	< 1	-
Aroclor-1221	0.1	mg/kg	< 1	-	< 1	-
Aroclor-1232	0.1	mg/kg	< 1	-	< 1	-
Aroclor-1242	0.1	mg/kg	< 1	-	< 1	-
Aroclor-1248	0.1	mg/kg	< 1	-	< 1	-
Aroclor-1254	0.1	mg/kg	< 1	-	< 1	-
Aroclor-1260	0.1	mg/kg	< 1	-	< 1	-
Total PCB*	0.1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	103	-	INT	-
Tetrachloro-m-xylene (surr.)	1	%	110	-	75	-

Client Sample ID			[G01]BH02/MW01_0_0.1	BH02/MW01_3_3.1	[G01]BH08_0_0.1	BH08_2_2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050852	S25-Jn0050853	S25-Jn0050857	S25-Jn0050858
Date Sampled			Jun 13, 2025	Jun 13, 2025	Jun 13, 2025	Jun 13, 2025
Test/Reference	LOR	Unit				
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	21	-	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	6.5	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	5.6	< 2	5.8	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	34	< 5	15	< 5
Copper	5	mg/kg	27	< 5	26	< 5
Lead	5	mg/kg	150	< 5	100	< 5
Mercury	0.1	mg/kg	0.2	< 0.1	0.2	< 0.1
Nickel	5	mg/kg	9.3	< 5	7.7	< 5
Zinc	5	mg/kg	110	< 5	120	< 5
Cation Exchange Capacity						
Cation Exchange Capacity	0.5	meq/100g	8.4	-	-	-
Sample Properties						
% Moisture	1	%	8.2	5.6	12	5.4
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	< 5	-
13C4-PFBA (surr.)	1	%	80	-	102	-
13C5-PFPeA (surr.)	1	%	110	-	125	-
13C5-PFHxA (surr.)	1	%	124	-	127	-
13C4-PFHpA (surr.)	1	%	107	-	112	-
13C8-PFOA (surr.)	1	%	101	-	103	-
13C5-PFNA (surr.)	1	%	100	-	118	-
13C6-PFDA (surr.)	1	%	108	-	118	-
13C2-PFUnDA (surr.)	1	%	101	-	129	-
13C2-PFDoDA (surr.)	1	%	127	-	159	-
13C2-PFTeDA (surr.)	1	%	110	-	94	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	< 10	-

Client Sample ID			[G01]BH02/MW01_0_0.1	BH02/MW01_3_3.1	[G01]BH08_0_0.1	BH08_2_2.1
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S25-Jn0050852**	**S25-Jn0050853**	**S25-Jn0050857**	**S25-Jn0050858**
Date Sampled			**Jun 13, 2025**	**Jun 13, 2025**	**Jun 13, 2025**	**Jun 13, 2025**
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
13C8-FOSA (surr.)	1	%	87	-	102	-
D3-N-MeFOSA (surr.)	1	%	113	-	126	-
D5-N-EtFOSA (surr.)	1	%	109	-	113	-
D7-N-MeFOSE (surr.)	1	%	88	-	101	-
D9-N-EtFOSE (surr.)	1	%	72	-	83	-
D5-N-EtFOSAA (surr.)	1	%	132	-	160	-
D3-N-MeFOSAA (surr.)	1	%	89	-	79	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	< 5	-
13C3-PFBS (surr.)	1	%	133	-	132	-
18O2-PFHxS (surr.)	1	%	109	-	150	-
13C8-PFOS (surr.)	1	%	97	-	138	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	83	-	78	-
13C2-6:2 FTSA (surr.)	1	%	118	-	69	-
13C2-8:2 FTSA (surr.)	1	%	127	-	103	-
13C2-10:2 FTSA (surr.)	1	%	157	-	148	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	< 50	-

Client Sample ID			QC01_20250613	QC01_20250613_J	BH11/MW02_0_0.1	BH11/MW02_9.9_10
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S25-Jn0050861**	**S25-Jn0050862**	**S25-Jn0050864**	**S25-Jn0050866**
Date Sampled			**Jun 13, 2025**	**Jun 13, 2025**	**Jun 13, 2025**	**Jun 13, 2025**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	84	-
TRH C29-C36	50	mg/kg	< 50	-	63	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	147	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	-	< 50	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH >C16-C34	100	mg/kg	< 100	-	110	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	110	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	63	-	75	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	112	-	81	68
p-Terphenyl-d14 (surr.)	1	%	110	-	83	63
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-

Client Sample ID			QC01_20250613	QC01_20250613_J	BH11/MW02_0_0.1	BH11/MW02_9.9_10
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S25-Jn0050861**	**S25-Jn0050862**	**S25-Jn0050864**	**S25-Jn0050866**
Date Sampled			**Jun 13, 2025**	**Jun 13, 2025**	**Jun 13, 2025**	**Jun 13, 2025**
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	0.12	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	0.06	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	0.06	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	0.12	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	0.24	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	0.12	-
Dibutylchlorendate (surr.)	1	%	87	-	69	-
Tetrachloro-m-xylene (surr.)	1	%	105	-	83	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	87	-	69	-
Tetrachloro-m-xylene (surr.)	1	%	105	-	83	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	7.3	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	-	8.1	< 5
Copper	5	mg/kg	< 5	-	30	< 5
Lead	5	mg/kg	< 5	-	110	< 5
Mercury	0.1	mg/kg	< 0.1	-	0.3	< 0.1
Nickel	5	mg/kg	< 5	-	< 5	< 5
Zinc	5	mg/kg	< 5	-	110	< 5
Sample Properties						
% Moisture	1	%	6.0	5.0	10	17

Client Sample ID			QC01_20250613	QC01_20250613_J	BH11/MW02_0_0.1	BH11/MW02_9.9_10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050861	S25-Jn0050862	S25-Jn0050864	S25-Jn0050866
Date Sampled			Jun 13, 2025	Jun 13, 2025	Jun 13, 2025	Jun 13, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	< 5	-
13C4-PFBA (surr.)	1	%	-	99	90	-
13C5-PFPeA (surr.)	1	%	-	117	107	-
13C5-PFHxA (surr.)	1	%	-	125	118	-
13C4-PFHpA (surr.)	1	%	-	118	128	-
13C8-PFOA (surr.)	1	%	-	116	105	-
13C5-PFNA (surr.)	1	%	-	94	95	-
13C6-PFDA (surr.)	1	%	-	104	89	-
13C2-PFUnDA (surr.)	1	%	-	102	90	-
13C2-PFDoDA (surr.)	1	%	-	162	131	-
13C2-PFTeDA (surr.)	1	%	-	133	80	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	< 10	-
13C8-FOSA (surr.)	1	%	-	80	78	-
D3-N-MeFOSA (surr.)	1	%	-	102	102	-
D5-N-EtFOSA (surr.)	1	%	-	115	132	-
D7-N-MeFOSE (surr.)	1	%	-	111	90	-
D9-N-EtFOSE (surr.)	1	%	-	82	77	-
D5-N-EtFOSAA (surr.)	1	%	-	117	99	-
D3-N-MeFOSAA (surr.)	1	%	-	98	63	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	< 5	-

Client Sample ID			QC01_20250613	QC01_20250613_J	BH11/MW02_0_0.1	BH11/MW02_9.9_10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050861	S25-Jn0050862	S25-Jn0050864	S25-Jn0050866
Date Sampled			Jun 13, 2025	Jun 13, 2025	Jun 13, 2025	Jun 13, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	-	127	115	-
18O2-PFHxS (surr.)	1	%	-	111	119	-
13C8-PFOS (surr.)	1	%	-	129	113	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	133	77	-
13C2-6:2 FTSA (surr.)	1	%	-	81	88	-
13C2-8:2 FTSA (surr.)	1	%	-	91	67	-
13C2-10:2 FTSA (surr.)	1	%	-	164	107	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	< 50	-

Client Sample ID			BH09_0_0.1	BH10_0_0.1	[G01]BH07_0_0.1	[G01]BH05_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050869	S25-Jn0050871	S25-Jn0050873	S25-Jn0050874
Date Sampled			Jun 16, 2025	Jun 16, 2025	Jun 16, 2025	Jun 16, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	57	65	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	57	65	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			BH09_0_0.1	BH10_0_0.1	[G01]BH07_0_0.1	[G01]BH05_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050869	S25-Jn0050871	S25-Jn0050873	S25-Jn0050874
Date Sampled			Jun 16, 2025	Jun 16, 2025	Jun 16, 2025	Jun 16, 2025
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	100	76	87	82
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.3
2-Fluorobiphenyl (surr.)	1	%	104	90	72	89
p-Terphenyl-d14 (surr.)	1	%	105	87	65	71
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 10	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5

Client Sample ID			BH09_0_0.1	BH10_0_0.1	[G01]BH07_0_0.1	[G01]BH05_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050869	S25-Jn0050871	S25-Jn0050873	S25-Jn0050874
Date Sampled			Jun 16, 2025	Jun 16, 2025	Jun 16, 2025	Jun 16, 2025
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	77	74	INT	53
Tetrachloro-m-xylene (surr.)	1	%	105	90	68	109
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	77	74	INT	53
Tetrachloro-m-xylene (surr.)	1	%	105	90	68	109
Heavy Metals						
Arsenic	2	mg/kg	3.2	3.9	3.1	3.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	13	14	8.0
Copper	5	mg/kg	6.6	23	7.3	18
Lead	5	mg/kg	28	75	34	180
Mercury	0.1	mg/kg	< 0.1	0.2	0.1	0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	35	90	15	130
Sample Properties						
% Moisture	1	%	6.8	12	7.0	9.6
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	97	-
13C5-PFPeA (surr.)	1	%	-	-	108	-
13C5-PFHxA (surr.)	1	%	-	-	131	-
13C4-PFHpA (surr.)	1	%	-	-	117	-
13C8-PFOA (surr.)	1	%	-	-	106	-
13C5-PFNA (surr.)	1	%	-	-	133	-
13C6-PFDA (surr.)	1	%	-	-	110	-
13C2-PFUnDA (surr.)	1	%	-	-	120	-
13C2-PFDoDA (surr.)	1	%	-	-	145	-
13C2-PFTeDA (surr.)	1	%	-	-	131	-

Client Sample ID			BH09_0_0.1	BH10_0_0.1	[G01]BH07_0_0.1	[G01]BH05_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050869	S25-Jn0050871	S25-Jn0050873	S25-Jn0050874
Date Sampled			Jun 16, 2025	Jun 16, 2025	Jun 16, 2025	Jun 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	88	-
D3-N-MeFOSA (surr.)	1	%	-	-	128	-
D5-N-EtFOSA (surr.)	1	%	-	-	103	-
D7-N-MeFOSE (surr.)	1	%	-	-	81	-
D9-N-EtFOSE (surr.)	1	%	-	-	66	-
D5-N-EtFOSAA (surr.)	1	%	-	-	136	-
D3-N-MeFOSAA (surr.)	1	%	-	-	73	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	122	-
18O2-PFHxS (surr.)	1	%	-	-	112	-
13C8-PFOS (surr.)	1	%	-	-	119	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	106	-
13C2-6:2 FTSA (surr.)	1	%	-	-	116	-
13C2-8:2 FTSA (surr.)	1	%	-	-	160	-
13C2-10:2 FTSA (surr.)	1	%	-	-	157	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-

Client Sample ID			[G01]BH05_0.3_0.4	BH04_0_0.1	[G01]BH01_0_0.1	BH06_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050875	S25-Jn0050877	S25-Jn0050879	S25-Jn0050881
Date Sampled			Jun 16, 2025	Jun 16, 2025	Jun 16, 2025	Jun 16, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	130	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	130	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	260	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C16-C34	100	mg/kg	< 100	< 100	230	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	230	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	116	87	112	115
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	2.2	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	2.5	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	2.7	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	1.4	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	1.7	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	1.4	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	1.6	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	1.2	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	1.8	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	3.6	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	2.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	3.4	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	20	< 0.5
2-Fluorobiphenyl (surr.)	1	%	86	68	92	70
p-Terphenyl-d14 (surr.)	1	%	79	63	102	64
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05

Client Sample ID			[G01]BH05_0.3_0.4	BH04_0_0.1	[G01]BH01_0_0.1	BH06_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050875	S25-Jn0050877	S25-Jn0050879	S25-Jn0050881
Date Sampled			Jun 16, 2025	Jun 16, 2025	Jun 16, 2025	Jun 16, 2025
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Aldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
b-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
d-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Dieldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Endosulfan I	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Endosulfan II	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Endrin	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Endrin ketone	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Heptachlor	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Methoxychlor	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Toxaphene	0.5	mg/kg	< 10	< 0.5	< 10	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Dibutylchlorendate (surr.)	1	%	97	INT	70	65
Tetrachloro-m-xylene (surr.)	1	%	89	68	100	69
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Aroclor-1221	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Aroclor-1232	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Aroclor-1242	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Aroclor-1248	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Aroclor-1254	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Aroclor-1260	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Total PCB*	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Dibutylchlorendate (surr.)	1	%	97	INT	70	65
Tetrachloro-m-xylene (surr.)	1	%	89	68	100	69
Heavy Metals						
Arsenic	2	mg/kg	5.8	5.2	9.1	14
Cadmium	0.4	mg/kg	< 0.4	0.4	0.7	< 0.4
Chromium	5	mg/kg	12	23	140	14
Copper	5	mg/kg	18	53	37	53
Lead	5	mg/kg	89	350	540	170
Mercury	0.1	mg/kg	< 0.1	0.4	1.1	0.3
Nickel	5	mg/kg	5.7	6.9	6.3	8.6
Zinc	5	mg/kg	120	290	290	150
Sample Properties						
% Moisture	1	%	7.8	15	17	15

Client Sample ID			[G01]BH03_0_0.1	QC02_20250616	[G01]BH13_0_0.1	BH12_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050883	S25-Jn0050888	S25-Jn0050889	S25-Jn0050891
Date Sampled			Jun 16, 2025	Jun 16, 2025	Jun 17, 2025	Jun 17, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	48	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	220	< 50	120	< 50
TRH C29-C36	50	mg/kg	230	62	110	< 50
TRH C10-C36 (Total)	50	mg/kg	498	62	230	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	56	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	56	< 50	< 50	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C16-C34	100	mg/kg	380	< 100	180	< 100
TRH >C34-C40	100	mg/kg	120	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	556	< 100	180	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	88	117	109	103
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	0.6	2.1	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.9	2.3	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	2.6	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	0.8	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.5	1.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.5	1.6	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	1.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	1.4	< 0.5	< 0.5
Chrysene	0.5	mg/kg	0.6	1.6	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.9	4.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	0.8	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	2.9	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.8	3.9	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	3.3	21	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	117	129	85	90
p-Terphenyl-d14 (surr.)	1	%	130	126	92	89
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05

Client Sample ID			[G01]BH03_0_0.1	QC02_20250616	[G01]BH13_0_0.1	BH12_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050883	S25-Jn0050888	S25-Jn0050889	S25-Jn0050891
Date Sampled			Jun 16, 2025	Jun 16, 2025	Jun 17, 2025	Jun 17, 2025
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Aldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
b-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
d-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Dieldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Endosulfan I	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Endosulfan II	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Endrin	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Endrin ketone	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Heptachlor	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Methoxychlor	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Toxaphene	0.5	mg/kg	< 10	< 0.5	< 10	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Dibutylchlorendate (surr.)	1	%	63	98	97	67
Tetrachloro-m-xylene (surr.)	1	%	114	120	79	93
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Aroclor-1221	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Aroclor-1232	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Aroclor-1242	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Aroclor-1248	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Aroclor-1254	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Aroclor-1260	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Total PCB*	0.1	mg/kg	< 1	< 0.1	< 1	< 0.1
Dibutylchlorendate (surr.)	1	%	63	98	97	67
Tetrachloro-m-xylene (surr.)	1	%	114	120	79	93
Heavy Metals						
Arsenic	2	mg/kg	16	5.6	3.9	7.5
Cadmium	0.4	mg/kg	0.7	< 0.4	< 0.4	0.4
Chromium	5	mg/kg	550	13	6.0	8.6
Copper	5	mg/kg	43	33	18	21
Lead	5	mg/kg	1200	140	110	81
Mercury	0.1	mg/kg	6.9	0.2	< 0.1	0.1
Nickel	5	mg/kg	5.4	8.5	< 5	5.7
Zinc	5	mg/kg	160	160	56	160
Sample Properties						
% Moisture	1	%	22	21	3.4	11

Client Sample ID			[G01]BH03_0_0.1	QC02_20250616	[G01]BH13_0_0.1	BH12_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050883	S25-Jn0050888	S25-Jn0050889	S25-Jn0050891
Date Sampled			Jun 16, 2025	Jun 16, 2025	Jun 17, 2025	Jun 17, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	89
13C5-PFPeA (surr.)	1	%	-	-	-	107
13C5-PFHxA (surr.)	1	%	-	-	-	110
13C4-PFHpA (surr.)	1	%	-	-	-	102
13C8-PFOA (surr.)	1	%	-	-	-	90
13C5-PFNA (surr.)	1	%	-	-	-	144
13C6-PFDA (surr.)	1	%	-	-	-	92
13C2-PFUnDA (surr.)	1	%	-	-	-	130
13C2-PFDoDA (surr.)	1	%	-	-	-	127
13C2-PFTeDA (surr.)	1	%	-	-	-	120
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	96
D3-N-MeFOSA (surr.)	1	%	-	-	-	123
D5-N-EtFOSA (surr.)	1	%	-	-	-	105
D7-N-MeFOSE (surr.)	1	%	-	-	-	98
D9-N-EtFOSE (surr.)	1	%	-	-	-	100
D5-N-EtFOSAA (surr.)	1	%	-	-	-	123
D3-N-MeFOSAA (surr.)	1	%	-	-	-	72
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5

Client Sample ID			[G01]BH03_0_0.1	QC02_20250616	[G01]BH13_0_0.1	BH12_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050883	S25-Jn0050888	S25-Jn0050889	S25-Jn0050891
Date Sampled			Jun 16, 2025	Jun 16, 2025	Jun 17, 2025	Jun 17, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	-	-	-	133
18O2-PFHxS (surr.)	1	%	-	-	-	122
13C8-PFOS (surr.)	1	%	-	-	-	119
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	75
13C2-6:2 FTSA (surr.)	1	%	-	-	-	80
13C2-8:2 FTSA (surr.)	1	%	-	-	-	22
13C2-10:2 FTSA (surr.)	1	%	-	-	-	85
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

Client Sample ID			BH14_0_0.1	BH15_0_0.1	BH17_0_0.1	BH20_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050894	S25-Jn0050896	S25-Jn0050898	S25-Jn0050900
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 17, 2025	Jun 17, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	35	43	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	230	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	170	< 50	65
TRH C10-C36 (Total)	50	mg/kg	< 50	443	< 50	65
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	85
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	85
TRH >C10-C16	50	mg/kg	< 50	60	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	60	< 50	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C16-C34	100	mg/kg	< 100	330	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	390	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			BH14_0_0.1	BH15_0_0.1	BH17_0_0.1	BH20_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050894	S25-Jn0050896	S25-Jn0050898	S25-Jn0050900
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 17, 2025	Jun 17, 2025
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	67	78	79	128
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	92	82	80	78
p-Terphenyl-d14 (surr.)	1	%	89	82	82	67
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BH14_0_0.1	BH15_0_0.1	BH17_0_0.1	BH20_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050894	S25-Jn0050896	S25-Jn0050898	S25-Jn0050900
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 17, 2025	Jun 17, 2025
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	83	INT	74	70
Tetrachloro-m-xylene (surr.)	1	%	83	100	77	73
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	83	INT	74	70
Tetrachloro-m-xylene (surr.)	1	%	83	100	77	73
Heavy Metals						
Arsenic	2	mg/kg	12	6.6	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	0.5	< 0.4	< 0.4
Chromium	5	mg/kg	5.3	15	5.2	< 5
Copper	5	mg/kg	9.5	22	19	15
Lead	5	mg/kg	29	81	45	32
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	0.1
Nickel	5	mg/kg	< 5	12	< 5	< 5
Zinc	5	mg/kg	32	170	29	20
Sample Properties						
% Moisture	1	%	6.8	9.3	13	8.5
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	89
13C5-PFPeA (surr.)	1	%	-	-	-	111
13C5-PFHxA (surr.)	1	%	-	-	-	114
13C4-PFHpA (surr.)	1	%	-	-	-	108
13C8-PFOA (surr.)	1	%	-	-	-	104
13C5-PFNA (surr.)	1	%	-	-	-	94
13C6-PFDA (surr.)	1	%	-	-	-	100
13C2-PFUnDA (surr.)	1	%	-	-	-	101
13C2-PFDoDA (surr.)	1	%	-	-	-	135
13C2-PFTeDA (surr.)	1	%	-	-	-	104

Client Sample ID			BH14_0_0.1	BH15_0_0.1	BH17_0_0.1	BH20_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050894	S25-Jn0050896	S25-Jn0050898	S25-Jn0050900
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 17, 2025	Jun 17, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	94
D3-N-MeFOSA (surr.)	1	%	-	-	-	107
D5-N-EtFOSA (surr.)	1	%	-	-	-	109
D7-N-MeFOSE (surr.)	1	%	-	-	-	84
D9-N-EtFOSE (surr.)	1	%	-	-	-	98
D5-N-EtFOSAA (surr.)	1	%	-	-	-	144
D3-N-MeFOSAA (surr.)	1	%	-	-	-	86
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	124
18O2-PFHxS (surr.)	1	%	-	-	-	130
13C8-PFOS (surr.)	1	%	-	-	-	108
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	69
13C2-6:2 FTSA (surr.)	1	%	-	-	-	101
13C2-8:2 FTSA (surr.)	1	%	-	-	-	76
13C2-10:2 FTSA (surr.)	1	%	-	-	-	106
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

Client Sample ID			[G01]BH19_0_0.1	BH18_0_0.1	BH18_0.3_0.4	BH16_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050903	S25-Jn0050905	S25-Jn0050906	S25-Jn0050910
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 17, 2025	Jun 18, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	55	< 20	-	< 20
TRH C15-C28	50	mg/kg	85	< 50	-	< 50
TRH C29-C36	50	mg/kg	88	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	228	< 50	-	< 50
TRH C6-C10	20	mg/kg	28	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	28	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	< 50	-	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH >C16-C34	100	mg/kg	140	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	140	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	76	148	-	93
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	76	82	84	113
p-Terphenyl-d14 (surr.)	1	%	83	83	84	120
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05

Client Sample ID			[G01]BH19_0_0.1	BH18_0_0.1	BH18_0.3_0.4	BH16_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050903	S25-Jn0050905	S25-Jn0050906	S25-Jn0050910
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 17, 2025	Jun 18, 2025
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 10	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	57	77	-	94
Tetrachloro-m-xylene (surr.)	1	%	79	76	-	105
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 1	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 1	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 1	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 1	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 1	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 1	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	< 1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	57	77	-	94
Tetrachloro-m-xylene (surr.)	1	%	79	76	-	105
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	< 10	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	6.4	-
Heavy Metals						
Arsenic	2	mg/kg	2.5	3.1	< 2	6.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.8	< 5	< 5	6.5
Copper	5	mg/kg	36	82	< 5	31
Lead	5	mg/kg	68	32	< 5	130
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	0.3
Nickel	5	mg/kg	< 5	< 5	< 5	5.2
Zinc	5	mg/kg	36	160	13	120
Cation Exchange Capacity						
Cation Exchange Capacity	0.5	meq/100g	-	-	0.7	-
Sample Properties						
% Moisture	1	%	16	25	6.5	9.5

Client Sample ID			[G01]BH19_0_0.1	BH18_0_0.1	BH18_0.3_0.4	BH16_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050903	S25-Jn0050905	S25-Jn0050906	S25-Jn0050910
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 17, 2025	Jun 18, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	-	-
13C4-PFBA (surr.)	1	%	87	89	-	-
13C5-PFPeA (surr.)	1	%	106	98	-	-
13C5-PFHxA (surr.)	1	%	105	124	-	-
13C4-PFHpA (surr.)	1	%	103	104	-	-
13C8-PFOA (surr.)	1	%	94	84	-	-
13C5-PFNA (surr.)	1	%	90	90	-	-
13C6-PFDA (surr.)	1	%	90	82	-	-
13C2-PFUnDA (surr.)	1	%	99	97	-	-
13C2-PFDoDA (surr.)	1	%	122	136	-	-
13C2-PFTeDA (surr.)	1	%	110	118	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	-	-
13C8-FOSA (surr.)	1	%	84	86	-	-
D3-N-MeFOSA (surr.)	1	%	104	115	-	-
D5-N-EtFOSA (surr.)	1	%	94	128	-	-
D7-N-MeFOSE (surr.)	1	%	85	98	-	-
D9-N-EtFOSE (surr.)	1	%	84	92	-	-
D5-N-EtFOSAA (surr.)	1	%	106	117	-	-
D3-N-MeFOSAA (surr.)	1	%	101	117	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	-	-
13C3-PFBS (surr.)	1	%	92	102	-	-

Client Sample ID			[G01]BH19_0_0.1	BH18_0_0.1	BH18_0.3_0.4	BH16_0_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050903	S25-Jn0050905	S25-Jn0050906	S25-Jn0050910
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 17, 2025	Jun 18, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
18O2-PFHxS (surr.)	1	%	97	95	-	-
13C8-PFOS (surr.)	1	%	90	113	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	68	69	-	-
13C2-6:2 FTSA (surr.)	1	%	87	84	-	-
13C2-8:2 FTSA (surr.)	1	%	85	57	-	-
13C2-10:2 FTSA (surr.)	1	%	141	102	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	-	-

Client Sample ID			BH21/MW03_0_0.1	BH08_0.3_0.4	BH04_0.3_0.4	BH06_0.3_0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050913	S25-Jn0050932	S25-Jn0050957	S25-Jn0050962
Date Sampled			Jun 18, 2025	Jun 13, 2025	Jun 16, 2025	Jun 16, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	-	-	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	88	-	-	-

Client Sample ID			BH21/MW03_0_0.1	BH08_0.3_0.4	BH04_0.3_0.4	BH06_0.3_0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050913	S25-Jn0050932	S25-Jn0050957	S25-Jn0050962
Date Sampled			Jun 18, 2025	Jun 13, 2025	Jun 16, 2025	Jun 16, 2025
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	79	81	88	89
p-Terphenyl-d14 (surr.)	1	%	74	83	88	94
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	50	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	80	-	-	-

Client Sample ID			BH21/MW03_0_0.1	BH08_0.3_0.4	BH04_0.3_0.4	BH06_0.3_0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050913	S25-Jn0050932	S25-Jn0050957	S25-Jn0050962
Date Sampled			Jun 18, 2025	Jun 13, 2025	Jun 16, 2025	Jun 16, 2025
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	50	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	80	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	2.9	2.3	< 2	4.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	21	7.3	< 5
Copper	5	mg/kg	31	5.0	10	6.3
Lead	5	mg/kg	51	77	54	58
Mercury	0.1	mg/kg	< 0.1	0.3	0.1	< 0.1
Nickel	5	mg/kg	29	< 5	< 5	< 5
Zinc	5	mg/kg	65	40	52	70
Sample Properties						
% Moisture	1	%	16	5.6	12	5.5
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	95	-	-	-
13C5-PFPeA (surr.)	1	%	109	-	-	-
13C5-PFHxA (surr.)	1	%	115	-	-	-
13C4-PFHpA (surr.)	1	%	102	-	-	-
13C8-PFOA (surr.)	1	%	96	-	-	-
13C5-PFNA (surr.)	1	%	97	-	-	-
13C6-PFDA (surr.)	1	%	91	-	-	-
13C2-PFUnDA (surr.)	1	%	94	-	-	-
13C2-PFDoDA (surr.)	1	%	132	-	-	-
13C2-PFTeDA (surr.)	1	%	125	-	-	-

Client Sample ID			BH21/MW03_0_0.1	BH08_0.3_0.4	BH04_0.3_0.4	BH06_0.3_0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050913	S25-Jn0050932	S25-Jn0050957	S25-Jn0050962
Date Sampled			Jun 18, 2025	Jun 13, 2025	Jun 16, 2025	Jun 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	90	-	-	-
D3-N-MeFOSA (surr.)	1	%	140	-	-	-
D5-N-EtFOSA (surr.)	1	%	108	-	-	-
D7-N-MeFOSE (surr.)	1	%	110	-	-	-
D9-N-EtFOSE (surr.)	1	%	89	-	-	-
D5-N-EtFOSAA (surr.)	1	%	129	-	-	-
D3-N-MeFOSAA (surr.)	1	%	87	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	127	-	-	-
18O2-PFHxS (surr.)	1	%	114	-	-	-
13C8-PFOS (surr.)	1	%	104	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	68	-	-	-
13C2-6:2 FTSA (surr.)	1	%	64	-	-	-
13C2-8:2 FTSA (surr.)	1	%	100	-	-	-
13C2-10:2 FTSA (surr.)	1	%	129	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-

Client Sample ID			BH12_0.3_0.4	BH15_0.3_0.4	BH19_0.5_0.6	BH21/MW03_1_1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050973	S25-Jn0050978	S25-Jn0050988	S25-Jn0051002
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 17, 2025	Jun 18, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	-	-	-	< 50
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	72
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	93	93	90	101
p-Terphenyl-d14 (surr.)	1	%	93	99	89	103
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Jn0050973	S25-Jn0050978	S25-Jn0050988	S25-Jn0051002
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 17, 2025	Jun 18, 2025
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	110
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	100
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	110
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	100
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	< 5	< 5	5.4	< 5
Lead	5	mg/kg	< 5	< 5	17	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	8.5	< 5	18	< 5
Sample Properties						
% Moisture	1	%	7.2	3.3	3.8	4.0

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jun 25, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 25, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jun 25, 2025	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 25, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jun 25, 2025	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Jun 25, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organochlorine Pesticides	Sydney	Jun 25, 2025	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Jun 25, 2025	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Melbourne	Jun 26, 2025	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Jun 27, 2025	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
pH (1:5 Aqueous extract at 25 °C as rec.)	Sydney	Jun 25, 2025	7 Days
- Method: LTM-GEN-7090 pH by ISE			
% Moisture	Sydney	Jun 23, 2025	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Sydney	Jun 25, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Sydney	Jun 25, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Sydney	Jun 25, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Sydney	Jun 25, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Eurofins Environment Testing Australia Pty Ltd
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Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1234275
Phone: 02 8245 0300
Fax:

Received: Jun 18, 2025 5:09 PM
Due: Jun 25, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD*	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	BH02/MW01_0_0.1	Jun 13, 2025		Soil	S25-Jn0050852				X				X	X	X	X			X	
2	BH02/MW01_3_3.1	Jun 13, 2025		Soil	S25-Jn0050853					X	X			X						
3	BH02/MW01_7_7.1	Jun 13, 2025		Soil	S25-Jn0050854			X												
4	BH02/MW01_9.9_10	Jun 13, 2025		Soil	S25-Jn0050855			X												
5	BH02/MW01_0_0.3	Jun 13, 2025		Soil	S25-Jn0050856	X														
6	BH08_0_0.1	Jun 13, 2025		Soil	S25-Jn0050857								X	X		X			X	
7	BH08_2_2.1	Jun 13, 2025		Soil	S25-Jn0050858					X	X			X						
8	BH08_2.9_3	Jun 13, 2025		Soil	S25-Jn0050859			X												
9	BH08_0.3_0.5	Jun 13, 2025		Soil	S25-Jn0050860	X														
10	QC01_202506	Jun 13, 2025		Soil	S25-Jn0050861								X	X		X				

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

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NSW 2000

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Project ID: 69149

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	13																			
11	QC01_20250613_J	Jun 13, 2025		Soil	S25-Jn0050862									X					X	
12	QC01_20250613_AQ	Jun 13, 2025		Soil	S25-Jn0050863	X														
13	BH11/MW02_0_0.1	Jun 13, 2025		Soil	S25-Jn0050864					X	X		X	X			X		X	
14	BH11/MW02_3_3.1	Jun 13, 2025		Soil	S25-Jn0050865			X												
15	BH11/MW02_9.9_10	Jun 13, 2025		Soil	S25-Jn0050866					X	X			X						
16	BH11/MW02_0_0.3	Jun 13, 2025		Soil	S25-Jn0050867	X														
17	QC02_20250613_J	Jun 13, 2025		Soil	S25-Jn0050868			X												
18	BH09_0_0.1	Jun 16, 2025		Soil	S25-Jn0050869					X	X		X	X			X			
19	BH09_0_0.3	Jun 16, 2025		Soil	S25-Jn0050870	X														
20	BH10_0_0.1	Jun 16, 2025		Soil	S25-Jn0050871					X	X		X	X			X			

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
21	BH10_0_0.3	Jun 16, 2025		Soil	S25-Jn0050872	X														
22	BH07_0_0.1	Jun 16, 2025		Soil	S25-Jn0050873					X	X		X	X			X		X	
23	BH05_0_0.1	Jun 16, 2025		Soil	S25-Jn0050874					X	X		X	X			X			
24	BH05_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050875					X	X		X	X			X			
25	BH05_0_0.5	Jun 16, 2025		Soil	S25-Jn0050876	X														
26	BH04_0_0.1	Jun 16, 2025		Soil	S25-Jn0050877					X	X		X	X			X			
27	BH04_0_0.4	Jun 16, 2025		Soil	S25-Jn0050878	X														
28	BH01_0_0.1	Jun 16, 2025		Soil	S25-Jn0050879					X	X		X	X			X			
29	BH01_0_0.3	Jun 16, 2025		Soil	S25-Jn0050880	X														
30	BH06_0_0.1	Jun 16, 2025		Soil	S25-Jn0050881					X	X		X	X			X			
31	BH06_0_0.4	Jun 16, 2025		Soil	S25-Jn0050882	X														
32	BH03_0_0.1	Jun 16, 2025		Soil	S25-Jn0050883					X	X		X	X			X			
33	BH03_0_0.4	Jun 16, 2025		Soil	S25-Jn0050884	X														
34	QC01_20250616	Jun 16, 2025		Soil	S25-Jn0050885			X												
35	QC03_202506	Jun 16, 2025		Soil	S25-Jn0050886			X												

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	16																			
36	QC01_20250616_AQ	Jun 16, 2025		Soil	S25-Jn0050887	X														
37	QC02_20250616	Jun 16, 2025		Soil	S25-Jn0050888								X	X		X				
38	BH13_0_0.1	Jun 17, 2025		Soil	S25-Jn0050889					X	X		X	X			X			
39	BH13_0_0.3	Jun 17, 2025		Soil	S25-Jn0050890	X														
40	BH12_0_0.1	Jun 17, 2025		Soil	S25-Jn0050891					X	X		X	X			X		X	
41	BH12_0_0.3	Jun 17, 2025		Soil	S25-Jn0050892	X														
42	BH12_FRAG	Jun 17, 2025		Building Materials	S25-Jn0050893		X													
43	BH14_0_0.1	Jun 17, 2025		Soil	S25-Jn0050894								X	X		X				
44	BH14_0_0.3	Jun 17, 2025		Soil	S25-Jn0050895	X														
45	BH15_0_0.1	Jun 17, 2025		Soil	S25-Jn0050896					X	X		X	X			X			
46	BH15_0_0.3	Jun 17, 2025		Soil	S25-Jn0050897	X														
47	BH17_0_0.1	Jun 17, 2025		Soil	S25-Jn0050898					X	X		X	X			X			
48	BH17_0_0.4	Jun 17, 2025		Soil	S25-Jn0050899	X														

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
49	BH20_0_0.1	Jun 17, 2025		Soil	S25-Jn0050900					X	X		X	X			X		X	
50	BH20_0_0.2	Jun 17, 2025		Soil	S25-Jn0050901	X														
51	BH19_0_0.8	Jun 17, 2025		Soil	S25-Jn0050902	X														
52	BH19_0_0.1	Jun 17, 2025		Soil	S25-Jn0050903								X	X		X			X	
53	BH19_FRAG	Jun 17, 2025		Building Materials	S25-Jn0050904		X													
54	BH18_0_0.1	Jun 17, 2025		Soil	S25-Jn0050905					X	X		X	X			X		X	
55	BH18_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050906				X	X	X			X	X					
56	BH18_0_0.2	Jun 17, 2025		Soil	S25-Jn0050907	X														
57	QC02_20250617	Jun 17, 2025		Soil	S25-Jn0050908			X												
58	QC01_20250617	Jun 17, 2025		Soil	S25-Jn0050909			X												
59	BH16_0_0.1	Jun 18, 2025		Soil	S25-Jn0050910					X	X		X	X			X			
60	BH16_3_3.1	Jun 18, 2025		Soil	S25-Jn0050911			X												
61	BH16_0_0.3	Jun 18, 2025		Soil	S25-Jn0050912	X														
62	BH21/MW03_	Jun 18, 2025		Soil	S25-Jn0050913					X	X		X	X			X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	0_0.1																			
63	BH21/MW03_3_3.1	Jun 18, 2025		Soil	S25-Jn0050914			X												
64	BH21/MW03_8_8.1	Jun 18, 2025		Soil	S25-Jn0050915			X												
65	BH21/MW03_9.9_10	Jun 18, 2025		Soil	S25-Jn0050916			X												
66	BH21/MW03_0_0.3	Jun 18, 2025		Soil	S25-Jn0050917	X														
67	RINSATE	Jun 17, 2025		Water	S25-Jn0050918					X		X	X				X		X	
68	BLANK	Jun 17, 2025		Water	S25-Jn0050919														X	
69	TS	Jun 18, 2025		Trip Spike (liquid)	S25-Jn0050920															X
70	TB	Jun 18, 2025		Trip Blank (liquid)	S25-Jn0050921													X		
71	BH02/MW01_0.3_0.4	Jun 13, 2025		Soil	S25-Jn0050922			X												
72	BH02/MW01_	Jun 13, 2025		Soil	S25-Jn0050923			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	0.5_0.6																			
73	BH02/MW01_1_1.1	Jun 13, 2025		Soil	S25-Jn0050924			X												
74	BH02/MW01_2_2.1	Jun 13, 2025		Soil	S25-Jn0050925			X												
75	BH02/MW01_4_4.1	Jun 13, 2025		Soil	S25-Jn0050926			X												
76	BH02/MW01_5_5.1	Jun 13, 2025		Soil	S25-Jn0050927			X												
77	BH02/MW01_6_6.1	Jun 13, 2025		Soil	S25-Jn0050928			X												
78	BH02/MW01_8_8.1	Jun 13, 2025		Soil	S25-Jn0050929			X												
79	BH02/MW01_9_9.1	Jun 13, 2025		Soil	S25-Jn0050930			X												
80	BH02/MW01_0.3_0.5	Jun 13, 2025		Soil	S25-Jn0050931	X														
81	BH08_0.3_0.4	Jun 13, 2025		Soil	S25-Jn0050932					X	X			X						

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
82	BH08_0.5_0.6	Jun 13, 2025		Soil	S25-Jn0050933			X												
83	BH08_1_1.1	Jun 13, 2025		Soil	S25-Jn0050934			X												
84	BH08_0_0.3	Jun 13, 2025		Soil	S25-Jn0050935	X														
85	BH11/MW02_0.3_0.4	Jun 13, 2025		Soil	S25-Jn0050936			X												
86	BH11/MW02_0.5_0.6	Jun 13, 2025		Soil	S25-Jn0050937			X												
87	BH11/MW02_1_1.1	Jun 13, 2025		Soil	S25-Jn0050938			X												
88	BH11/MW02_2_2.1	Jun 13, 2025		Soil	S25-Jn0050939			X												
89	BH11/MW02_4_4.1	Jun 13, 2025		Soil	S25-Jn0050940			X												
90	BH11/MW02_5_5.1	Jun 13, 2025		Soil	S25-Jn0050941			X												
91	BH11/MW02_6_6.1	Jun 13, 2025		Soil	S25-Jn0050942			X												
92	BH11/MW02_	Jun 13, 2025		Soil	S25-Jn0050943			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	7_7.1																			
93	BH11/MW02_8_8.1	Jun 13, 2025		Soil	S25-Jn0050944			X												
94	BH11/MW02_9_9.1	Jun 13, 2025		Soil	S25-Jn0050945			X												
95	BH09_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050946			X												
96	BH09_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050947			X												
97	BH09_0.9_1	Jun 16, 2025		Soil	S25-Jn0050948			X												
98	BH10_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050949			X												
99	BH10_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050950			X												
100	BH07_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050951			X												
101	BH07_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050952			X												
102	BH07_0.9_1	Jun 16, 2025		Soil	S25-Jn0050953			X												
103	BH07_0_0.4	Jun 16, 2025		Soil	S25-Jn0050954	X														
104	BH05_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050955			X												
105	BH05_0.9_1	Jun 16, 2025		Soil	S25-Jn0050956			X												

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Phone: 02 8245 0300
Fax:

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Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
106	BH04_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050957					X	X			X						
107	BH04_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050958			X												
108	BH01_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050959			X												
109	BH01_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050960			X												
110	BH01_0.9_1	Jun 16, 2025		Soil	S25-Jn0050961			X												
111	BH06_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050962					X	X			X						
112	BH06_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050963			X												
113	BH03_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050964			X												
114	BH03_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050965			X												
115	BH03_0.9_1	Jun 16, 2025		Soil	S25-Jn0050966			X												
116	QC01_20250616_J	Jun 16, 2025		Soil	S25-Jn0050967			X												
117	QC02_20250616_J	Jun 16, 2025		Soil	S25-Jn0050968			X												
118	QC04_20250616_J	Jun 16, 2025		Soil	S25-Jn0050969			X												
119	QC03_202506	Jun 16, 2025		Soil	S25-Jn0050970			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
119	QC03_20250616_J	Jun 16, 2025		Soil	S25-Jn0050970															
120	BH13_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050971			X												
121	BH13_0.5_0.5	Jun 17, 2025		Soil	S25-Jn0050972			X												
122	BH12_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050973					X	X			X						
123	BH12_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050974			X												
124	BH14_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050975			X												
125	BH14_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050976			X												
126	BH14_0.9_1	Jun 17, 2025		Soil	S25-Jn0050977			X												
127	BH15_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050978					X	X			X						
128	BH15_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050979			X												
129	BH15_0.9_1	Jun 17, 2025		Soil	S25-Jn0050980			X												
130	BH17_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050981			X												
131	BH17_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050982			X												
132	BH17_0.9_1	Jun 17, 2025		Soil	S25-Jn0050983			X												
133	BH20_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050984			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
134	BH20_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050985			X												
135	BH20_0.9_1	Jun 17, 2025		Soil	S25-Jn0050986			X												
136	BH19_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050987			X												
137	BH19_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050988					X	X			X						
138	BH19_1_1.1	Jun 17, 2025		Soil	S25-Jn0050989			X												
139	BH18_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050990			X												
140	QC04_20250617_J	Jun 17, 2025		Soil	S25-Jn0050991			X												
141	QC03_20250617_J	Jun 17, 2025		Soil	S25-Jn0050992			X												
142	QC02_20250617_J	Jun 17, 2025		Soil	S25-Jn0050993			X												
143	QC01_20250617_J	Jun 17, 2025		Soil	S25-Jn0050994			X												
144	BH11/MW02_FRAG	Jun 13, 2025		Building Materials	S25-Jn0050995		X													
145	BH16_0.3_0.4	Jun 18, 2025		Soil	S25-Jn0050996			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
146	BH16_0.5_0.6	Jun 18, 2025		Soil	S25-Jn0050997			X												
147	BH16_1_1.1	Jun 18, 2025		Soil	S25-Jn0050998			X												
148	BH16_2_2.1	Jun 18, 2025		Soil	S25-Jn0050999			X												
149	BH21/MW03_0.3_0.4	Jun 18, 2025		Soil	S25-Jn0051000			X												
150	BH21/MW03_0.5_0.6	Jun 18, 2025		Soil	S25-Jn0051001			X												
151	BH21/MW03_1_1.1	Jun 18, 2025		Soil	S25-Jn0051002								X	X		X				
152	BH21/MW03_2_2.1	Jun 18, 2025		Soil	S25-Jn0051003			X												
153	BH21/MW03_4_4.1	Jun 18, 2025		Soil	S25-Jn0051004			X												
154	BH21/MW03_5_5.1	Jun 18, 2025		Soil	S25-Jn0051005			X												
155	BH21/MW03_6_6.1	Jun 18, 2025		Soil	S25-Jn0051006			X												
156	BH21/MW03_	Jun 18, 2025		Soil	S25-Jn0051007			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	7_7.1																			
157	BH21/MW03_9_9.1	Jun 18, 2025		Soil	S25-Jn0051008			X												
158	QC01_20250618_J	Jun 18, 2025		Soil	S25-Jn0051009			X												
159	QC02_20250618_J	Jun 18, 2025		Soil	S25-Jn0051010			X												
160	BH13_0.9_1.0	Jun 18, 2025		Soil	S25-Jn0051386			X												
Test Counts						25	3	92	2	29	28	1	26	36	2	7	19	1	12	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity	meq/100g	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	127			70-130	Pass	
TRH C10-C14	%	72			70-130	Pass	
TRH C6-C10	%	126			70-130	Pass	
TRH >C10-C16	%	73			70-130	Pass	
Naphthalene	%	113			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	124			70-130	Pass	
Ethylbenzene	%	129			70-130	Pass	
m&p-Xylenes	%	126			70-130	Pass	
o-Xylene	%	128			70-130	Pass	
Xylenes - Total*	%	126			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Benzo(g.h.i)perylene	%	82			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	101			70-130	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	95			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	%	123			70-130	Pass	
TRH C6-C10	%	126			70-130	Pass	
Naphthalene	%	110			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	114			70-130	Pass	
Toluene	%	119			70-130	Pass	
Ethylbenzene	%	121			70-130	Pass	
m&p-Xylenes	%	120			70-130	Pass	
o-Xylene	%	118			70-130	Pass	
Xylenes - Total*	%	119			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	101			80-120	Pass	
Cadmium	%	104			80-120	Pass	
Chromium	%	105			80-120	Pass	
Copper	%	105			80-120	Pass	
Lead	%	107			80-120	Pass	
Mercury	%	102			80-120	Pass	
Nickel	%	104			80-120	Pass	
Zinc	%	105			80-120	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	121			70-130	Pass	
Acenaphthylene	%	111			70-130	Pass	
Anthracene	%	122			70-130	Pass	
Benz(a)anthracene	%	116			70-130	Pass	
Benzo(a)pyrene	%	125			70-130	Pass	
Benzo(b&j)fluoranthene	%	124			70-130	Pass	
Benzo(k)fluoranthene	%	118			70-130	Pass	
Chrysene	%	126			70-130	Pass	
Dibenz(a.h)anthracene	%	122			70-130	Pass	
Fluoranthene	%	121			70-130	Pass	
Fluorene	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	125			70-130	Pass	
Naphthalene	%	117			70-130	Pass	
Phenanthrene	%	126			70-130	Pass	
Pyrene	%	124			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	106			70-130	Pass	
4.4'-DDD	%	114			70-130	Pass	
4.4'-DDE	%	120			70-130	Pass	
4.4'-DDT	%	111			70-130	Pass	
a-HCH	%	121			70-130	Pass	
Aldrin	%	106			70-130	Pass	
b-HCH	%	125			70-130	Pass	
d-HCH	%	122			70-130	Pass	
Dieldrin	%	115			70-130	Pass	
Endosulfan I	%	112			70-130	Pass	
Endosulfan II	%	114			70-130	Pass	
Endosulfan sulphate	%	106			70-130	Pass	
Endrin	%	120			70-130	Pass	
Endrin aldehyde	%	111			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	%	99			70-130	Pass	
g-HCH (Lindane)	%	120			70-130	Pass	
Heptachlor	%	109			70-130	Pass	
Heptachlor epoxide	%	99			70-130	Pass	
Hexachlorobenzene	%	116			70-130	Pass	
Methoxychlor	%	107			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	97			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	87			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	94			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	88			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	83			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	92			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	77			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	73			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	89			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	90			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	83			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	80			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	79			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	81			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	93			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	94			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	108			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	84			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	101			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	90			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	89			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	93			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	85			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	93			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	103			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	96			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	94			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	111			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	95			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	87			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	90			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	80			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	100			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	85			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanoic acid (PFNA)	%	106			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	88			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	63			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	93			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	106			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	101			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	75			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	87			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	71			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	103			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	77			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	146			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	97			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	94			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	93			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	73			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	81			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	96			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	86			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	80			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	68			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	116			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	67			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	107			50-150	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	91			70-130	Pass	
Acenaphthylene	%	87			70-130	Pass	
Anthracene	%	105			70-130	Pass	
Benz(a)anthracene	%	76			70-130	Pass	
Benzo(a)pyrene	%	92			70-130	Pass	
Benzo(b&j)fluoranthene	%	75			70-130	Pass	
Benzo(g.h.i)perylene	%	94			70-130	Pass	
Benzo(k)fluoranthene	%	113			70-130	Pass	
Chrysene	%	104			70-130	Pass	
Dibenz(a.h)anthracene	%	81			70-130	Pass	
Fluoranthene	%	93			70-130	Pass	
Fluorene	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	79			70-130	Pass	
Naphthalene	%	91			70-130	Pass	
Phenanthrene	%	89			70-130	Pass	
Pyrene	%	92			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	96			70-130	Pass	
4.4'-DDD	%	89			70-130	Pass	
4.4'-DDE	%	98			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDT	%	93			70-130	Pass	
a-HCH	%	94			70-130	Pass	
Aldrin	%	96			70-130	Pass	
b-HCH	%	99			70-130	Pass	
d-HCH	%	99			70-130	Pass	
Dieldrin	%	96			70-130	Pass	
Endosulfan I	%	94			70-130	Pass	
Endosulfan II	%	84			70-130	Pass	
Endosulfan sulphate	%	93			70-130	Pass	
Endrin	%	88			70-130	Pass	
Endrin aldehyde	%	82			70-130	Pass	
Endrin ketone	%	93			70-130	Pass	
g-HCH (Lindane)	%	102			70-130	Pass	
Heptachlor	%	92			70-130	Pass	
Heptachlor epoxide	%	95			70-130	Pass	
Hexachlorobenzene	%	94			70-130	Pass	
Methoxychlor	%	86			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	105			70-130	Pass	
Aroclor-1260	%	86			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	94			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	96			80-120	Pass	
Copper	%	95			80-120	Pass	
Lead	%	95			80-120	Pass	
Mercury	%	99			80-120	Pass	
Nickel	%	96			80-120	Pass	
Zinc	%	97			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	86			70-130	Pass	
TRH >C10-C16	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	B25-Jn0057417	NCP	%	100			70-130	Pass	
TRH C10-C14	S25-Jn0050852	CP	%	72			70-130	Pass	
TRH C6-C10	B25-Jn0057417	NCP	%	98			70-130	Pass	
TRH >C10-C16	N25-Jn0055770	NCP	%	73			70-130	Pass	
Naphthalene	B25-Jn0057417	NCP	%	98			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	B25-Jn0057417	NCP	%	93			70-130	Pass	
Toluene	B25-Jn0057417	NCP	%	118			70-130	Pass	
Ethylbenzene	B25-Jn0057417	NCP	%	124			70-130	Pass	
m&p-Xylenes	B25-Jn0057417	NCP	%	120			70-130	Pass	
o-Xylene	B25-Jn0057417	NCP	%	117			70-130	Pass	
Xylenes - Total*	B25-Jn0057417	NCP	%	119			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S25-Jn0053815	NCP	%	109			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthylene	S25-Jn0053815	NCP	%	95			70-130	Pass	
Anthracene	S25-Jn0053815	NCP	%	92			70-130	Pass	
Benz(a)anthracene	S25-Jn0053815	NCP	%	83			70-130	Pass	
Benzo(a)pyrene	S25-Jn0053815	NCP	%	127			70-130	Pass	
Benzo(b&j)fluoranthene	S25-Jn0059517	NCP	%	90			70-130	Pass	
Benzo(g.h.i)perylene	S25-Jn0053815	NCP	%	99			70-130	Pass	
Benzo(k)fluoranthene	S25-Jn0059517	NCP	%	83			70-130	Pass	
Chrysene	S25-Jn0059517	NCP	%	98			70-130	Pass	
Dibenz(a.h)anthracene	S25-Jn0053815	NCP	%	89			70-130	Pass	
Fluoranthene	S25-Jn0053815	NCP	%	93			70-130	Pass	
Fluorene	S25-Jn0053815	NCP	%	104			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S25-Jn0059517	NCP	%	110			70-130	Pass	
Naphthalene	S25-Jn0053815	NCP	%	110			70-130	Pass	
Phenanthrene	S25-Jn0053815	NCP	%	92			70-130	Pass	
Pyrene	S25-Jn0053815	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S25-Jn0053815	NCP	%	83			70-130	Pass	
4.4'-DDD	S25-Jn0053815	NCP	%	78			70-130	Pass	
4.4'-DDE	S25-Jn0053815	NCP	%	90			70-130	Pass	
4.4'-DDT	S25-Jn0053815	NCP	%	78			70-130	Pass	
Aldrin	S25-Jn0053815	NCP	%	108			70-130	Pass	
b-HCH	S25-Jn0053815	NCP	%	88			70-130	Pass	
d-HCH	S25-Jn0053815	NCP	%	87			70-130	Pass	
Dieldrin	S25-Jn0053815	NCP	%	118			70-130	Pass	
Endosulfan I	S25-Jn0053815	NCP	%	89			70-130	Pass	
Endosulfan II	S25-Jn0053815	NCP	%	103			70-130	Pass	
Endosulfan sulphate	S25-Jn0053815	NCP	%	80			70-130	Pass	
Endrin	S25-Jn0053815	NCP	%	113			70-130	Pass	
Endrin aldehyde	S25-Jn0053815	NCP	%	105			70-130	Pass	
Endrin ketone	S25-Jn0053815	NCP	%	73			70-130	Pass	
g-HCH (Lindane)	S25-Jn0047984	NCP	%	72			70-130	Pass	
Heptachlor	S25-Jn0053815	NCP	%	83			70-130	Pass	
Heptachlor epoxide	S25-Jn0053815	NCP	%	86			70-130	Pass	
Hexachlorobenzene	S25-Jn0053815	NCP	%	94			70-130	Pass	
Methoxychlor	S25-Jn0059517	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S25-Jn0053815	NCP	%	97			70-130	Pass	
Aroclor-1260	S25-Jn0053815	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S25-Jn0052373	NCP	%	89			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Jn0052373	NCP	%	82			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Jn0052373	NCP	%	74			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Jn0052373	NCP	%	99			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S25-Jn0052373	NCP	%	84			50-150	Pass	
Perfluorononanoic acid (PFNA)	S25-Jn0052373	NCP	%	86			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S25-Jn0052373	NCP	%	85			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Jn0052373	NCP	%	57			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Jn0052373	NCP	%	79			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Jn0052373	NCP	%	140			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorotetradecanoic acid (PFTeDA)	S25-Jn0052373	NCP	%	108			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S25-Jn0052373	NCP	%	83			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Jn0052373	NCP	%	115			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Jn0052373	NCP	%	63			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Jn0052373	NCP	%	95			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Jn0052373	NCP	%	93			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Jn0052373	NCP	%	101			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Jn0052373	NCP	%	112			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S25-Jn0052373	NCP	%	85			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Jn0052373	NCP	%	92			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Jn0052373	NCP	%	67			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Jn0052373	NCP	%	78			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Jn0052373	NCP	%	93			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Jn0052373	NCP	%	87			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-Jn0052373	NCP	%	85			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Jn0052373	NCP	%	91			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Jn0052373	NCP	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Jn0052373	NCP	%	84			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Jn0052373	NCP	%	78			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Jn0052373	NCP	%	81			50-150	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Anthracene	S25-Jn0059465	NCP	%	95			70-130	Pass	
Benz(a)anthracene	S25-Jn0059465	NCP	%	94			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S25-Jn0051733	NCP	%	123			70-130	Pass	
TRH C6-C10	S25-Jn0051733	NCP	%	121			70-130	Pass	
Naphthalene	S25-Jn0051733	NCP	%	126			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene	S25-Jn0051733	NCP	%	98			70-130	Pass	
Toluene	S25-Jn0051733	NCP	%	106			70-130	Pass	
Ethylbenzene	S25-Jn0051733	NCP	%	109			70-130	Pass	
m&p-Xylenes	S25-Jn0051733	NCP	%	105			70-130	Pass	
o-Xylene	S25-Jn0051733	NCP	%	103			70-130	Pass	
Xylenes - Total*	S25-Jn0051733	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S25-Jn0050857	CP	%	75			70-130	Pass	
TRH >C10-C16	S25-Jn0050857	CP	%	74			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
a-HCH	R25-Jn0034914	NCP	%	89			70-130	Pass	
Endrin aldehyde	S25-Jn0038431	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S25-Jn0052287	NCP	%	85			70-130	Pass	
Aroclor-1260	S25-Jn0052287	NCP	%	108			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S25-Jn0050857	CP	%	115			75-125	Pass	
Cadmium	S25-Jn0050857	CP	%	109			75-125	Pass	
Chromium	S25-Jn0050857	CP	%	123			75-125	Pass	
Copper	S25-Jn0050857	CP	%	127			75-125	Fail	Q08
Lead	S25-Jn0050857	CP	%	184			75-125	Fail	Q08
Mercury	S25-Jn0050857	CP	%	113			75-125	Pass	
Nickel	S25-Jn0050857	CP	%	114			75-125	Pass	
Zinc	S25-Jn0050857	CP	%	193			75-125	Fail	Q08
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S25-Jn0050914	CP	%	78			70-130	Pass	
Acenaphthylene	S25-Jn0050914	CP	%	77			70-130	Pass	
Benzo(a)pyrene	S25-Jn0050914	CP	%	76			70-130	Pass	
Benzo(b&j)fluoranthene	S25-Jn0050914	CP	%	81			70-130	Pass	
Benzo(g.h.i)perylene	S25-Jn0050914	CP	%	85			70-130	Pass	
Benzo(k)fluoranthene	S25-Jn0050914	CP	%	70			70-130	Pass	
Chrysene	S25-Jn0050914	CP	%	79			70-130	Pass	
Dibenz(a.h)anthracene	S25-Jn0050914	CP	%	75			70-130	Pass	
Fluoranthene	S25-Jn0050914	CP	%	75			70-130	Pass	
Fluorene	S25-Jn0050914	CP	%	77			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S25-Jn0050914	CP	%	78			70-130	Pass	
Naphthalene	S25-Jn0050914	CP	%	79			70-130	Pass	
Phenanthrene	S25-Jn0050914	CP	%	75			70-130	Pass	
Pyrene	S25-Jn0050914	CP	%	79			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S25-Jn0050914	CP	%	79			70-130	Pass	
4.4'-DDD	S25-Jn0050914	CP	%	83			70-130	Pass	
4.4'-DDE	S25-Jn0050914	CP	%	86			70-130	Pass	
4.4'-DDT	S25-Jn0050914	CP	%	82			70-130	Pass	
a-HCH	S25-Jn0050914	CP	%	86			70-130	Pass	
Aldrin	S25-Jn0050914	CP	%	76			70-130	Pass	
b-HCH	S25-Jn0050914	CP	%	88			70-130	Pass	
d-HCH	S25-Jn0050914	CP	%	87			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dieldrin	S25-Jn0050914	CP	%	88			70-130	Pass	
Endosulfan I	S25-Jn0050914	CP	%	87			70-130	Pass	
Endosulfan II	S25-Jn0050914	CP	%	82			70-130	Pass	
Endosulfan sulphate	S25-Jn0050914	CP	%	78			70-130	Pass	
Endrin	S25-Jn0050914	CP	%	81			70-130	Pass	
Endrin ketone	S25-Jn0050914	CP	%	76			70-130	Pass	
g-HCH (Lindane)	S25-Jn0050914	CP	%	85			70-130	Pass	
Heptachlor	S25-Jn0050914	CP	%	76			70-130	Pass	
Heptachlor epoxide	S25-Jn0050914	CP	%	71			70-130	Pass	
Hexachlorobenzene	S25-Jn0050914	CP	%	82			70-130	Pass	
Methoxychlor	S25-Jn0050914	CP	%	76			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S25-Jn0050932	CP	%	98			75-125	Pass	
Cadmium	S25-Jn0050932	CP	%	98			75-125	Pass	
Chromium	S25-Jn0050932	CP	%	69			75-125	Fail	Q08
Copper	S25-Jn0050932	CP	%	94			75-125	Pass	
Lead	S25-Jn0050932	CP	%	42			75-125	Fail	Q08
Mercury	S25-Jn0050932	CP	%	77			75-125	Pass	
Nickel	S25-Jn0050932	CP	%	95			75-125	Pass	
Zinc	S25-Jn0050932	CP	%	80			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	N25-Jn0055769	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	N25-Jn0055769	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	N25-Jn0055769	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N25-Jn0055769	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N25-Jn0055769	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N25-Jn0055769	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N25-Jn0055769	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N25-Jn0055769	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N25-Jn0055769	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S25-Jn0059474	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
a-HCH	S25-Jn0047981	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S25-Jn0047981	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	B25-Jn0064564	NCP	uS/cm	200	180	8.0	30%	Pass	
pH (1:5 Aqueous extract at 25 °C as rec.)	S25-Jn0059574	NCP	pH Units	7.7	7.9	pass	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Jn0050254	NCP	%	23	24	3.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Jn0041822	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Jn0041822	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Jn0041822	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Jn0041822	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Jn0051188	NCP	%	21	20	8.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S25-Jn0050855	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	S25-Jn0050855	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S25-Jn0050855	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S25-Jn0050855	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S25-Jn0050855	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S25-Jn0050855	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S25-Jn0050855	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S25-Jn0050855	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S25-Jn0050855	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Jn0050855	CP	%	18	16	10	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S25-Jn0051732	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	S25-Jn0051732	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S25-Jn0051732	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S25-Jn0051732	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S25-Jn0051732	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S25-Jn0051732	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S25-Jn0051732	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S25-Jn0051732	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S25-Jn0051732	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Jn0050869	CP	%	6.8	3.8	57	30%	Fail	Q15
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S25-Jn0050873	CP	mg/kg	3.1	3.3	8.0	30%	Pass	
Cadmium	S25-Jn0050873	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S25-Jn0050873	CP	mg/kg	14	14	<1	30%	Pass	
Copper	S25-Jn0050873	CP	mg/kg	7.3	8.4	15	30%	Pass	
Lead	S25-Jn0050873	CP	mg/kg	34	34	1.0	30%	Pass	
Mercury	S25-Jn0050873	CP	mg/kg	0.1	0.1	2.0	30%	Pass	
Nickel	S25-Jn0050873	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S25-Jn0050873	CP	mg/kg	15	20	31	30%	Fail	Q15

Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S25-Jn0050905	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S25-Jn0050905	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S25-Jn0050905	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S25-Jn0050905	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S25-Jn0050905	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S25-Jn0050905	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S25-Jn0050905	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S25-Jn0050905	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S25-Jn0050905	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S25-Jn0050905	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S25-Jn0050905	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S25-Jn0050905	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S25-Jn0050905	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S25-Jn0050905	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S25-Jn0050905	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S25-Jn0050905	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S25-Jn0050905	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S25-Jn0050913	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S25-Jn0050913	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S25-Jn0050913	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S25-Jn0050913	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S25-Jn0050913	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S25-Jn0050913	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S25-Jn0050913	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S25-Jn0050913	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S25-Jn0050913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S25-Jn0050913	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S25-Jn0050913	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S25-Jn0050913	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S25-Jn0050913	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S25-Jn0050913	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1254	S25-Jn0050913	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S25-Jn0050913	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S25-Jn0050913	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S25-Jn0051002	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S25-Jn0051002	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S25-Jn0051002	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S25-Jn0051002	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S25-Jn0051002	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S25-Jn0051002	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S25-Jn0051002	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S25-Jn0051002	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S25-Jn0051002	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S25-Jn0051002	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S25-Jn0051002	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S25-Jn0051002	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S25-Jn0051002	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S25-Jn0051002	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S25-Jn0051002	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S25-Jn0051002	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S25-Jn0051002	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S25-Jn0051002	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S25-Jn0051002	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S25-Jn0051002	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S25-Jn0051002	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	S25-Jn0051002	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	S25-Jn0051002	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S25-Jn0051002	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S25-Jn0051002	CP	mg/kg	< 5	< 5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
G07	Analysis indeterminable due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Nileshni Goundar	Analytical Services Manager
Chamath JHM Annakkage	Senior Analyst-Asbestos
Emily Rosenberg	Senior Analyst-Metal
Luke Holt	Senior Analyst-Inorganic
Maria Tian	Senior Analyst-Organic
Mickael Ros	Senior Analyst-Metal
Raymond Siu	Senior Analyst-Volatile
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-PFAS
Ryan Phillips	Senior Analyst-Inorganic
Ryan Phillips	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Lauren Holmes**

Report **1234275-W**
Project name PAGEWOOD
Project ID 69149
Received Date Jun 18, 2025

Client Sample ID			**RINSATE**	**BLANK**	**TS**	**TB**
Sample Matrix			**Water**	**Water**	**Trip Spike (liquid)**	**Trip Blank (liquid)**
Eurofins Sample No.			**S25-Jn0050918**	**S25-Jn0050919**	**S25-Jn0050920**	**S25-Jn0050921**
Date Sampled			**Jun 17, 2025**	**Jun 17, 2025**	**Jun 18, 2025**	**Jun 18, 2025**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	-	-	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	-	-	-
TRH C15-C28	0.1	mg/L	< 0.1	-	-	-
TRH C29-C36	0.1	mg/L	< 0.1	-	-	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-	-	-
TRH C6-C10	0.02	mg/L	< 0.02	-	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-	-	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	-	-	-
TRH >C10-C16 less Naphthalene (F2)*[N01]	0.05	mg/L	< 0.05	-	-	-
Naphthalene[N02]	0.01	mg/L	< 0.01	-	-	< 0.01
TRH >C16-C34	0.1	mg/L	< 0.1	-	-	-
TRH >C34-C40	0.1	mg/L	< 0.1	-	-	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-	-	-
BTEX						
Benzene	0.001	mg/L	< 0.001	-	-	< 0.001
Toluene	0.001	mg/L	< 0.001	-	-	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	-	-	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	-	-	< 0.002
o-Xylene	0.001	mg/L	< 0.001	-	-	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	-	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	74	-	-	77
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	-	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-	-
Anthracene	0.001	mg/L	< 0.001	-	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-	-
Chrysene	0.001	mg/L	< 0.001	-	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-	-
Fluorene	0.001	mg/L	< 0.001	-	-	-

Client Sample ID			RINSATE	BLANK	TS	TB
Sample Matrix			Water	Water	Trip Spike (liquid)	Trip Blank (liquid)
Eurofins Sample No.			S25-Jn0050918	S25-Jn0050919	S25-Jn0050920	S25-Jn0050921
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 18, 2025	Jun 18, 2025
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-	-
Naphthalene	0.001	mg/L	< 0.001	-	-	-
Phenanthrene	0.001	mg/L	< 0.001	-	-	-
Pyrene	0.001	mg/L	< 0.001	-	-	-
Total PAH*	0.001	mg/L	< 0.001	-	-	-
2-Fluorobiphenyl (surr.)	1	%	111	-	-	-
p-Terphenyl-d14 (surr.)	1	%	INT	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	< 0.002	-	-	-
4.4'-DDD	0.0002	mg/L	< 0.0002	-	-	-
4.4'-DDE	0.0002	mg/L	< 0.0002	-	-	-
4.4'-DDT	0.0002	mg/L	< 0.0002	-	-	-
a-HCH	0.0002	mg/L	< 0.0002	-	-	-
Aldrin	0.0002	mg/L	< 0.0002	-	-	-
b-HCH	0.0002	mg/L	< 0.0002	-	-	-
d-HCH	0.0002	mg/L	< 0.0002	-	-	-
Dieldrin	0.0002	mg/L	< 0.0002	-	-	-
Endosulfan I	0.0002	mg/L	< 0.0002	-	-	-
Endosulfan II	0.0002	mg/L	< 0.0002	-	-	-
Endosulfan sulphate	0.0002	mg/L	< 0.0002	-	-	-
Endrin	0.0002	mg/L	< 0.0002	-	-	-
Endrin aldehyde	0.0002	mg/L	< 0.0002	-	-	-
Endrin ketone	0.0002	mg/L	< 0.0002	-	-	-
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	-	-	-
Heptachlor	0.0002	mg/L	< 0.0002	-	-	-
Heptachlor epoxide	0.0002	mg/L	< 0.0002	-	-	-
Hexachlorobenzene	0.0002	mg/L	< 0.0002	-	-	-
Methoxychlor	0.0002	mg/L	< 0.0002	-	-	-
Toxaphene	0.005	mg/L	< 0.005	-	-	-
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	-	-	-
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	-	-	-
Dibutylchlorendate (surr.)	1	%	INT	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	INT	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	< 0.005	-	-	-
Aroclor-1221	0.005	mg/L	< 0.005	-	-	-
Aroclor-1232	0.005	mg/L	< 0.005	-	-	-
Aroclor-1242	0.005	mg/L	< 0.005	-	-	-
Aroclor-1248	0.005	mg/L	< 0.005	-	-	-
Aroclor-1254	0.005	mg/L	< 0.005	-	-	-
Aroclor-1260	0.005	mg/L	< 0.005	-	-	-
Total PCB*	0.005	mg/L	< 0.005	-	-	-
Dibutylchlorendate (surr.)	1	%	INT	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	INT	-	-	-

Client Sample ID			RINSATE	BLANK	TS	TB
Sample Matrix			Water	Water	Trip Spike (liquid)	Trip Blank (liquid)
Eurofins Sample No.			S25-Jn0050918	S25-Jn0050919	S25-Jn0050920	S25-Jn0050921
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 18, 2025	Jun 18, 2025
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	< 0.001	-	-	-
Cadmium (filtered)	0.0002	mg/L	< 0.0002	-	-	-
Chromium (filtered)	0.001	mg/L	< 0.001	-	-	-
Copper (filtered)	0.001	mg/L	< 0.001	-	-	-
Lead (filtered)	0.001	mg/L	< 0.001	-	-	-
Mercury (filtered)	0.0001	mg/L	< 0.0001	-	-	-
Nickel (filtered)	0.001	mg/L	< 0.001	-	-	-
Zinc (filtered)	0.005	mg/L	0.007	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
13C4-PFBA (surr.)	1	%	88	115	-	-
13C5-PFPeA (surr.)	1	%	97	119	-	-
13C5-PFHxA (surr.)	1	%	99	120	-	-
13C4-PFHpA (surr.)	1	%	92	117	-	-
13C8-PFOA (surr.)	1	%	103	127	-	-
13C5-PFNA (surr.)	1	%	97	135	-	-
13C6-PFDA (surr.)	1	%	90	134	-	-
13C2-PFUnDA (surr.)	1	%	88	125	-	-
13C2-PFDoDA (surr.)	1	%	82	114	-	-
13C2-PFTeDA (surr.)	1	%	76	61	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
13C8-FOSA (surr.)	1	%	92	130	-	-
D3-N-MeFOSA (surr.)	1	%	79	114	-	-
D5-N-EtFOSA (surr.)	1	%	89	108	-	-
D7-N-MeFOSE (surr.)	1	%	80	108	-	-
D9-N-EtFOSE (surr.)	1	%	78	102	-	-
D5-N-EtFOSAA (surr.)	1	%	73	117	-	-
D3-N-MeFOSAA (surr.)	1	%	82	122	-	-

Client Sample ID			RINSATE	BLANK	TS	TB
Sample Matrix			Water	Water	Trip Spike (liquid)	Trip Blank (liquid)
Eurofins Sample No.			S25-Jn0050918	S25-Jn0050919	S25-Jn0050920	S25-Jn0050921
Date Sampled			Jun 17, 2025	Jun 17, 2025	Jun 18, 2025	Jun 18, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
13C3-PFBS (surr.)	1	%	108	127	-	-
18O2-PFHxS (surr.)	1	%	99	118	-	-
13C8-PFOS (surr.)	1	%	90	122	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
13C2-4:2 FTSA (surr.)	1	%	92	139	-	-
13C2-6:2 FTSA (surr.)	1	%	100	124	-	-
13C2-8:2 FTSA (surr.)	1	%	74	130	-	-
13C2-10:2 FTSA (surr.)	1	%	89	146	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	-	-
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	-	-
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	-	-
TRH C6-C10	1	%	-	-	99	-
Total Recoverable Hydrocarbons						
Naphthalene	1	%	-	-	91	-
TRH C6-C9	1	%	-	-	100	-
BTEX						
Benzene	1	%	-	-	120	-
Ethylbenzene	1	%	-	-	110	-
m&p-Xylenes	1	%	-	-	120	-
o-Xylene	1	%	-	-	120	-
Toluene	1	%	-	-	120	-
Xylenes - Total	1	%	-	-	120	-
4-Bromofluorobenzene (surr.)	1	%	-	-	92	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jun 19, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 19, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Jun 19, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jun 19, 2025	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 19, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jun 19, 2025	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Jun 19, 2025	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Jun 19, 2025	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8 filtered	Sydney	Jun 19, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Sydney	Jun 19, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Sydney	Jun 19, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Sydney	Jun 19, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Sydney	Jun 19, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Address: Level 8, 179 Elizabeth St
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NSW 2000

Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1234275
Phone: 02 8245 0300
Fax:

Received: Jun 18, 2025 5:09 PM
Due: Jun 25, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254										X					
Sydney Laboratory - NATA # 1261 Site # 18217	X	X	X	X	X	X	X	X	X		X	X	X	X	X
External Laboratory															

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID												
1	BH02/MW01_0_0.1	Jun 13, 2025		Soil	S25-Jn0050852				X				X	X	X	X			X	
2	BH02/MW01_3_3.1	Jun 13, 2025		Soil	S25-Jn0050853					X	X			X						
3	BH02/MW01_7_7.1	Jun 13, 2025		Soil	S25-Jn0050854			X												
4	BH02/MW01_9.9_10	Jun 13, 2025		Soil	S25-Jn0050855			X												
5	BH02/MW01_0_0.3	Jun 13, 2025		Soil	S25-Jn0050856	X														
6	BH08_0_0.1	Jun 13, 2025		Soil	S25-Jn0050857								X	X		X			X	
7	BH08_2_2.1	Jun 13, 2025		Soil	S25-Jn0050858					X	X			X						
8	BH08_2.9_3	Jun 13, 2025		Soil	S25-Jn0050859			X												
9	BH08_0.3_0.5	Jun 13, 2025		Soil	S25-Jn0050860	X														
10	QC01_202506	Jun 13, 2025		Soil	S25-Jn0050861								X	X		X				

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	13																			
11	QC01_20250613_J	Jun 13, 2025		Soil	S25-Jn0050862									X					X	
12	QC01_20250613_AQ	Jun 13, 2025		Soil	S25-Jn0050863	X														
13	BH11/MW02_0_0.1	Jun 13, 2025		Soil	S25-Jn0050864					X	X		X	X			X		X	
14	BH11/MW02_3_3.1	Jun 13, 2025		Soil	S25-Jn0050865			X												
15	BH11/MW02_9.9_10	Jun 13, 2025		Soil	S25-Jn0050866					X	X			X						
16	BH11/MW02_0_0.3	Jun 13, 2025		Soil	S25-Jn0050867	X														
17	QC02_20250613_J	Jun 13, 2025		Soil	S25-Jn0050868			X												
18	BH09_0_0.1	Jun 16, 2025		Soil	S25-Jn0050869					X	X		X	X			X			
19	BH09_0_0.3	Jun 16, 2025		Soil	S25-Jn0050870	X														
20	BH10_0_0.1	Jun 16, 2025		Soil	S25-Jn0050871					X	X		X	X			X			

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
21	BH10_0_0.3	Jun 16, 2025		Soil	S25-Jn0050872	X														
22	BH07_0_0.1	Jun 16, 2025		Soil	S25-Jn0050873					X	X		X	X			X		X	
23	BH05_0_0.1	Jun 16, 2025		Soil	S25-Jn0050874					X	X		X	X			X			
24	BH05_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050875					X	X		X	X			X			
25	BH05_0_0.5	Jun 16, 2025		Soil	S25-Jn0050876	X														
26	BH04_0_0.1	Jun 16, 2025		Soil	S25-Jn0050877					X	X		X	X			X			
27	BH04_0_0.4	Jun 16, 2025		Soil	S25-Jn0050878	X														
28	BH01_0_0.1	Jun 16, 2025		Soil	S25-Jn0050879					X	X		X	X			X			
29	BH01_0_0.3	Jun 16, 2025		Soil	S25-Jn0050880	X														
30	BH06_0_0.1	Jun 16, 2025		Soil	S25-Jn0050881					X	X		X	X			X			
31	BH06_0_0.4	Jun 16, 2025		Soil	S25-Jn0050882	X														
32	BH03_0_0.1	Jun 16, 2025		Soil	S25-Jn0050883					X	X		X	X			X			
33	BH03_0_0.4	Jun 16, 2025		Soil	S25-Jn0050884	X														
34	QC01_20250616	Jun 16, 2025		Soil	S25-Jn0050885			X												
35	QC03_202506	Jun 16, 2025		Soil	S25-Jn0050886			X												

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	16																			
36	QC01_20250616_AQ	Jun 16, 2025		Soil	S25-Jn0050887	X														
37	QC02_20250616	Jun 16, 2025		Soil	S25-Jn0050888								X	X		X				
38	BH13_0_0.1	Jun 17, 2025		Soil	S25-Jn0050889					X	X		X	X			X			
39	BH13_0_0.3	Jun 17, 2025		Soil	S25-Jn0050890	X														
40	BH12_0_0.1	Jun 17, 2025		Soil	S25-Jn0050891					X	X		X	X			X		X	
41	BH12_0_0.3	Jun 17, 2025		Soil	S25-Jn0050892	X														
42	BH12_FRAG	Jun 17, 2025		Building Materials	S25-Jn0050893		X													
43	BH14_0_0.1	Jun 17, 2025		Soil	S25-Jn0050894								X	X		X				
44	BH14_0_0.3	Jun 17, 2025		Soil	S25-Jn0050895	X														
45	BH15_0_0.1	Jun 17, 2025		Soil	S25-Jn0050896					X	X		X	X			X			
46	BH15_0_0.3	Jun 17, 2025		Soil	S25-Jn0050897	X														
47	BH17_0_0.1	Jun 17, 2025		Soil	S25-Jn0050898					X	X		X	X			X			
48	BH17_0_0.4	Jun 17, 2025		Soil	S25-Jn0050899	X														

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
49	BH20_0_0.1	Jun 17, 2025		Soil	S25-Jn0050900					X	X		X	X			X		X	
50	BH20_0_0.2	Jun 17, 2025		Soil	S25-Jn0050901	X														
51	BH19_0_0.8	Jun 17, 2025		Soil	S25-Jn0050902	X														
52	BH19_0_0.1	Jun 17, 2025		Soil	S25-Jn0050903								X	X		X			X	
53	BH19_FRAG	Jun 17, 2025		Building Materials	S25-Jn0050904		X													
54	BH18_0_0.1	Jun 17, 2025		Soil	S25-Jn0050905					X	X		X	X			X		X	
55	BH18_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050906				X	X	X			X	X					
56	BH18_0_0.2	Jun 17, 2025		Soil	S25-Jn0050907	X														
57	QC02_20250617	Jun 17, 2025		Soil	S25-Jn0050908			X												
58	QC01_20250617	Jun 17, 2025		Soil	S25-Jn0050909			X												
59	BH16_0_0.1	Jun 18, 2025		Soil	S25-Jn0050910					X	X		X	X			X			
60	BH16_3_3.1	Jun 18, 2025		Soil	S25-Jn0050911			X												
61	BH16_0_0.3	Jun 18, 2025		Soil	S25-Jn0050912	X														
62	BH21/MW03_	Jun 18, 2025		Soil	S25-Jn0050913					X	X		X	X			X		X	

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Eurofins Environment Testing NZ Ltd
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Auckland	Auckland (Focus)	Christchurch	Tauranga
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Penrose	Mount Wellington	Rolleston	Gate Pa
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1234275
Phone: 02 8245 0300
Fax:

Received: Jun 18, 2025 5:09 PM
Due: Jun 25, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD*	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	0_0.1																			
63	BH21/MW03_3_3.1	Jun 18, 2025		Soil	S25-Jn0050914			X												
64	BH21/MW03_8_8.1	Jun 18, 2025		Soil	S25-Jn0050915			X												
65	BH21/MW03_9.9_10	Jun 18, 2025		Soil	S25-Jn0050916			X												
66	BH21/MW03_0_0.3	Jun 18, 2025		Soil	S25-Jn0050917	X														
67	RINSATE	Jun 17, 2025		Water	S25-Jn0050918					X		X	X				X		X	
68	BLANK	Jun 17, 2025		Water	S25-Jn0050919														X	
69	TS	Jun 18, 2025		Trip Spike (liquid)	S25-Jn0050920															X
70	TB	Jun 18, 2025		Trip Blank (liquid)	S25-Jn0050921													X		
71	BH02/MW01_0.3_0.4	Jun 13, 2025		Soil	S25-Jn0050922			X												
72	BH02/MW01_	Jun 13, 2025		Soil	S25-Jn0050923			X												

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Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	0.5_0.6																			
73	BH02/MW01_1_1.1	Jun 13, 2025		Soil	S25-Jn0050924			X												
74	BH02/MW01_2_2.1	Jun 13, 2025		Soil	S25-Jn0050925			X												
75	BH02/MW01_4_4.1	Jun 13, 2025		Soil	S25-Jn0050926			X												
76	BH02/MW01_5_5.1	Jun 13, 2025		Soil	S25-Jn0050927			X												
77	BH02/MW01_6_6.1	Jun 13, 2025		Soil	S25-Jn0050928			X												
78	BH02/MW01_8_8.1	Jun 13, 2025		Soil	S25-Jn0050929			X												
79	BH02/MW01_9_9.1	Jun 13, 2025		Soil	S25-Jn0050930			X												
80	BH02/MW01_0.3_0.5	Jun 13, 2025		Soil	S25-Jn0050931	X														
81	BH08_0.3_0.4	Jun 13, 2025		Soil	S25-Jn0050932					X	X			X						

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
82	BH08_0.5_0.6	Jun 13, 2025		Soil	S25-Jn0050933			X												
83	BH08_1_1.1	Jun 13, 2025		Soil	S25-Jn0050934			X												
84	BH08_0_0.3	Jun 13, 2025		Soil	S25-Jn0050935	X														
85	BH11/MW02_0.3_0.4	Jun 13, 2025		Soil	S25-Jn0050936			X												
86	BH11/MW02_0.5_0.6	Jun 13, 2025		Soil	S25-Jn0050937			X												
87	BH11/MW02_1_1.1	Jun 13, 2025		Soil	S25-Jn0050938			X												
88	BH11/MW02_2_2.1	Jun 13, 2025		Soil	S25-Jn0050939			X												
89	BH11/MW02_4_4.1	Jun 13, 2025		Soil	S25-Jn0050940			X												
90	BH11/MW02_5_5.1	Jun 13, 2025		Soil	S25-Jn0050941			X												
91	BH11/MW02_6_6.1	Jun 13, 2025		Soil	S25-Jn0050942			X												
92	BH11/MW02_	Jun 13, 2025		Soil	S25-Jn0050943			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	7_7.1																			
93	BH11/MW02_8_8.1	Jun 13, 2025		Soil	S25-Jn0050944			X												
94	BH11/MW02_9_9.1	Jun 13, 2025		Soil	S25-Jn0050945			X												
95	BH09_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050946			X												
96	BH09_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050947			X												
97	BH09_0.9_1	Jun 16, 2025		Soil	S25-Jn0050948			X												
98	BH10_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050949			X												
99	BH10_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050950			X												
100	BH07_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050951			X												
101	BH07_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050952			X												
102	BH07_0.9_1	Jun 16, 2025		Soil	S25-Jn0050953			X												
103	BH07_0_0.4	Jun 16, 2025		Soil	S25-Jn0050954	X														
104	BH05_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050955			X												
105	BH05_0.9_1	Jun 16, 2025		Soil	S25-Jn0050956			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
106	BH04_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050957					X	X			X						
107	BH04_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050958			X												
108	BH01_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050959			X												
109	BH01_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050960			X												
110	BH01_0.9_1	Jun 16, 2025		Soil	S25-Jn0050961			X												
111	BH06_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050962					X	X			X						
112	BH06_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050963			X												
113	BH03_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050964			X												
114	BH03_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050965			X												
115	BH03_0.9_1	Jun 16, 2025		Soil	S25-Jn0050966			X												
116	QC01_20250616_J	Jun 16, 2025		Soil	S25-Jn0050967			X												
117	QC02_20250616_J	Jun 16, 2025		Soil	S25-Jn0050968			X												
118	QC04_20250616_J	Jun 16, 2025		Soil	S25-Jn0050969			X												
119	QC03_202506	Jun 16, 2025		Soil	S25-Jn0050970			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
119	QC03_20250616_J	Jun 16, 2025		Soil	S25-Jn0050970															
120	BH13_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050971			X												
121	BH13_0.5_0.5	Jun 17, 2025		Soil	S25-Jn0050972			X												
122	BH12_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050973					X	X			X						
123	BH12_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050974			X												
124	BH14_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050975			X												
125	BH14_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050976			X												
126	BH14_0.9_1	Jun 17, 2025		Soil	S25-Jn0050977			X												
127	BH15_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050978					X	X			X						
128	BH15_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050979			X												
129	BH15_0.9_1	Jun 17, 2025		Soil	S25-Jn0050980			X												
130	BH17_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050981			X												
131	BH17_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050982			X												
132	BH17_0.9_1	Jun 17, 2025		Soil	S25-Jn0050983			X												
133	BH20_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050984			X												

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Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD*	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
134	BH20_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050985			X												
135	BH20_0.9_1	Jun 17, 2025		Soil	S25-Jn0050986			X												
136	BH19_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050987			X												
137	BH19_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050988					X	X			X						
138	BH19_1_1.1	Jun 17, 2025		Soil	S25-Jn0050989			X												
139	BH18_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050990			X												
140	QC04_20250617_J	Jun 17, 2025		Soil	S25-Jn0050991			X												
141	QC03_20250617_J	Jun 17, 2025		Soil	S25-Jn0050992			X												
142	QC02_20250617_J	Jun 17, 2025		Soil	S25-Jn0050993			X												
143	QC01_20250617_J	Jun 17, 2025		Soil	S25-Jn0050994			X												
144	BH11/MW02_FRAG	Jun 13, 2025		Building Materials	S25-Jn0050995		X													
145	BH16_0.3_0.4	Jun 18, 2025		Soil	S25-Jn0050996			X												

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1234275
Phone: 02 8245 0300
Fax:

Received: Jun 18, 2025 5:09 PM
Due: Jun 25, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD*	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
146	BH16_0.5_0.6	Jun 18, 2025		Soil	S25-Jn0050997			X												
147	BH16_1_1.1	Jun 18, 2025		Soil	S25-Jn0050998			X												
148	BH16_2_2.1	Jun 18, 2025		Soil	S25-Jn0050999			X												
149	BH21/MW03_0.3_0.4	Jun 18, 2025		Soil	S25-Jn0051000			X												
150	BH21/MW03_0.5_0.6	Jun 18, 2025		Soil	S25-Jn0051001			X												
151	BH21/MW03_1_1.1	Jun 18, 2025		Soil	S25-Jn0051002								X	X		X				
152	BH21/MW03_2_2.1	Jun 18, 2025		Soil	S25-Jn0051003			X												
153	BH21/MW03_4_4.1	Jun 18, 2025		Soil	S25-Jn0051004			X												
154	BH21/MW03_5_5.1	Jun 18, 2025		Soil	S25-Jn0051005			X												
155	BH21/MW03_6_6.1	Jun 18, 2025		Soil	S25-Jn0051006			X												
156	BH21/MW03_	Jun 18, 2025		Soil	S25-Jn0051007			X												

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
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Received: Jun 18, 2025 5:09 PM
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Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD*	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	7_7.1																			
157	BH21/MW03_9_9.1	Jun 18, 2025		Soil	S25-Jn0051008			X												
158	QC01_20250618_J	Jun 18, 2025		Soil	S25-Jn0051009			X												
159	QC02_20250618_J	Jun 18, 2025		Soil	S25-Jn0051010			X												
160	BH13_0.9_1.0	Jun 18, 2025		Soil	S25-Jn0051386			X												
Test Counts						25	3	92	2	29	28	1	26	36	2	7	19	1	12	1

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic (filtered)	%	93			80-120	Pass	
Cadmium (filtered)	%	96			80-120	Pass	
Chromium (filtered)	%	97			80-120	Pass	
Copper (filtered)	%	97			80-120	Pass	
Lead (filtered)	%	98			80-120	Pass	
Mercury (filtered)	%	97			80-120	Pass	
Nickel (filtered)	%	97			80-120	Pass	
Zinc (filtered)	%	97			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S25-Jn0050918	CP	%	89			70-130	Pass	
Acenaphthylene	S25-Jn0050918	CP	%	90			70-130	Pass	
Anthracene	S25-Jn0050918	CP	%	93			70-130	Pass	
Benz(a)anthracene	S25-Jn0050918	CP	%	92			70-130	Pass	
Benzo(a)pyrene	S25-Jn0050918	CP	%	92			70-130	Pass	
Benzo(b&j)fluoranthene	S25-Jn0050918	CP	%	88			70-130	Pass	
Benzo(g.h.i)perylene	S25-Jn0050918	CP	%	94			70-130	Pass	
Benzo(k)fluoranthene	S25-Jn0050918	CP	%	97			70-130	Pass	
Chrysene	S25-Jn0050918	CP	%	101			70-130	Pass	
Dibenz(a.h)anthracene	S25-Jn0050918	CP	%	86			70-130	Pass	
Fluoranthene	S25-Jn0050918	CP	%	79			70-130	Pass	
Fluorene	S25-Jn0050918	CP	%	82			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S25-Jn0050918	CP	%	94			70-130	Pass	
Naphthalene	S25-Jn0050918	CP	%	76			70-130	Pass	
Phenanthrene	S25-Jn0050918	CP	%	80			70-130	Pass	
Pyrene	S25-Jn0050918	CP	%	81			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S25-Jn0050918	CP	%	89			70-130	Pass	
4.4'-DDD	S25-Jn0050918	CP	%	105			70-130	Pass	
4.4'-DDE	S25-Jn0050918	CP	%	91			70-130	Pass	
4.4'-DDT	S25-Jn0050918	CP	%	130			70-130	Pass	
Aldrin	S25-Jn0050918	CP	%	89			70-130	Pass	
b-HCH	S25-Jn0050918	CP	%	84			70-130	Pass	
d-HCH	S25-Jn0050918	CP	%	88			70-130	Pass	
Dieldrin	S25-Jn0050918	CP	%	93			70-130	Pass	
Endosulfan I	S25-Jn0050918	CP	%	88			70-130	Pass	
Endosulfan II	S25-Jn0050918	CP	%	105			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	S25-Jn0050918	CP	%	119			70-130	Pass	
Endrin	S25-Jn0050918	CP	%	109			70-130	Pass	
Endrin aldehyde	S25-Jn0050918	CP	%	103			70-130	Pass	
Endrin ketone	S25-Jn0050918	CP	%	115			70-130	Pass	
Heptachlor	S25-Jn0050918	CP	%	93			70-130	Pass	
Heptachlor epoxide	S25-Jn0050918	CP	%	87			70-130	Pass	
Hexachlorobenzene	S25-Jn0050918	CP	%	80			70-130	Pass	
Methoxychlor	S25-Jn0050918	CP	%	90			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S25-Jn0050918	CP	%	91			70-130	Pass	
Aroclor-1260	S25-Jn0050918	CP	%	94			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S25-Jn0050918	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	S25-Jn0050918	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S25-Jn0050918	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	S25-Jn0050918	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S25-Jn0050918	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S25-Jn0050918	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S25-Jn0050918	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc (filtered)	S25-Jn0050918	CP	mg/L	0.007	0.007	4.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Nileshni Goundar	Analytical Services Manager
Mickael Ros	Senior Analyst-Metal
Raymond Siu	Senior Analyst-Volatile
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-PFAS

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Certificate of Analysis

Environment Testing

JBS & G Australia (NSW) P/L
Level 8, 179 Elizabeth St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:	Lauren Holmes
Report	1234275-AID
Project Name	PAGEWOOD
Project ID	69149
Received Date	Jun 18, 2025
Date Reported	Jun 27, 2025

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004 and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Man-made vitreous fibre (MMVF)	Fibres exhibiting isotropic characteristics, including glass fibres, glass wool, rock wool, slag wool, ceramic fibres and bio-soluble fibres. NOTE: previously known as "synthetic mineral fibre" (SMF). Simple analytical procedures such as polarised light microscopy cannot detect or reliably identify asbestos in some types of commercial products containing asbestos, either because the fibres are below the resolution of optical microscopy or because the matrix material adheres too strongly to the fibres. For these types of products, electron microscopy may be necessary.
Subsampling Soil Samples	The sample submitted is dried and passed through a 10 mm sieve followed by a 2 mm sieve. All fibrous matter greater than 10 mm and greater than 2 mm and the material passing through the 2 mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 g to 60 g, then a subsampling routine based on ISO 3082:2017(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be subsampled for trace analysis, in accordance with AS 5370:2024*.*
Bonded asbestos-containing material (ACM)	The material is first examined, and any fibres are isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 5370:2024*. *NOTE: Even after disintegration, it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting (LOR)	The performance limitation of the AS 5370:2024* method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory limit of reporting, per se. Examination of large sample size (e.g., 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 5370:2024*, and hence, NATA Accreditation does not cover the performance of this service (non-NATA results are shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964-2004: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name PAGEWOOD
Project ID 69149
Date Sampled Jun 13, 2025 to Jun 18, 2025
Report 1234275-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH02/MW01_0_0.3	25-Jn0050856	Jun 13, 2025	Approximate Sample 739g Sample consisted of: Dark grey coarse-grained sandy soil, plant residue and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH08_0.3_0.5	25-Jn0050860	Jun 13, 2025	Approximate Sample 787g Sample consisted of: Grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC01_20250613_AQ	25-Jn0050863	Jun 13, 2025	Approximate Sample 741g Sample consisted of: Grey coarse-grained sandy soil, plant residue and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH11/MW02_0_0.3	25-Jn0050867	Jun 13, 2025	Approximate Sample 824g Sample consisted of: Dark grey coarse-grained sandy soil, glass, plant residue and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH09_0_0.3	25-Jn0050870	Jun 16, 2025	Approximate Sample 846g Sample consisted of: Dark grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH10_0_0.3	25-Jn0050872	Jun 16, 2025	Approximate Sample 778g Sample consisted of: Dark grey coarse-grained sandy soil, glass, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH05_0_0.5	25-Jn0050876	Jun 16, 2025	Approximate Sample 782g Sample consisted of: Dark grey coarse-grained sandy soil, plant residue and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH04_0_0.4	25-Jn0050878	Jun 16, 2025	Approximate Sample 823g Sample consisted of: Dark grey coarse-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH01_0_0.3	25-Jn0050880	Jun 16, 2025	Approximate Sample 695g Sample consisted of: Dark grey coarse-grained sandy soil, plant residue and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH06_0_0.4	25-Jn0050882	Jun 16, 2025	Approximate Sample 776g Sample consisted of: Dark grey coarse-grained sandy soil, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH03_0_0.4	25-Jn0050884	Jun 16, 2025	Approximate Sample 640g Sample consisted of: Dark grey coarse-grained sandy soil, plant residue and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC01_20250616_AQ	25-Jn0050887	Jun 16, 2025	Approximate Sample 850g Sample consisted of: Grey coarse-grained sandy soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH13_0_0.3	25-Jn0050890	Jun 17, 2025	Approximate Sample 639g Sample consisted of: Dark grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH12_0_0.3	25-Jn0050892	Jun 17, 2025	Approximate Sample 772g Sample consisted of: Dark grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH12_FRAG	25-Jn0050893	Jun 17, 2025	Approximate Sample 20g / 55x30x5mm Sample consisted of: Grey compressed fibre cement material	Chrysotile, amosite and crocidolite asbestos detected.
BH14_0_0.3	25-Jn0050895	Jun 17, 2025	Approximate Sample 788g Sample consisted of: Dark grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH15_0_0.3	25-Jn0050897	Jun 17, 2025	Approximate Sample 770g Sample consisted of: Dark grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH17_0_0.4	25-Jn0050899	Jun 17, 2025	Approximate Sample 853g Sample consisted of: Dark grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH20_0_0.2	25-Jn0050901	Jun 17, 2025	Approximate Sample 919g Sample consisted of: Grey coarse-grained sandy soil, plant residue and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH19_0_0.8	25-Jn0050902	Jun 17, 2025	Approximate Sample 808g Sample consisted of: Grey coarse-grained sandy soil, glass, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH19_FRAG	25-Jn0050904	Jun 17, 2025	Approximate Sample 9g / 30x15x5mm Sample consisted of: Brown fibre cement material	Chrysotile asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH18_0_0.2	25-Jn0050907	Jun 17, 2025	Approximate Sample 770g Sample consisted of: Dark grey coarse-grained sandy soil, plant residue and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH16_0_0.3	25-Jn0050912	Jun 18, 2025	Approximate Sample 691g Sample consisted of: Dark grey coarse-grained sandy soil, plant residue, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH21/MW03_0_0.3	25-Jn0050917	Jun 18, 2025	Approximate Sample 765g Sample consisted of: Grey coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH02/MW01_0.3_0.5	25-Jn0050931	Jun 13, 2025	Approximate Sample 1062g Sample consisted of: Beige coarse-grained sandy soil, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH08_0_0.3	25-Jn0050935	Jun 13, 2025	Approximate Sample 833g Sample consisted of: Dark grey coarse-grained sandy soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH07_0_0.4	25-Jn0050954	Jun 16, 2025	Approximate Sample 697g Sample consisted of: Dark grey coarse-grained sandy soil, wood chips, plant residue and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH11/MW02_FRAG	25-Jn0050995	Jun 13, 2025	Approximate Sample 18g / 60x55x5mm Sample consisted of: Grey fibre cement fragment	Chrysotile, amosite and crocidolite asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jun 23, 2025	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Jun 23, 2025	Indefinite

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

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Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1234275
Phone: 02 8245 0300
Fax:

Received: Jun 18, 2025 5:09 PM
Due: Jun 27, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail	Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD*	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254										X					
Sydney Laboratory - NATA # 1261 Site # 18217	X	X	X	X	X	X	X	X	X		X	X	X	X	X
External Laboratory															

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID												
1	BH02/MW01_0_0.1	Jun 13, 2025		Soil	S25-Jn0050852				X				X	X	X	X			X	
2	BH02/MW01_3_3.1	Jun 13, 2025		Soil	S25-Jn0050853					X	X			X						
3	BH02/MW01_7_7.1	Jun 13, 2025		Soil	S25-Jn0050854			X												
4	BH02/MW01_9.9_10	Jun 13, 2025		Soil	S25-Jn0050855			X												
5	BH02/MW01_0_0.3	Jun 13, 2025		Soil	S25-Jn0050856	X														
6	BH08_0_0.1	Jun 13, 2025		Soil	S25-Jn0050857								X	X		X			X	
7	BH08_2_2.1	Jun 13, 2025		Soil	S25-Jn0050858					X	X			X						
8	BH08_2.9_3	Jun 13, 2025		Soil	S25-Jn0050859			X												
9	BH08_0.3_0.5	Jun 13, 2025		Soil	S25-Jn0050860	X														
10	QC01_202506	Jun 13, 2025		Soil	S25-Jn0050861								X	X		X				

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	13																			
11	QC01_20250613_J	Jun 13, 2025		Soil	S25-Jn0050862									X					X	
12	QC01_20250613_AQ	Jun 13, 2025		Soil	S25-Jn0050863	X														
13	BH11/MW02_0_0.1	Jun 13, 2025		Soil	S25-Jn0050864					X	X		X	X			X		X	
14	BH11/MW02_3_3.1	Jun 13, 2025		Soil	S25-Jn0050865			X												
15	BH11/MW02_9.9_10	Jun 13, 2025		Soil	S25-Jn0050866					X	X			X						
16	BH11/MW02_0_0.3	Jun 13, 2025		Soil	S25-Jn0050867	X														
17	QC02_20250613_J	Jun 13, 2025		Soil	S25-Jn0050868			X												
18	BH09_0_0.1	Jun 16, 2025		Soil	S25-Jn0050869					X	X		X	X			X			
19	BH09_0_0.3	Jun 16, 2025		Soil	S25-Jn0050870	X														
20	BH10_0_0.1	Jun 16, 2025		Soil	S25-Jn0050871					X	X		X	X			X			

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
21	BH10_0_0.3	Jun 16, 2025		Soil	S25-Jn0050872	X														
22	BH07_0_0.1	Jun 16, 2025		Soil	S25-Jn0050873					X	X		X	X			X		X	
23	BH05_0_0.1	Jun 16, 2025		Soil	S25-Jn0050874					X	X		X	X			X			
24	BH05_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050875					X	X		X	X			X			
25	BH05_0_0.5	Jun 16, 2025		Soil	S25-Jn0050876	X														
26	BH04_0_0.1	Jun 16, 2025		Soil	S25-Jn0050877					X	X		X	X			X			
27	BH04_0_0.4	Jun 16, 2025		Soil	S25-Jn0050878	X														
28	BH01_0_0.1	Jun 16, 2025		Soil	S25-Jn0050879					X	X		X	X			X			
29	BH01_0_0.3	Jun 16, 2025		Soil	S25-Jn0050880	X														
30	BH06_0_0.1	Jun 16, 2025		Soil	S25-Jn0050881					X	X		X	X			X			
31	BH06_0_0.4	Jun 16, 2025		Soil	S25-Jn0050882	X														
32	BH03_0_0.1	Jun 16, 2025		Soil	S25-Jn0050883					X	X		X	X			X			
33	BH03_0_0.4	Jun 16, 2025		Soil	S25-Jn0050884	X														
34	QC01_20250616	Jun 16, 2025		Soil	S25-Jn0050885			X												
35	QC03_202506	Jun 16, 2025		Soil	S25-Jn0050886			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	16																			
36	QC01_20250616_AQ	Jun 16, 2025		Soil	S25-Jn0050887	X														
37	QC02_20250616	Jun 16, 2025		Soil	S25-Jn0050888								X	X		X				
38	BH13_0_0.1	Jun 17, 2025		Soil	S25-Jn0050889					X	X		X	X			X			
39	BH13_0_0.3	Jun 17, 2025		Soil	S25-Jn0050890	X														
40	BH12_0_0.1	Jun 17, 2025		Soil	S25-Jn0050891					X	X		X	X			X		X	
41	BH12_0_0.3	Jun 17, 2025		Soil	S25-Jn0050892	X														
42	BH12_FRAG	Jun 17, 2025		Building Materials	S25-Jn0050893		X													
43	BH14_0_0.1	Jun 17, 2025		Soil	S25-Jn0050894								X	X		X				
44	BH14_0_0.3	Jun 17, 2025		Soil	S25-Jn0050895	X														
45	BH15_0_0.1	Jun 17, 2025		Soil	S25-Jn0050896					X	X		X	X			X			
46	BH15_0_0.3	Jun 17, 2025		Soil	S25-Jn0050897	X														
47	BH17_0_0.1	Jun 17, 2025		Soil	S25-Jn0050898					X	X		X	X			X			
48	BH17_0_0.4	Jun 17, 2025		Soil	S25-Jn0050899	X														

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6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Auckland	Auckland (Focus)	Christchurch	Tauranga
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1234275
Phone: 02 8245 0300
Fax:

Received: Jun 18, 2025 5:09 PM
Due: Jun 27, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD*	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
49	BH20_0_0.1	Jun 17, 2025		Soil	S25-Jn0050900					X	X		X	X			X		X	
50	BH20_0_0.2	Jun 17, 2025		Soil	S25-Jn0050901	X														
51	BH19_0_0.8	Jun 17, 2025		Soil	S25-Jn0050902	X														
52	BH19_0_0.1	Jun 17, 2025		Soil	S25-Jn0050903								X	X		X			X	
53	BH19_FRAG	Jun 17, 2025		Building Materials	S25-Jn0050904		X													
54	BH18_0_0.1	Jun 17, 2025		Soil	S25-Jn0050905					X	X		X	X			X		X	
55	BH18_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050906				X	X	X			X	X					
56	BH18_0_0.2	Jun 17, 2025		Soil	S25-Jn0050907	X														
57	QC02_20250617	Jun 17, 2025		Soil	S25-Jn0050908			X												
58	QC01_20250617	Jun 17, 2025		Soil	S25-Jn0050909			X												
59	BH16_0_0.1	Jun 18, 2025		Soil	S25-Jn0050910					X	X		X	X			X			
60	BH16_3_3.1	Jun 18, 2025		Soil	S25-Jn0050911			X												
61	BH16_0_0.3	Jun 18, 2025		Soil	S25-Jn0050912	X														
62	BH21/MW03_	Jun 18, 2025		Soil	S25-Jn0050913					X	X		X	X			X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	0_0.1																			
63	BH21/MW03_3_3.1	Jun 18, 2025		Soil	S25-Jn0050914			X												
64	BH21/MW03_8_8.1	Jun 18, 2025		Soil	S25-Jn0050915			X												
65	BH21/MW03_9.9_10	Jun 18, 2025		Soil	S25-Jn0050916			X												
66	BH21/MW03_0_0.3	Jun 18, 2025		Soil	S25-Jn0050917	X														
67	RINSATE	Jun 17, 2025		Water	S25-Jn0050918					X		X	X				X		X	
68	BLANK	Jun 17, 2025		Water	S25-Jn0050919														X	
69	TS	Jun 18, 2025		Trip Spike (liquid)	S25-Jn0050920															X
70	TB	Jun 18, 2025		Trip Blank (liquid)	S25-Jn0050921													X		
71	BH02/MW01_0.3_0.4	Jun 13, 2025		Soil	S25-Jn0050922			X												
72	BH02/MW01_	Jun 13, 2025		Soil	S25-Jn0050923			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	0.5_0.6																			
73	BH02/MW01_1_1.1	Jun 13, 2025		Soil	S25-Jn0050924			X												
74	BH02/MW01_2_2.1	Jun 13, 2025		Soil	S25-Jn0050925			X												
75	BH02/MW01_4_4.1	Jun 13, 2025		Soil	S25-Jn0050926			X												
76	BH02/MW01_5_5.1	Jun 13, 2025		Soil	S25-Jn0050927			X												
77	BH02/MW01_6_6.1	Jun 13, 2025		Soil	S25-Jn0050928			X												
78	BH02/MW01_8_8.1	Jun 13, 2025		Soil	S25-Jn0050929			X												
79	BH02/MW01_9_9.1	Jun 13, 2025		Soil	S25-Jn0050930			X												
80	BH02/MW01_0.3_0.5	Jun 13, 2025		Soil	S25-Jn0050931	X														
81	BH08_0.3_0.4	Jun 13, 2025		Soil	S25-Jn0050932					X	X			X						

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
82	BH08_0.5_0.6	Jun 13, 2025		Soil	S25-Jn0050933			X												
83	BH08_1_1.1	Jun 13, 2025		Soil	S25-Jn0050934			X												
84	BH08_0_0.3	Jun 13, 2025		Soil	S25-Jn0050935	X														
85	BH11/MW02_0.3_0.4	Jun 13, 2025		Soil	S25-Jn0050936			X												
86	BH11/MW02_0.5_0.6	Jun 13, 2025		Soil	S25-Jn0050937			X												
87	BH11/MW02_1_1.1	Jun 13, 2025		Soil	S25-Jn0050938			X												
88	BH11/MW02_2_2.1	Jun 13, 2025		Soil	S25-Jn0050939			X												
89	BH11/MW02_4_4.1	Jun 13, 2025		Soil	S25-Jn0050940			X												
90	BH11/MW02_5_5.1	Jun 13, 2025		Soil	S25-Jn0050941			X												
91	BH11/MW02_6_6.1	Jun 13, 2025		Soil	S25-Jn0050942			X												
92	BH11/MW02_	Jun 13, 2025		Soil	S25-Jn0050943			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	7_7.1																			
93	BH11/MW02_8_8.1	Jun 13, 2025		Soil	S25-Jn0050944			X												
94	BH11/MW02_9_9.1	Jun 13, 2025		Soil	S25-Jn0050945			X												
95	BH09_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050946			X												
96	BH09_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050947			X												
97	BH09_0.9_1	Jun 16, 2025		Soil	S25-Jn0050948			X												
98	BH10_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050949			X												
99	BH10_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050950			X												
100	BH07_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050951			X												
101	BH07_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050952			X												
102	BH07_0.9_1	Jun 16, 2025		Soil	S25-Jn0050953			X												
103	BH07_0_0.4	Jun 16, 2025		Soil	S25-Jn0050954	X														
104	BH05_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050955			X												
105	BH05_0.9_1	Jun 16, 2025		Soil	S25-Jn0050956			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
106	BH04_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050957					X	X			X						
107	BH04_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050958			X												
108	BH01_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050959			X												
109	BH01_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050960			X												
110	BH01_0.9_1	Jun 16, 2025		Soil	S25-Jn0050961			X												
111	BH06_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050962					X	X			X						
112	BH06_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050963			X												
113	BH03_0.3_0.4	Jun 16, 2025		Soil	S25-Jn0050964			X												
114	BH03_0.5_0.6	Jun 16, 2025		Soil	S25-Jn0050965			X												
115	BH03_0.9_1	Jun 16, 2025		Soil	S25-Jn0050966			X												
116	QC01_20250616_J	Jun 16, 2025		Soil	S25-Jn0050967			X												
117	QC02_20250616_J	Jun 16, 2025		Soil	S25-Jn0050968			X												
118	QC04_20250616_J	Jun 16, 2025		Soil	S25-Jn0050969			X												
119	QC03_202506	Jun 16, 2025		Soil	S25-Jn0050970			X												

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1234275
Phone: 02 8245 0300
Fax:

Received: Jun 18, 2025 5:09 PM
Due: Jun 27, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD*	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
119	QC03_20250616_J	Jun 16, 2025		Soil	S25-Jn0050970															
120	BH13_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050971			X												
121	BH13_0.5_0.5	Jun 17, 2025		Soil	S25-Jn0050972			X												
122	BH12_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050973					X	X			X						
123	BH12_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050974			X												
124	BH14_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050975			X												
125	BH14_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050976			X												
126	BH14_0.9_1	Jun 17, 2025		Soil	S25-Jn0050977			X												
127	BH15_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050978					X	X			X						
128	BH15_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050979			X												
129	BH15_0.9_1	Jun 17, 2025		Soil	S25-Jn0050980			X												
130	BH17_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050981			X												
131	BH17_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050982			X												
132	BH17_0.9_1	Jun 17, 2025		Soil	S25-Jn0050983			X												
133	BH20_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050984			X												

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
134	BH20_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050985			X												
135	BH20_0.9_1	Jun 17, 2025		Soil	S25-Jn0050986			X												
136	BH19_0.3_0.4	Jun 17, 2025		Soil	S25-Jn0050987			X												
137	BH19_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050988					X	X			X						
138	BH19_1_1.1	Jun 17, 2025		Soil	S25-Jn0050989			X												
139	BH18_0.5_0.6	Jun 17, 2025		Soil	S25-Jn0050990			X												
140	QC04_20250617_J	Jun 17, 2025		Soil	S25-Jn0050991			X												
141	QC03_20250617_J	Jun 17, 2025		Soil	S25-Jn0050992			X												
142	QC02_20250617_J	Jun 17, 2025		Soil	S25-Jn0050993			X												
143	QC01_20250617_J	Jun 17, 2025		Soil	S25-Jn0050994			X												
144	BH11/MW02_FRAG	Jun 13, 2025		Building Materials	S25-Jn0050995		X													
145	BH16_0.3_0.4	Jun 18, 2025		Soil	S25-Jn0050996			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
146	BH16_0.5_0.6	Jun 18, 2025		Soil	S25-Jn0050997			X												
147	BH16_1_1.1	Jun 18, 2025		Soil	S25-Jn0050998			X												
148	BH16_2_2.1	Jun 18, 2025		Soil	S25-Jn0050999			X												
149	BH21/MW03_0.3_0.4	Jun 18, 2025		Soil	S25-Jn0051000			X												
150	BH21/MW03_0.5_0.6	Jun 18, 2025		Soil	S25-Jn0051001			X												
151	BH21/MW03_1_1.1	Jun 18, 2025		Soil	S25-Jn0051002								X	X		X				
152	BH21/MW03_2_2.1	Jun 18, 2025		Soil	S25-Jn0051003			X												
153	BH21/MW03_4_4.1	Jun 18, 2025		Soil	S25-Jn0051004			X												
154	BH21/MW03_5_5.1	Jun 18, 2025		Soil	S25-Jn0051005			X												
155	BH21/MW03_6_6.1	Jun 18, 2025		Soil	S25-Jn0051006			X												
156	BH21/MW03_	Jun 18, 2025		Soil	S25-Jn0051007			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254															X					
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X		X	X	X	X	X
	7_7.1																			
157	BH21/MW03_9_9.1	Jun 18, 2025		Soil	S25-Jn0051008			X												
158	QC01_20250618_J	Jun 18, 2025		Soil	S25-Jn0051009			X												
159	QC02_20250618_J	Jun 18, 2025		Soil	S25-Jn0051010			X												
160	BH13_0.9_1.0	Jun 18, 2025		Soil	S25-Jn0051386			X												
Test Counts						25	3	92	2	29	28	1	26	36	2	7	19	1	12	1

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report in blue indicates data provided by the customer that may impact the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%Asbestos	Estimated percentage of asbestos in a given matrix may be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**). This estimate is not NATA-accredited.
ACM	Asbestos Containing Materials. Asbestos in a non-asbestos matrix is typically presented in bonded (non-friable) condition. For the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material, such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g., by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total %w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004.
Dry	Sample is dried by heating before analysis.
DS	Dispersion Staining. The technique required for unequivocal identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos-containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material previously non-friable and severely degraded. For the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to distinguish visibly and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess the degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021), ISBN: 9780616667079.
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012), ISBN: 9780717665020
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
MMVF	Man-Made Vitreous Fibre - exhibiting isotropic characteristics, including glass fibres, glass wool, rock wool, slag wool, ceramic fibres and “bio-soluble fibres. NOTE: previously known as “synthetic mineral fibre” (SMF).
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified per AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004.
PCM	Phase Contrast Microscopy. This is used for fibre counting, according to the MFM.
PLM	Polarised Light Microscopy. It is used for fibre identification and residual analysis according to AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004.
Sampling	Unless otherwise stated, Eurofins are not responsible for sampling equipment or the sampling process.
SRA	Sample Receipt Advice.
Residual Analysis	An analytical procedure is used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix according to AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly Trace Analysis in AS 4964-2004.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
Inconclusive	Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according to AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004. It may include (but is not limited to) actinolite, anthophyllite, or tremolite asbestos. SEM/TEM is required for definitive identification.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average %w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Paul Arendse	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Outlook

5 DAY TAT ADDITIONAL ANALYSIS: FW: Eurofins Test Results - Report 1234275 : Site PAGEWOOD (69149)

From Andrew Black <Andrew.Black@eurofinsanz.com>
Date Wed 02/07/2025 12:42 PM
To SH_AU25_Enviro_Sample_NSW <EnviroSampleNSW@eurofinsanz.com>

1 attachment (86 KB)
RE: Eurofins Test Results - Report 1234275 : Site PAGEWOOD (69149);

Andrew Black
Analytical Services Manager

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Mobile: +61 410 220 750
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Website: eurofins.com.au/environmental-testing
https://www.eurofins-estore.com.au/

Please note my work hours are 8:30am-5:30pm, anything outside of that I will get to the next day. Contact evening shift ASM for anything urgent.

From: Nicole Bennett <nbennett@jbsg.com.au>
Sent: Wednesday, 2 July 2025 12:03 PM

To: Nileshni Goundar <Nileshni.Goundar@eurofinsanz.com>; Andrew Black <Andrew.Black@eurofinsanz.com>
Cc: Lauren Holmes <lholmes@jbsg.com.au>; JBSG Labresults <jbsglabresults@jbsg.com.au>
Subject: RE: Eurofins Test Results - Report 1234275 : Site PAGEWOOD (69149)

> **Unverified Sender:** The sender of this email has not been verified. Review the content of the message carefully and verify the identity of the sender before acting on this email: replying, opening attachments or clicking links.

Hi Nileshni,

Please analyse the following samples:

- BH01_0-0.1 for TCLP for heavy metals and PAHS
- BH03_0-0.1 for TCLP for heavy metals
- QC01_20250617_J for PFAS

Thanks,
Nicole

Nicole Bennett | Project Scientist | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0426 865 392 | E: nbennett@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Nileshni Goundar <EET-ELVIS@eurofinsanz.com>
Sent: Friday, 27 June 2025 6:20 PM
To: Lauren Holmes <lholmes@jbsg.com.au>
Cc: JBSG Labresults <jbsglabresults@jbsg.com.au>; Nicole Bennett <nbennett@jbsg.com.au>
Subject: Eurofins Test Results - Report 1234275 : Site PAGEWOOD (69149)

Please find the attached reports.

Kind Regards,
Nileshni (Neena) Goundar
Assistant Analytical Services Manager
*Please note my work hours are **2pm-10pm,** anything outside of that please contact your ASM for anything urgent.*

Eurofins Environment Testing Australia Pty Ltd

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Girraween, NSW, 2145

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: Lauren Holmes
Project name: ADDITIONAL: PAGEWOOD
Project ID: 69149
Turnaround time: 5 Day
Date/Time received Jul 2, 2025 12:42 PM
Eurofins reference 1239729

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : -.9 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: Andrew.Black@eurofinsanz.com

Results will be delivered electronically via email to Lauren Holmes - lholmes@jbsg.com.au.

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ABN: 50 005 085 521

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: ADDITIONAL: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1239729
Phone: 02 8245 0300
Fax:

Received: Jul 2, 2025 12:42 PM
Due: Jul 9, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Polycyclic Aromatic Hydrocarbons	USA Leaching Procedure	Metals M8	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	BH01_0-0.1	Jun 13, 2025		US Leachate	S25-Jl0006994	X	X	X		
2	BH03_0-0.1	Jun 13, 2025		US Leachate	S25-Jl0006995		X	X		
3	QC01_20250617_J	Jun 13, 2025		Soil	S25-Jl0006996				X	X
Test Counts						1	2	2	1	1

JBS & G Australia (NSW) P/L
Level 8, 179 Elizabeth St
Sydney
NSW 2000

Attention: **Lauren Holmes**

Report **1239729-L**
Project name ADDITIONAL: PAGEWOOD
Project ID 69149
Received Date Jul 02, 2025

Client Sample ID			**BH01_0-0.1**	**BH03_0-0.1**
Sample Matrix			**US Leachate**	**US Leachate**
Eurofins Sample No.			**S25-JI0006994**	**S25-JI0006995**
Date Sampled			**Jun 13, 2025**	**Jun 13, 2025**
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.001	mg/L	< 0.001	-
Acenaphthylene	0.001	mg/L	< 0.001	-
Anthracene	0.001	mg/L	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-
Chrysene	0.001	mg/L	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-
Fluoranthene	0.001	mg/L	< 0.001	-
Fluorene	0.001	mg/L	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-
Naphthalene	0.001	mg/L	< 0.001	-
Phenanthrene	0.001	mg/L	< 0.001	-
Pyrene	0.001	mg/L	< 0.001	-
Total PAH*	0.001	mg/L	< 0.001	-
2-Fluorobiphenyl (surr.)	1	%	INT	-
p-Terphenyl-d14 (surr.)	1	%	68	-
Heavy Metals				
Arsenic	0.01	mg/L	0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005
Chromium	0.05	mg/L	< 0.05	< 0.05
Copper	0.05	mg/L	< 0.05	< 0.05
Lead	0.01	mg/L	0.26	0.43
Mercury	0.001	mg/L	< 0.001	< 0.001
Nickel	0.01	mg/L	< 0.01	< 0.01
Zinc	0.05	mg/L	0.60	0.56
USA Leaching Procedure				
Leachate Fluid[C01]		comment	1.0	1.0
pH (initial)	0.1	pH Units	7.9	7.6
pH (off)	0.1	pH Units	4.9	4.9
pH (USA HCl addition)	0.1	pH Units	1.6	1.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jul 03, 2025	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Jul 03, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
USA Leaching Procedure	Sydney	Jul 03, 2025	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: ADDITIONAL: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1239729
Phone: 02 8245 0300
Fax:

Received: Jul 2, 2025 12:42 PM
Due: Jul 9, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Polycyclic Aromatic Hydrocarbons	USA Leaching Procedure	Metals M8	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	BH01_0-0.1	Jun 13, 2025		US Leachate	S25-Jl0006994	X	X	X		
2	BH03_0-0.1	Jun 13, 2025		US Leachate	S25-Jl0006995		X	X		
3	QC01_20250617_J	Jun 13, 2025		Soil	S25-Jl0006996				X	X
Test Counts						1	2	2	1	1

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N25-Jl0004438	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	N25-Jl0004438	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	N25-Jl0004438	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	N25-Jl0004438	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	N25-Jl0004438	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Mercury	N25-Jl0004438	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	N25-Jl0004438	NCP	mg/L	0.01	0.01	4.0	30%	Pass	
Zinc	N25-Jl0004438	NCP	mg/L	1.3	1.3	2.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised by:

Andrew Black	Analytical Services Manager
Mickael Ros	Senior Analyst-Metal
Roopesh Rangarajan	Senior Analyst-Organic
Ryan Phillips	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

JBS & G Australia (NSW) P/L
Level 8, 179 Elizabeth St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Lauren Holmes**

Report **1239729-S**
Project name ADDITIONAL: PAGEWOOD
Project ID 69149
Received Date Jul 02, 2025

Client Sample ID			**QC01_20250617_J**
Sample Matrix			**Soil**
Eurofins Sample No.			**S25-Jl0006996**
Date Sampled			**Jun 13, 2025**
Test/Reference	LOR	Unit	
Sample Properties			
% Moisture	1	%	11
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5
13C4-PFBA (surr.)	1	%	91
13C5-PFPeA (surr.)	1	%	102
13C5-PFHxA (surr.)	1	%	108
13C4-PFHpA (surr.)	1	%	106
13C8-PFOA (surr.)	1	%	96
13C5-PFNA (surr.)	1	%	102
13C6-PFDA (surr.)	1	%	101
13C2-PFUnDA (surr.)	1	%	102
13C2-PFDoDA (surr.)	1	%	122
13C2-PFTeDA (surr.)	1	%	130
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10

Client Sample ID			QC01_20250617_J
Sample Matrix			**Soil**
Eurofins Sample No.			**S25-Jl0006996**
Date Sampled			**Jun 13, 2025**
Test/Reference	LOR	Unit	
Perfluoroalkyl sulfonamido substances			
13C8-FOSA (surr.)	1	%	92
D3-N-MeFOSA (surr.)	1	%	106
D5-N-EtFOSA (surr.)	1	%	102
D7-N-MeFOSE (surr.)	1	%	82
D9-N-EtFOSE (surr.)	1	%	78
D5-N-EtFOSAA (surr.)	1	%	105
D3-N-MeFOSAA (surr.)	1	%	91
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5
13C3-PFBS (surr.)	1	%	117
18O2-PFHxS (surr.)	1	%	94
13C8-PFOS (surr.)	1	%	103
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5
13C2-4:2 FTSA (surr.)	1	%	65
13C2-6:2 FTSA (surr.)	1	%	91
13C2-8:2 FTSA (surr.)	1	%	195
13C2-10:2 FTSA (surr.)	1	%	137
PFASs Summations			
Sum (PFHxS + PFOS)*	5	ug/kg	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
% Moisture	Sydney	Jul 02, 2025	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Sydney	Jul 03, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Sydney	Jul 03, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Sydney	Jul 03, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Sydney	Jul 03, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: ADDITIONAL: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1239729
Phone: 02 8245 0300
Fax:

Received: Jul 2, 2025 12:42 PM
Due: Jul 9, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Polycyclic Aromatic Hydrocarbons	USA Leaching Procedure	Metals M8	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	BH01_0-0.1	Jun 13, 2025		US Leachate	S25-Jl0006994	X	X	X		
2	BH03_0-0.1	Jun 13, 2025		US Leachate	S25-Jl0006995		X	X		
3	QC01_20250617_J	Jun 13, 2025		Soil	S25-Jl0006996				X	X
Test Counts						1	2	2	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Perfluoroalkyl sulfonic acids (PFSAs)									
Perfluorononanesulfonic acid (PFNS)			ug/kg	< 5			5	Pass	
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)									
Perfluorononanesulfonic acid (PFNS)			%	72			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorononanesulfonic acid (PFNS)	S25-Jl0009495	NCP	%	81			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Jl0006996	CP	%	11	12	7.0	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorononanesulfonic acid (PFNS)	S25-Jl0005036	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Andrew Black	Analytical Services Manager
Ryan Phillips	Senior Analyst-Sample Properties
Roopesh Rangarajan	Senior Analyst-PFAS

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Outlook

RE: Eurofins Test Results - Report 1234275 : Site PAGEWOOD (69149)

From Lauren Holmes <lholmes@jbsg.com.au>
Date Tue 15/07/2025 11:11 AM
To Nileshni Goundar <Nileshni.Goundar@eurofinsanz.com>
Cc Andrew Black <Andrew.Black@eurofinsanz.com>; Nicole Bennett <nbennett@jbsg.com.au>

Hi Nileshni,

Could you please conduct additional analysis for BH03_0-0.1 – **Chromium VI** only? 24 hr TAT please.

Thanks,
Lauren

Please note I work Tuesday, Wednesday and Thursday only.

Lauren Holmes | Associate | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0433 420 590 | E: lholmes@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Nileshni Goundar <EET-ELVIS@eurofinsanz.com>
Sent: Friday, 27 June 2025 6:20 PM
To: Lauren Holmes <lholmes@jbsg.com.au>
Cc: JBSG Labresults <jbsglabresults@jbsg.com.au>; Nicole Bennett <nbennett@jbsg.com.au>
Subject: Eurofins Test Results - Report 1234275 : Site PAGEWOOD (69149)

Please find the attached reports.

Kind Regards,
Nileshni (Neena) Goundar
Assistant Analytical Services Manager
*Please note my work hours are **2pm-10pm,** anything outside of that please contact your ASM for anything urgent.*

Eurofins Environment Testing Australia Pty Ltd
179 Magowar Road
Girraween, NSW, 2145

Email: Nileshni.Goundar@eurofinsanz.com
Website: www.eurofins.com.au/environmental-testing

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www.eurofins.com.au EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: Lauren Holmes
Project name: ADDITIONAL: PAGEWOOD
Project ID: 69149
Turnaround time: 1 Day
Date/Time received Jul 15, 2025 1:27 PM
Eurofins reference 1244298

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : -.9 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: Andrew.Black@eurofinsanz.com

Results will be delivered electronically via email to Lauren Holmes - lholmes@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: ADDITIONAL: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1244298
Phone: 02 8245 0300
Fax:

Received: Jul 15, 2025 1:27 PM
Due: Jul 16, 2025
Priority: 1 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Chromium (hexavalent)	Moisture Set
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	BH03_0-0.1	Jun 13, 2025		Soil	S25-Jl0038720	X	X
Test Counts						1	1

JBS & G Australia (NSW) P/L
Level 8, 179 Elizabeth St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Lauren Holmes**

Report **1244298-S**
Project name ADDITIONAL: PAGEWOOD
Project ID 69149
Received Date Jul 15, 2025

Client Sample ID			**BH03_0-0.1**
Sample Matrix			**Soil**
Eurofins Sample No.			**S25-JI0038720**
Date Sampled			**Jun 13, 2025**
Test/Reference	LOR	Unit	
Chromium (hexavalent)	1	mg/kg	< 1
Sample Properties			
% Moisture	1	%	26

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Chromium (hexavalent)	Sydney	Jul 15, 2025	28 Days
- Method: In-house method E057.2			
% Moisture	Sydney	Jul 15, 2025	14 Days
- Method: LTM-GEN-7080 Moisture			

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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Priority: 1 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

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SRA	Sample Receipt Advice
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TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
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PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

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2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	107			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	S25-Jl0038720	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Jl0038754	NCP	%	24	26	9.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Andrew Black	Analytical Services Manager
Ryan Phillips	Senior Analyst-Inorganic
Ryan Phillips	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Envirolab 1 of 2

Chain of Custody

JBS&G

PROJECT NO.: 69149
PROJECT NAME: Pagewood
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Nicole Bennett
QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ....Lhaines.....@jbsg.com.au; (3) ....NBENNETT....@jbsg.com.au, jbsglabresults@...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	TRH/BTEX	OCPs/PCBs	PAHs	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	QA01_20250613_	Soil	13/6		J + ice			X							
2	_J				PFAS + ice							X			
3	_AQ				bag		X							X	
4	QA02_20250613_J				PFAS + ice							X			
5	QA01_20250616		16/6		Jar + ice			X							
6	_J				PFAS + ice										
7	_AQ				bag		X							X	
8	QA02_20250616				J + ice			X							
9	_J				PFAS + ice										
10	QA03_20250616				J + ice			X							
11	_J				PFAS + ice										
W/R	QA04_20250616				J + ice										
12	_J				PFAS + ice										
13	QA01_20250617		17/6		J + ice			X							
14	QA02_20250617							X							
15	QA01_20250617_J				PFAS + ice										
16	QA02_														
17	QA03_														
18	QA04_														

ENVIROLAB GROUP
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 283658
Date Received: 18/6/25
Time Received: 1715
Received By: CH
Temp: Cool/Ambient 5°C.
Cooling: Ice/Icepack
Security: Intact/Broken/None

#283658
CH
18/6/25

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nicole B DATE: 18/6/25	CONSIGNMENT NOTE NO.	NAME: Christine Ho	COOLER SEAL – Yes ..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/6/25 1715	
		OF: ECS SYD	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes ..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Envirolab 2 of 2

Chain of Custody

JBS&G

PROJECT NO.: 69149	LABORATORY BATCH NO.:
PROJECT NAME: Pagewood	SAMPLERS: Nicole Bennett
DATE NEEDED BY: STD TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ...Lholmes.....@jbsg.com.au; (3) .....NBENNETT.@jbsg.com.au ; jbsglabresults@...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	TRH/BTEX	OCPs/PCBs	PAHs	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
19	QA01_20250618-J	Soil	18/6		PFAS Ice										
20	QA02_	↓	↓		↓										

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 338558
Date Received: 18/6/25
Time Received: 1715
Received By: CL
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [redacted] DATE: 18/6/25	CONSIGNMENT NOTE NO.	NAME: Christine Ho	COOLER SEAL – Yes..... No ..... Intact..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/6/25 1715	COOLER TEMP .....1.1..... deg C
		OF: ECS STH	
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	L Holmes

Sample Login Details

Your reference	69149
Envirolab Reference	383658
Date Sample Received	18/06/2025
Date Instructions Received	19/06/2025
Date Results Expected to be Reported	25/06/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	20 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	5
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Sample not received: QA04_20250616

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	Acid Extractable metalsin soil	Asbestos ID - soils NEPM - ASB-001	PFAS in Soils Extended	On Hold
QA01_20250613	✓			
QA01_20250613_J			✓	
QA01_20250613_AQ		✓		
QA02_20250613_J			✓	
QA01_20250616	✓			
QA01_20250616_J				✓
QA01_20250616_AQ		✓		
QA02_20250616	✓			
QA02_20250616_J				✓
QA03_20250616	✓			
QA03_20250616_J				✓
QA04_20250616_J				✓
QA01_20250617	✓			
QA02_20250617	✓			
QA01_20250617_J				✓
QA02_20250617_J				✓
QA03_20250617_J				✓
QA04_20250617_J				✓
QA01_20250618_J				✓
QA02_20250618_J				✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 383658

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	L Holmes
Address	Level 8, 179 Elizabeth St, Sydney, NSW, 2000

Sample Details

Your Reference	**69149**
Number of Samples	20 Soil
Date samples received	18/06/2025
Date completed instructions received	23/06/2025

Analysis Details

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

Samples were analysed as received from the client. 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.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	27/06/2025
Date of Issue	26/06/2025

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean
Authorised by Asbestos Approved Signatory: Nyovan Moonean

Results Approved By
Amanda Chui, LC/Air Toxics Supervisor
Giovanni Agosti, Group Technical Manager
Jack Wallis, Senior Chemist
Nyovan Moonean, Asbestos Approved Identifier/Counter
Timothy Toll, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		383658-1	383658-8
Your Reference	UNITS	QA01_20250613	QA02_20250616
Date Sampled		13/06/2025	16/06/2025
Type of sample		Soil	Soil
Date extracted	-	20/06/2025	20/06/2025
Date analysed	-	25/06/2025	25/06/2025
TRH C_6 - C_9	mg/kg	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
Naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	77	79

svTRH (C10-C40) in Soil			
Our Reference		383658-1	383658-8
Your Reference	UNITS	QA01_20250613	QA02_20250616
Date Sampled		13/06/2025	16/06/2025
Type of sample		Soil	Soil
Date extracted	-	20/06/2025	20/06/2025
Date analysed	-	25/06/2025	25/06/2025
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surrogate o-Terphenyl	%	77	89

PAHs in Soil			
Our Reference		383658-1	383658-8
Your Reference	UNITS	QA01_20250613	QA02_20250616
Date Sampled		13/06/2025	16/06/2025
Type of sample		Soil	Soil
Date extracted	-	24/06/2025	24/06/2025
Date analysed	-	25/06/2025	25/06/2025
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	0.5
Benzo(a)pyrene	mg/kg	<0.05	0.3
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.2
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.2
Total +ve PAH's	mg/kg	<0.05	3.3
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	0.5
Surrogate p-Terphenyl-d14	%	95	96

Organochlorine Pesticides in soil			
Our Reference		383658-1	383658-8
Your Reference	UNITS	QA01_20250613	QA02_20250616
Date Sampled		13/06/2025	16/06/2025
Type of sample		Soil	Soil
Date extracted	-	24/06/2025	24/06/2025
Date analysed	-	25/06/2025	25/06/2025
alpha-BHC	mg/kg	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
delta-BHC	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
Endosulfan I	mg/kg	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1
Total Positive Aldrin+Dieldrin	mg/kg	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	97	100

PCBs in Soil			
Our Reference		383658-1	383658-8
Your Reference	UNITS	QA01_20250613	QA02_20250616
Date Sampled		13/06/2025	16/06/2025
Type of sample		Soil	Soil
Date extracted	-	24/06/2025	24/06/2025
Date analysed	-	25/06/2025	25/06/2025
Aroclor 1016	mg/kg	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	93	95

Acid Extractable metals in soil			
Our Reference		383658-1	383658-8
Your Reference	UNITS	QA01_20250613	QA02_20250616
Date Sampled		13/06/2025	16/06/2025
Type of sample		Soil	Soil
Date prepared	-	20/06/2025	20/06/2025
Date analysed	-	24/06/2025	24/06/2025
Arsenic	mg/kg	<4	5
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	<1	10
Copper	mg/kg	<1	25
Lead	mg/kg	<1	100
Mercury	mg/kg	<0.1	0.1
Nickel	mg/kg	<1	6
Zinc	mg/kg	<1	110

Moisture				
Our Reference		383658-1	383658-2	383658-8
Your Reference	UNITS	QA01_20250613	QA01_20250613_J	QA02_20250616
Date Sampled		13/06/2025	13/06/2025	16/06/2025
Type of sample		Soil	Soil	Soil
Date prepared	-	20/06/2025	20/06/2025	20/06/2025
Date analysed	-	23/06/2025	23/06/2025	23/06/2025
Moisture	%	18	18	20

Asbestos ID - soils NEPM - ASB-001			
Our Reference		383658-3	383658-7
Your Reference	UNITS	QA01_20250613_AQ	QA01_20250616_AQ
Date Sampled		13/06/2025	16/06/2025
Type of sample		Soil	Soil
Date analysed	-	24/06/2025	24/06/2025
Sample mass tested	g	843.65	874.51
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–
FA and AF Estimation*	g	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001
Asbestos comments	-	Nil	Nil

PFAS in Soils Extended		
Our Reference		383658-2
Your Reference	UNITS	QA01_20250613_J
Date Sampled		13/06/2025
Type of sample		Soil
Date prepared	-	23/06/2025
Date analysed	-	24/06/2025
Perfluorobutanesulfonic acid	µg/kg	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1
Perfluorodecanesulfonic acid	µg/kg	<0.2
Perfluorobutanoic acid	µg/kg	<0.2
Perfluoropentanoic acid	µg/kg	<0.2
Perfluorohexanoic acid	µg/kg	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1
Perfluorononanoic acid	µg/kg	<0.1
Perfluorodecanoic acid	µg/kg	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5
Perfluorododecanoic acid	µg/kg	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5
Perfluorotetradecanoic acid	µg/kg	<5
4:2 FTS	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.2
10:2 FTS	µg/kg	<0.2
Perfluorooctane sulfonamide	µg/kg	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1
N-Ethyl perfluorooctanesulfon amide	µg/kg	<1
N-Me perfluorooctanesulfonamid oethanol	µg/kg	<1
N-Et perfluorooctanesulfonamid oethanol	µg/kg	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
EtPerfluorooctanesulf amid oacetic acid	µg/kg	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	92
Surrogate $^{13}C_2$ *PFOA*	%	103
Extracted ISTD $^{13}C_3$ *PFBS*	%	84
Extracted ISTD $^{18}O_2$ *PFHxS*	%	94
Extracted ISTD $^{13}C_4$ *PFOS*	%	89
Extracted ISTD $^{13}C_4$ *PFBA*	%	97

PFAS in Soils Extended		
Our Reference		383658-2
Your Reference	UNITS	QA01_20250613_J
Date Sampled		13/06/2025
Type of sample		Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	92
Extracted ISTD $^{13}C_2$ *PFHxA*	%	87
Extracted ISTD $^{13}C_4$ *PFHpA*	%	86
Extracted ISTD $^{13}C_4$ *PFOA*	%	98
Extracted ISTD $^{13}C_5$ *PFNA*	%	97
Extracted ISTD $^{13}C_2$ *PFDA*	%	91
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	91
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	99
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	117
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	97
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	100
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	99
Extracted ISTD $^{13}C_8$ *FOSA*	%	100
Extracted ISTD d_3 *N MeFOSA*	%	92
Extracted ISTD d_5 *N EtFOSA*	%	94
Extracted ISTD d_7 *N MeFOSE*	%	90
Extracted ISTD d_9 *N EtFOSE*	%	85
Extracted ISTD d_3 *N MeFOSAA*	%	103
Extracted ISTD d_5 *N EtFOSAA*	%	96
Total Positive PFHxS & PFOS	µg/kg	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1
Total Positive PFAS	µg/kg	<0.1

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. NOTE#1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF relative to the sample mass tested) NOTE#2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES. Total Phosphate determined stochiometrically from Phosphorus (assumed to be present as Phosphate). Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Metals-021	Determination of Mercury by Cold Vapour AAS.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

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	-			20/06/2025	[NT]	[NT]	[NT]	[NT]	20/06/2025	[NT]
Date analysed	-			25/06/2025	[NT]	[NT]	[NT]	[NT]	25/06/2025	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	102	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	101	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	100	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	101	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	101	[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	-			24/06/2025	[NT]	[NT]	[NT]	[NT]	24/06/2025	[NT]
Date analysed	-			25/06/2025	[NT]	[NT]	[NT]	[NT]	25/06/2025	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	117	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	109	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	117	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	109	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	76	[NT]	[NT]	[NT]	[NT]	84	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			24/06/2025	[NT]	[NT]	[NT]	[NT]	24/06/2025	[NT]
Date analysed	-			25/06/2025	[NT]	[NT]	[NT]	[NT]	25/06/2025	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	106	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	104	[NT]	[NT]	[NT]	[NT]	108	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			24/06/2025	[NT]	[NT]	[NT]	[NT]	24/06/2025	[NT]
Date analysed	-			25/06/2025	[NT]	[NT]	[NT]	[NT]	25/06/2025	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	122	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	124	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	107	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			24/06/2025	[NT]	[NT]	[NT]	[NT]	24/06/2025	[NT]
Date analysed	-			25/06/2025	[NT]	[NT]	[NT]	[NT]	25/06/2025	[NT]
Aroclor 1016	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	g	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Aroclor 1260	mg/kg	0.1	Org-021/022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	101	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			20/06/2025	1	20/06/2025	20/06/2025		20/06/2025	[NT]
Date analysed	-			24/06/2025	1	24/06/2025	24/06/2025		24/06/2025	[NT]
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	108	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	99	[NT]
Chromium	mg/kg	1	Metals-020	<1	1	<1	<1	0	101	[NT]
Copper	mg/kg	1	Metals-020	<1	1	<1	<1	0	103	[NT]
Lead	mg/kg	1	Metals-020	<1	1	<1	<1	0	101	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	105	[NT]
Nickel	mg/kg	1	Metals-020	<1	1	<1	<1	0	100	[NT]
Zinc	mg/kg	1	Metals-020	<1	1	<1	<1	0	96	[NT]

QUALITY CONTROL: PFAS in Soils Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			23/06/2025	[NT]	[NT]	[NT]	[NT]	23/06/2025	[NT]
Date analysed	-			24/06/2025	[NT]	[NT]	[NT]	[NT]	24/06/2025	[NT]
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	106	[NT]
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	95	[NT]
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	92	[NT]
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	108	[NT]
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	117	[NT]
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	98	[NT]
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	100	[NT]
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	92	[NT]
4:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	104	[NT]
10:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	96	[NT]
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
N-Ethyl perfluorooctanesulfon amide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
N-Me perfluorooctanesulfonamid oethanol	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
N-Et perfluorooctanesulfonamid oethanol	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	111	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	97	[NT]
EtPerfluorooctanesulf amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	89	[NT]	[NT]	[NT]	[NT]	92	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	104	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: PFAS in Soils Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-029	89	[NT]	[NT]	[NT]	[NT]	89	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	96	[NT]	[NT]	[NT]	[NT]	93	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	92	[NT]	[NT]	[NT]	[NT]	88	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	87	[NT]	[NT]	[NT]	[NT]	86	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	87	[NT]	[NT]	[NT]	[NT]	90	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	96	[NT]	[NT]	[NT]	[NT]	93	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	92	[NT]	[NT]	[NT]	[NT]	91	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	91	[NT]	[NT]	[NT]	[NT]	89	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	107	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	84	[NT]	[NT]	[NT]	[NT]	89	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	93	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	91	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD d_5 *N EtFOSA*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	89	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	92	[NT]	[NT]	[NT]	[NT]	92	[NT]

QUALITY CONTROL: PFAS in Soils Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	89	[NT]	[NT]	[NT]	[NT]	85	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	97	[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.

Report Comments

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

Anna Bui

From: Lauren Holmes <lholmes@jbsg.com.au>
Sent: Wednesday, 2 July 2025 12:12 PM
To: Greta Petzold; Nicole Bennett; Envirolab Sydney Sample Receipt
Cc: JBSG Labresults; S&G Labresults; AdminNSW
Subject: RE: Results for Registration 383658 69149

Hi Greta,

Yes extended suite, standard LOR please.

Thanks,
Lauren

EJ REF: 383658 A
TAT: STANDARD
DUE: 9/7/25
AB.

Please note I work Tuesday, Wednesday and Thursday only.

Lauren Holmes | Associate | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0433 420 590 | E: lholmes@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Greta Petzold <GPetzold@envirolab.com.au>
Sent: Wednesday, 2 July 2025 12:09 PM
To: Nicole Bennett <nbennett@jbsg.com.au>; Envirolab Sydney Sample Receipt <Samplereceipt@envirolab.com.au>
Cc: JBSG Labresults <jbsglabresults@jbsg.com.au>; S&G Labresults <labresults@jbsg.com.au>; AdminNSW <adminNSW@jbsg.com.au>; Lauren Holmes <lholmes@jbsg.com.au>
Subject: RE: Results for Registration 383658 69149

Hi Nicole,

No worries. Is that for extended suite?

@Envirolab Sydney Sample Receipt A- job please

Kind Regards,

Greta Petzold | Operations Manager | Envirolab Services

Great Science. Great Service.

12 Ashley Street Chatswood NSW 2067
T 612 9910 6200
E GPetzold@envirolab.com.au | **W** www.envirolab.com.au

Follow us on: LinkedIn | Facebook | Twitter

Samples will be analysed per our T&C's.

From: Nicole Bennett <nbennett@jbsg.com.au>
Sent: Wednesday, 2 July 2025 12:03 PM
To: Greta Petzold <GPetzold@envirolab.com.au>
Cc: JBSG Labresults <jbsglabresults@jbsg.com.au>; S&G Labresults <labresults@jbsg.com.au>; AdminNSW <adminNSW@jbsg.com.au>; Lauren Holmes <lholmes@jbsg.com.au>
Subject: RE: Results for Registration 383658 69149

CAUTION: This email originated from outside of the organisation. Do not act on instructions, click links or open attachments unless you recognise the sender and know the content is authentic and safe.

Hi Greta,

Please analyse the following samples:
(S - QA01_20250617_J for PFAS

Thanks,
Nicole

Nicole Bennett | Project Scientist | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0426 865 392 | E: nbennett@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Greta Petzold <GPetzold@envirolab.com.au>
Sent: Thursday, 26 June 2025 4:43 PM
To: JBSG Labresults <jbsglabresults@jbsg.com.au>; S&G Labresults <labresults@jbsg.com.au>; Nicole Bennett <nbennett@jbsg.com.au>; AdminNSW <adminNSW@jbsg.com.au>; Lauren Holmes <lholmes@jbsg.com.au>
Subject: Results for Registration 383658 69149

[EXTERNAL EMAIL]** Stop and think before opening attachments, clicking or responding.

Please refer to attached for:
a copy of the Certificate of Analysis
a copy of the COC/paperwork received from you
ESDAT Extracts
an Excel or .csv file containing the results
a copy of the Invoice

Please note that a hard copy will not be posted.

Enquiries should be made directly to:
customerservice@envirolab.com.au

To view information on uncertainty guidelines click here

How did we do? Send Feedback

Kind Regards,

Greta Petzold | Operations Manager | Envirolab Services

Great Science. Great Service.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	L Holmes

Sample Login Details

Your reference	69149
Envirolab Reference	383658-A
Date Sample Received	18/06/2025
Date Instructions Received	02/07/2025
Date Results Expected to be Reported	09/07/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	Additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	5
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	PFAS in Soils Extended	On Hold
QA01_20250613		✓
QA01_20250613_J		✓
QA01_20250613_AQ		✓
QA02_20250613_J		✓
QA01_20250616		✓
QA01_20250616_J		✓
QA01_20250616_AQ		✓
QA02_20250616		✓
QA02_20250616_J		✓
QA03_20250616		✓
QA03_20250616_J		✓
QA04_20250616_J		✓
QA01_20250617		✓
QA02_20250617		✓
QA01_20250617_J	✓	
QA02_20250617_J		✓
QA03_20250617_J		✓
QA04_20250617_J		✓
QA01_20250618_J		✓
QA02_20250618_J		✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 383658-A

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	L Holmes
Address	Level 8, 179 Elizabeth St, Sydney, NSW, 2000

Sample Details

Your Reference	**69149**
Number of Samples	Additional analysis
Date samples received	18/06/2025
Date completed instructions received	02/07/2025

Analysis Details

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

Samples were analysed as received from the client. 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	09/07/2025
Date of Issue	08/07/2025

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Jack Wallis, Senior Chemist
Sean McAlary, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

PFAS in Soils Extended		
Our Reference		383658-A-15
Your Reference	UNITS	QA01_20250617_J
Date Sampled		17/06/2025
Type of sample		Soil
Date prepared	-	04/07/2025
Date analysed	-	04/07/2025
Perfluorobutanesulfonic acid	µg/kg	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	3.4
Perfluorodecanesulfonic acid	µg/kg	<0.2
Perfluorobutanoic acid	µg/kg	<0.2
Perfluoropentanoic acid	µg/kg	<0.2
Perfluorohexanoic acid	µg/kg	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	0.1
Perfluorononanoic acid	µg/kg	<0.1
Perfluorodecanoic acid	µg/kg	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5
Perfluorododecanoic acid	µg/kg	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5
Perfluorotetradecanoic acid	µg/kg	<5
4:2 FTS	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.2
10:2 FTS	µg/kg	<0.2
Perfluorooctane sulfonamide	µg/kg	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1
N-Ethyl perfluorooctanesulfon amide	µg/kg	<1
N-Me perfluorooctanesulfonamid oethanol	µg/kg	<1
N-Et perfluorooctanesulfonamid oethanol	µg/kg	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
EtPerfluorooctanesulf amid oacetic acid	µg/kg	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	106
Surrogate $^{13}C_2$ *PFOA*	%	106
Extracted ISTD $^{13}C_3$ *PFBS*	%	92
Extracted ISTD $^{18}O_2$ *PFHxS*	%	95
Extracted ISTD $^{13}C_4$ *PFOS*	%	96
Extracted ISTD $^{13}C_4$ *PFBA*	%	97

PFAS in Soils Extended		
Our Reference		383658-A-15
Your Reference	UNITS	QA01_20250617_J
Date Sampled		17/06/2025
Type of sample		Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	96
Extracted ISTD $^{13}C_2$ *PFHxA*	%	87
Extracted ISTD $^{13}C_4$ *PFHpA*	%	89
Extracted ISTD $^{13}C_4$ *PFOA*	%	94
Extracted ISTD $^{13}C_5$ *PFNA*	%	93
Extracted ISTD $^{13}C_2$ *PFDA*	%	94
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	92
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	87
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	110
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	94
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	105
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	110
Extracted ISTD $^{13}C_8$ *FOSA*	%	98
Extracted ISTD d_3 *N MeFOSA*	%	93
Extracted ISTD d_5 *N EtFOSA*	%	95
Extracted ISTD d_7 *N MeFOSE*	%	93
Extracted ISTD d_9 *N EtFOSE*	%	86
Extracted ISTD d_3 *N MeFOSAA*	%	97
Extracted ISTD d_5 *N EtFOSAA*	%	107
Total Positive PFHxS & PFOS	µg/kg	3.4
Total Positive PFOS & PFOA	µg/kg	3.5
Total Positive PFAS	µg/kg	3.5

Moisture		
Our Reference		383658-A-15
Your Reference	UNITS	QA01_20250617_J
Date Sampled		17/06/2025
Type of sample		Soil
Date prepared	-	03/07/2025
Date analysed	-	04/07/2025
Moisture	%	13

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: PFAS in Soils Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			04/07/2025	[NT]	[NT]	[NT]	[NT]	04/07/2025	[NT]
Date analysed	-			04/07/2025	[NT]	[NT]	[NT]	[NT]	04/07/2025	[NT]
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	108	[NT]
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	104	[NT]
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	110	[NT]
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	102	[NT]
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	92	[NT]
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	92	[NT]
4:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	100	[NT]
10:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	104	[NT]
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
N-Ethyl perfluorooctanesulfon amide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
N-Me perfluorooctanesulfonamid oethanol	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	117	[NT]
N-Et perfluorooctanesulfonamid oethanol	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	105	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	111	[NT]
EtPerfluorooctanesulf amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	105	[NT]

QUALITY CONTROL: PFAS in Soils Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	94	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	94	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	92	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	92	[NT]	[NT]	[NT]	[NT]	92	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	92	[NT]	[NT]	[NT]	[NT]	88	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	85	[NT]	[NT]	[NT]	[NT]	76	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD d_5 *N EtFOSA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	89	[NT]

QUALITY CONTROL: PFAS in Soils Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	90	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	90	[NT]	[NT]	[NT]	[NT]	88	[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.

Anna Bui

From: Lauren Holmes <lholmes@jbsg.com.au>
Sent: Tuesday, 15 July 2025 11:19 AM
To: Stuart Chen
Cc: Nicole Bennett; Envirolab Sydney Sample Receipt
Subject: RE: Results for Registration 383658-A 69149

Hi Stuart,

15

Could you please run TCLP for PFAS on this sample? 24 hr TAT please.

ELS REF: 383658-B

TAT: 1 DAY

DUE: 16/7/25

AB.

Thanks,
Lauren

Please note I work Tuesday, Wednesday and Thursday only.

Lauren Holmes | Associate | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0433 420 590 | E: lholmes@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Stuart Chen <SChen2@envirolab.com.au>
Sent: Tuesday, 8 July 2025 3:57 PM
To: Nicole Bennett <nbennett@jbsg.com.au>; JBSG Labresults <jbsglabresults@jbsg.com.au>; Lauren Holmes <lholmes@jbsg.com.au>; S&G Labresults <labresults@jbsg.com.au>; AdminNSW <adminNSW@jbsg.com.au>
Subject: Results for Registration 383658-A 69149

Please refer to attached for:
a copy of the Certificate of Analysis
a copy of the COC/paperwork received from you
ESDAT Extracts
an Excel or .csv file containing the results
a copy of the Invoice

Please note that a hard copy will not be posted.

Enquiries should be made directly to:
customerservice@envirolab.com.au

To view information on uncertainty guidelines click here

How did we do? Send Feedback

Kind Regards,

Stuart Chen | Report Coordinator | Envirolab Services

Great Science. Great Service.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	L Holmes

Sample Login Details

Your reference	69149
Envirolab Reference	383658-B
Date Sample Received	18/06/2025
Date Instructions Received	15/07/2025
Date Results Expected to be Reported	16/07/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	Additional analysis 1 sample
Turnaround Time Requested	1 day
Temperature on Receipt (°C)	5
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	PFAS in TCLP Extended	On Hold
QA01_20250613		✓
QA01_20250613_J		✓
QA01_20250613_AQ		✓
QA02_20250613_J		✓
QA01_20250616		✓
QA01_20250616_J		✓
QA01_20250616_AQ		✓
QA02_20250616		✓
QA02_20250616_J		✓
QA03_20250616		✓
QA03_20250616_J		✓
QA04_20250616_J		✓
QA01_20250617		✓
QA02_20250617		✓
QA01_20250617_J	✓	
QA02_20250617_J		✓
QA03_20250617_J		✓
QA04_20250617_J		✓
QA01_20250618_J		✓
QA02_20250618_J		✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Eurofins 1 of 1

Chain of Custody

JBS&G

PROJECT NO.: 69149
PROJECT NAME: Pagewood
DATE NEEDED BY: STD TAT
LABORATORY BATCH NO.:
SAMPLERS: Nicole Bennett
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Lholmes@jbsg.com.au; (3) NBENNETT@jbsg.com.au, jbsglabresults@...
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	TRH/BTEX	PAHs	VOCs	PFAS	pH, EC, TDS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW01	water	30/6		vials + bottles + ice		X	X	X	X	X	X			
MW02	↓	↓		↓		X	X	X	X	X	X			
MW03						X	X	X	X	X	X			
QCOL20250630						X	X	X	X	X	X			
TS/TB				vials + ice			X							
RINSATE				vials + bottles + ice						X				

RELINQUISHED BY:
NAME: NBennett DATE: 1/7/25
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: BRennett
DATE: 1/7/25 7:55
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP (-) ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

1239171

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: Lauren Holmes
Project name: PAGEWOOD
Project ID: 69149
Turnaround time: 5 Day
Date/Time received Jul 1, 2025 4:55 PM
Eurofins reference 1239171

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 1.3 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Extra sample Blank (pfas), placed on hold.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: Andrew.Black@eurofinsanz.com

Results will be delivered electronically via email to Lauren Holmes - lholmes@jbsg.com.au.

Global Leader - Results you can trust

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1239171
Phone: 02 8245 0300
Fax:

Received: Jul 1, 2025 4:55 PM
Due: Jul 8, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Conductivity (at 25 °C)	HOLD*	pH (at 25 °C)	Polycyclic Aromatic Hydrocarbons	Metals M8 filtered	Volatile Organics	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH	Total Dissolved Solids Dried at 180 °C ± 2 °C
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	MW01	Jun 30, 2025		Water	S25-Jl0002775	X		X	X	X	X	X		X		X
2	MW02	Jun 30, 2025		Water	S25-Jl0002776	X		X	X	X	X	X		X		X
3	MW03	Jun 30, 2025		Water	S25-Jl0002777	X		X	X	X	X	X		X		X
4	QC01_20250630	Jun 30, 2025		Water	S25-Jl0002778	X		X	X	X	X	X		X		X
5	TS	Jun 30, 2025		Trip Spike (liquid)	S25-Jl0002779										X	
6	TB	Jun 30, 2025		Trip Blank (liquid)	S25-Jl0002780								X			
7	RINSATE	Jun 30, 2025		Water	S25-Jl0002781									X		
8	BLANK	Jun 30, 2025		Water	S25-Jl0002782		X									
Test Counts						4	1	4	4	4	4	4	1	5	1	4

JBS & G Australia (NSW) P/L
Level 8, 179 Elizabeth St
Sydney
NSW 2000

Attention: **Lauren Holmes**

Report **1239171-W**
Project name PAGEWOOD
Project ID 69149
Received Date Jul 01, 2025

Client Sample ID			**MW01**	**MW02**	**MW03**	**QC01_20250630**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S25-JI0002775**	**S25-JI0002776**	**S25-JI0002777**	**S25-JI0002778**
Date Sampled			**Jun 30, 2025**	**Jun 30, 2025**	**Jun 30, 2025**	**Jun 30, 2025**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2)*[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	104	108	103	106
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW01	MW02	MW03	QC01_20250630
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S25-JI0002775	S25-JI0002776	S25-JI0002777	S25-JI0002778
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
2-Propanone (Acetone)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vinyl chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	104	108	103	106
Toluene-d8 (surr.)	1	%	97	104	97	99

Client Sample ID			MW01	MW02	MW03	QC01_20250630
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S25-JI0002775	S25-JI0002776	S25-JI0002777	S25-JI0002778
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	87	79	75	84
p-Terphenyl-d14 (surr.)	1	%	135	130	128	133
Conductivity (at 25 °C)	10	uS/cm	150	200	180	190
pH (at 25 °C)	0.1	pH Units	6.6	6.6	6.0	6.7
Total Dissolved Solids Dried at 180 °C ± 2 °C	10	mg/L	86	130	120	130
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium (filtered)	0.001	mg/L	0.001	< 0.001	0.001	< 0.001
Copper (filtered)	0.001	mg/L	0.001	0.001	< 0.001	< 0.001
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Zinc (filtered)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
Perfluorodecanoic acid (PFDA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluorododecanoic acid (PFDoDA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluoroheptanoic acid (PFHpA)[N11]	0.001	ug/L	[N09]0.005	[N09]0.003	< 0.001	[N09]0.003
Perfluorohexanoic acid (PFHxA)[N11]	0.001	ug/L	0.005	0.004	< 0.001	0.004
Perfluorononanoic acid (PFNA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluorooctanoic acid (PFOA)[N11]	0.001	ug/L	[N09]0.018	[N09]0.025	< 0.001	[N09]0.026
Perfluoropentanoic acid (PFPeA)[N11]	0.001	ug/L	0.003	0.002	< 0.001	0.002
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluorotridecanoic acid (PFTrDA)[N15]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluoroundecanoic acid (PFUnDA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
13C4-PFBA (surr.)	1	%	77	67	74	75
13C5-PFPeA (surr.)	1	%	69	57	71	65
13C5-PFHxA (surr.)	1	%	83	76	82	79
13C4-PFHpA (surr.)	1	%	92	88	92	92
13C8-PFOA (surr.)	1	%	90	81	94	81

Client Sample ID			MW01	MW02	MW03	QC01_20250630
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S25-JI0002775	S25-JI0002776	S25-JI0002777	S25-JI0002778
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace						
13C5-PFNA (surr.)	1	%	108	106	108	107
13C6-PFDA (surr.)	1	%	106	97	107	97
13C2-PFUnDA (surr.)	1	%	102	89	94	87
13C2-PFDoDA (surr.)	1	%	91	88	87	91
13C2-PFTeDA (surr.)	1	%	66	69	72	67
Perfluoroalkyl sulfonic acids (PFSAs)- Ultra Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.001	ug/L	0.003	0.002	< 0.001	0.002
Perfluorononanesulfonic acid (PFNS)[N15]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.001	ug/L	[N09]0.012	[N09]0.028	[N09]0.002	[N09]0.029
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.001	ug/L	[N09]0.002	[N09]0.002	< 0.001	[N09]0.002
Perfluorooctanesulfonic acid (PFOS)[N11]	0.0001	ug/L	[N09]0.0020	[N09]0.029	[N09]0.0017	[N09]0.033
Perfluorodecanesulfonic acid (PFDS)[N15]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
13C3-PFBS (surr.)	1	%	98	86	95	90
18O2-PFHxS (surr.)	1	%	97	85	98	88
13C8-PFOS (surr.)	1	%	96	93	97	90
Perfluoroalkyl sulfonamido substances- Ultra Trace						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
Perfluorooctane sulfonamide (FOSA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
13C8-FOSA (surr.)	1	%	78	83	85	85
D3-N-MeFOSA (surr.)	1	%	67	77	80	80
D5-N-EtFOSA (surr.)	1	%	60	74	78	70
D7-N-MeFOSE (surr.)	1	%	62	75	71	74
D9-N-EtFOSE (surr.)	1	%	67	78	75	74
D5-N-EtFOSAA (surr.)	1	%	111	102	103	99
D3-N-MeFOSAA (surr.)	1	%	114	101	91	101
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Ultra Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
13C2-4:2 FTSA (surr.)	1	%	138	118	126	125
13C2-6:2 FTSA (surr.)	1	%	INT	181	171	188
13C2-8:2 FTSA (surr.)	1	%	INT	INT	184	INT
13C2-10:2 FTSA (surr.)	1	%	185	169	134	184

Client Sample ID			MW01	MW02	MW03	QC01_20250630
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S25-JI0002775	S25-JI0002776	S25-JI0002777	S25-JI0002778
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.001	ug/L	0.014	0.057	0.0037	0.062
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.001	ug/L	0.032	0.082	0.0037	0.088
Sum of US EPA PFAS (PFOS + PFOA)*	0.001	ug/L	0.02	0.054	0.0017	0.059
Sum of WA DWER PFAS (n=10)*	0.005	ug/L	0.048	0.093	< 0.005	0.099
Sum of PFASs (n=30)*	0.005	ug/L	0.05	0.095	< 0.005	0.101

Client Sample ID			TS	TB	RINSATE	BLANK
Sample Matrix			Trip Spike (liquid)	Trip Blank (liquid)	Water	Water
Eurofins Sample No.			S25-JI0002779	S25-JI0002780	S25-JI0002781	S25-JI0002782
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	-	< 0.02	< 0.02	-
TRH C10-C14	0.05	mg/L	-	-	< 0.05	-
TRH C15-C28	0.1	mg/L	-	-	< 0.1	-
TRH C29-C36	0.1	mg/L	-	-	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	-	-	< 0.1	-
TRH C6-C10	0.02	mg/L	-	< 0.02	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	< 0.02	< 0.02	-
TRH >C10-C16	0.05	mg/L	-	-	< 0.05	-
TRH >C10-C16 less Naphthalene (F2)*[N01]	0.05	mg/L	-	-	< 0.05	-
Naphthalene[N02]	0.01	mg/L	-	< 0.01	< 0.01	-
TRH >C16-C34	0.1	mg/L	-	-	< 0.1	-
TRH >C34-C40	0.1	mg/L	-	-	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	-	-	< 0.1	-
BTEX						
Benzene	0.001	mg/L	-	< 0.001	< 0.001	-
Toluene	0.001	mg/L	-	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	-	< 0.001	< 0.001	-
m&p-Xylenes	0.002	mg/L	-	< 0.002	< 0.002	-
o-Xylene	0.001	mg/L	-	< 0.001	< 0.001	-
Xylenes - Total*	0.003	mg/L	-	< 0.003	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	-	62	113	-
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	-	-	< 0.001	-
1.1-Dichloroethene	0.001	mg/L	-	-	< 0.001	-
1.1.1-Trichloroethane	0.001	mg/L	-	-	< 0.001	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	-	-	< 0.001	-
1.1.2-Trichloroethane	0.001	mg/L	-	-	< 0.001	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	-	-	< 0.001	-
1.2-Dibromoethane	0.001	mg/L	-	-	< 0.001	-
1.2-Dichlorobenzene	0.001	mg/L	-	-	< 0.001	-
1.2-Dichloroethane	0.001	mg/L	-	-	< 0.001	-
1.2-Dichloropropane	0.001	mg/L	-	-	< 0.001	-
1.2.3-Trichloropropane	0.001	mg/L	-	-	< 0.001	-
1.2.4-Trimethylbenzene	0.001	mg/L	-	-	< 0.001	-
1.3-Dichlorobenzene	0.001	mg/L	-	-	< 0.001	-

Client Sample ID			TS	TB	RINSATE	BLANK
Sample Matrix			Trip Spike (liquid)	Trip Blank (liquid)	Water	Water
Eurofins Sample No.			S25-JI0002779	S25-JI0002780	S25-JI0002781	S25-JI0002782
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichloropropane	0.001	mg/L	-	-	< 0.001	-
1.3.5-Trimethylbenzene	0.001	mg/L	-	-	< 0.001	-
1.4-Dichlorobenzene	0.001	mg/L	-	-	< 0.001	-
2-Butanone (MEK)	0.005	mg/L	-	-	< 0.005	-
2-Propanone (Acetone)	0.005	mg/L	-	-	< 0.005	-
4-Chlorotoluene	0.001	mg/L	-	-	< 0.001	-
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	-	-	< 0.005	-
Allyl chloride	0.001	mg/L	-	-	< 0.001	-
Benzene	0.001	mg/L	-	-	< 0.001	-
Bromobenzene	0.001	mg/L	-	-	< 0.001	-
Bromochloromethane	0.001	mg/L	-	-	< 0.001	-
Bromodichloromethane	0.001	mg/L	-	-	< 0.001	-
Bromoform	0.001	mg/L	-	-	< 0.001	-
Bromomethane	0.005	mg/L	-	-	< 0.005	-
Carbon disulfide	0.001	mg/L	-	-	< 0.001	-
Carbon Tetrachloride	0.001	mg/L	-	-	< 0.001	-
Chlorobenzene	0.001	mg/L	-	-	< 0.001	-
Chloroethane	0.005	mg/L	-	-	< 0.005	-
Chloroform	0.005	mg/L	-	-	< 0.005	-
Chloromethane	0.005	mg/L	-	-	< 0.005	-
cis-1.2-Dichloroethene	0.001	mg/L	-	-	< 0.001	-
cis-1.3-Dichloropropene	0.001	mg/L	-	-	< 0.001	-
Dibromochloromethane	0.001	mg/L	-	-	< 0.001	-
Dibromomethane	0.001	mg/L	-	-	< 0.001	-
Dichlorodifluoromethane	0.005	mg/L	-	-	< 0.005	-
Ethylbenzene	0.001	mg/L	-	-	< 0.001	-
Iodomethane	0.001	mg/L	-	-	< 0.001	-
Isopropyl benzene (Cumene)	0.001	mg/L	-	-	< 0.001	-
m&p-Xylenes	0.002	mg/L	-	-	< 0.002	-
Methylene Chloride	0.005	mg/L	-	-	< 0.005	-
o-Xylene	0.001	mg/L	-	-	< 0.001	-
Styrene	0.001	mg/L	-	-	< 0.001	-
Tetrachloroethene	0.001	mg/L	-	-	< 0.001	-
Toluene	0.001	mg/L	-	-	< 0.001	-
trans-1.2-Dichloroethene	0.001	mg/L	-	-	< 0.001	-
trans-1.3-Dichloropropene	0.001	mg/L	-	-	< 0.001	-
Trichloroethene	0.001	mg/L	-	-	< 0.001	-
Trichlorofluoromethane	0.005	mg/L	-	-	< 0.005	-
Vinyl chloride	0.005	mg/L	-	-	< 0.005	-
Xylenes - Total*	0.003	mg/L	-	-	< 0.003	-
Total MAH*	0.003	mg/L	-	-	< 0.003	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	-	-	< 0.005	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	-	-	< 0.005	-
4-Bromofluorobenzene (surr.)	1	%	-	-	113	-
Toluene-d8 (surr.)	1	%	-	-	106	-

Client Sample ID			TS	TB	RINSATE	BLANK
Sample Matrix			Trip Spike (liquid)	Trip Blank (liquid)	Water	Water
Eurofins Sample No.			S25-JI0002779	S25-JI0002780	S25-JI0002781	S25-JI0002782
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	-	< 0.001	-
Acenaphthylene	0.001	mg/L	-	-	< 0.001	-
Anthracene	0.001	mg/L	-	-	< 0.001	-
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	-	-	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001	-
Chrysene	0.001	mg/L	-	-	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	-	-	< 0.001	-
Fluoranthene	0.001	mg/L	-	-	< 0.001	-
Fluorene	0.001	mg/L	-	-	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001	-
Naphthalene	0.001	mg/L	-	-	< 0.001	-
Phenanthrene	0.001	mg/L	-	-	< 0.001	-
Pyrene	0.001	mg/L	-	-	< 0.001	-
Total PAH*	0.001	mg/L	-	-	< 0.001	-
2-Fluorobiphenyl (surr.)	1	%	-	-	83	-
p-Terphenyl-d14 (surr.)	1	%	-	-	134	-
TRH C6-C10	1	%	76	-	-	-
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	-	-	< 0.001	-
Cadmium (filtered)	0.0002	mg/L	-	-	< 0.0002	-
Chromium (filtered)	0.001	mg/L	-	-	0.001	-
Copper (filtered)	0.001	mg/L	-	-	< 0.001	-
Lead (filtered)	0.001	mg/L	-	-	< 0.001	-
Mercury (filtered)	0.0001	mg/L	-	-	< 0.0001	-
Nickel (filtered)	0.001	mg/L	-	-	< 0.001	-
Zinc (filtered)	0.005	mg/L	-	-	< 0.005	-
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.005	ug/L	-	-	< 0.005	-
Perfluorodecanoic acid (PFDA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorohexanoic acid (PFHxA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorononanoic acid (PFNA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorooctanoic acid (PFOA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluoropentanoic acid (PFPeA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.001	ug/L	-	-	< 0.001	-
13C4-PFBA (surr.)	1	%	-	-	87	-
13C5-PFPeA (surr.)	1	%	-	-	107	-
13C5-PFHxA (surr.)	1	%	-	-	105	-
13C4-PFHpA (surr.)	1	%	-	-	109	-
13C8-PFOA (surr.)	1	%	-	-	109	-
13C5-PFNA (surr.)	1	%	-	-	127	-

Client Sample ID			TS	TB	RINSATE	BLANK
Sample Matrix			Trip Spike (liquid)	Trip Blank (liquid)	Water	Water
Eurofins Sample No.			S25-JI0002779	S25-JI0002780	S25-JI0002781	S25-JI0002782
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace						
13C6-PFDA (surr.)	1	%	-	-	96	-
13C2-PFUnDA (surr.)	1	%	-	-	106	-
13C2-PFDoDA (surr.)	1	%	-	-	107	-
13C2-PFTeDA (surr.)	1	%	-	-	82	-
Perfluoroalkyl sulfonic acids (PFSAs)- Ultra Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.0001	ug/L	-	-	0.0004	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.001	ug/L	-	-	< 0.001	-
13C3-PFBS (surr.)	1	%	-	-	120	-
18O2-PFHxS (surr.)	1	%	-	-	108	-
13C8-PFOS (surr.)	1	%	-	-	104	-
Perfluoroalkyl sulfonamido substances- Ultra Trace						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.005	ug/L	-	-	< 0.005	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.005	ug/L	-	-	< 0.005	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.005	ug/L	-	-	< 0.005	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.005	ug/L	-	-	< 0.005	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.005	ug/L	-	-	< 0.005	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.005	ug/L	-	-	< 0.005	-
Perfluorooctane sulfonamide (FOSA)[N11]	0.005	ug/L	-	-	< 0.005	-
13C8-FOSA (surr.)	1	%	-	-	87	-
D3-N-MeFOSA (surr.)	1	%	-	-	83	-
D5-N-EtFOSA (surr.)	1	%	-	-	73	-
D7-N-MeFOSE (surr.)	1	%	-	-	78	-
D9-N-EtFOSE (surr.)	1	%	-	-	77	-
D5-N-EtFOSAA (surr.)	1	%	-	-	113	-
D3-N-MeFOSAA (surr.)	1	%	-	-	108	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Ultra Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.001	ug/L	-	-	< 0.001	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.005	ug/L	-	-	< 0.005	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.001	ug/L	-	-	< 0.001	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.001	ug/L	-	-	< 0.001	-
13C2-4:2 FTSA (surr.)	1	%	-	-	159	-
13C2-6:2 FTSA (surr.)	1	%	-	-	142	-
13C2-8:2 FTSA (surr.)	1	%	-	-	167	-
13C2-10:2 FTSA (surr.)	1	%	-	-	154	-

Client Sample ID			TS	TB	RINSATE	BLANK
Sample Matrix			Trip Spike (liquid)	Trip Blank (liquid)	Water	Water
Eurofins Sample No.			S25-JI0002779	S25-JI0002780	S25-JI0002781	S25-JI0002782
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.001	ug/L	-	-	< 0.001	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.001	ug/L	-	-	< 0.001	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.001	ug/L	-	-	< 0.001	-
Sum of WA DWER PFAS (n=10)*	0.005	ug/L	-	-	< 0.005	-
Sum of PFASs (n=30)*	0.005	ug/L	-	-	< 0.005	-
Total Recoverable Hydrocarbons						
Naphthalene	1	%	95	-	-	-
TRH C6-C9	1	%	77	-	-	-
BTEX						
Benzene	1	%	100	-	-	-
Ethylbenzene	1	%	100	-	-	-
m&p-Xylenes	1	%	100	-	-	-
o-Xylene	1	%	96	-	-	-
Toluene	1	%	96	-	-	-
Xylenes - Total	1	%	98	-	-	-
4-Bromofluorobenzene (surr.)	1	%	69	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	-	-	-	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	-	-	-	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	-	-	-	< 0.01
13C4-PFBA (surr.)	1	%	-	-	-	82
13C5-PFPeA (surr.)	1	%	-	-	-	113
13C5-PFHxA (surr.)	1	%	-	-	-	103
13C4-PFHpA (surr.)	1	%	-	-	-	89
13C8-PFOA (surr.)	1	%	-	-	-	82
13C5-PFNA (surr.)	1	%	-	-	-	99
13C6-PFDA (surr.)	1	%	-	-	-	93
13C2-PFUnDA (surr.)	1	%	-	-	-	88
13C2-PFDoDA (surr.)	1	%	-	-	-	82
13C2-PFTeDA (surr.)	1	%	-	-	-	95
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	-	-	-	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	-	-	-	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	-	-	-	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	-	-	-	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	-	-	-	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	-	-	-	< 0.05

Client Sample ID			TS	TB	RINSATE	BLANK
Sample Matrix			Trip Spike (liquid)	Trip Blank (liquid)	Water	Water
Eurofins Sample No.			S25-JI0002779	S25-JI0002780	S25-JI0002781	S25-JI0002782
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	-	-	-	< 0.05
13C8-FOSA (surr.)	1	%	-	-	-	91
D3-N-MeFOSA (surr.)	1	%	-	-	-	84
D5-N-EtFOSA (surr.)	1	%	-	-	-	89
D7-N-MeFOSE (surr.)	1	%	-	-	-	91
D9-N-EtFOSE (surr.)	1	%	-	-	-	90
D5-N-EtFOSAA (surr.)	1	%	-	-	-	78
D3-N-MeFOSAA (surr.)	1	%	-	-	-	81
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	-	-	-	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	-	-	-	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	-	-	-	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	-	-	-	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	-	-	-	< 0.01
13C3-PFBS (surr.)	1	%	-	-	-	99
18O2-PFHxS (surr.)	1	%	-	-	-	94
13C8-PFOS (surr.)	1	%	-	-	-	95
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	-	-	-	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	-	-	-	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	-	-	-	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	-	-	-	< 0.01
13C2-4:2 FTSA (surr.)	1	%	-	-	-	95
13C2-6:2 FTSA (surr.)	1	%	-	-	-	104
13C2-8:2 FTSA (surr.)	1	%	-	-	-	90
13C2-10:2 FTSA (surr.)	1	%	-	-	-	99
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	-	-	-	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	-	-	-	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	-	-	-	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	-	-	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	-	-	-	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jul 02, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jul 02, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Jul 01, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jul 02, 2025	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jul 02, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Jul 02, 2025	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Polycyclic Aromatic Hydrocarbons	Sydney	Jul 02, 2025	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Conductivity (at 25 °C)	Sydney	Jul 02, 2025	28 Days
- Method: LTM-INO-4030 Conductivity			
pH (at 25 °C)	Sydney	Jul 02, 2025	6 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Metals M8 filtered	Sydney	Jul 02, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Dissolved Solids Dried at 180 °C ± 2 °C	Sydney	Jul 02, 2025	7 Days
- Method: LTM-INO-4170 Total Dissolved Solids in Water			
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace	Sydney	Jul 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - ultra trace			
Perfluoroalkyl sulfonic acids (PFSAs)- Ultra Trace	Sydney	Jul 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - ultra trace			
Perfluoroalkyl sulfonamido substances- Ultra Trace	Sydney	Jul 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) Ultra trace			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Ultra Trace	Sydney	Jul 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - ultra trace			
PFASs Summations	Sydney	Jul 02, 2025	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - ultra trace			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Sydney	Jul 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Sydney	Jul 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Sydney	Jul 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Sydney	Jul 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

eurofins

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Eurofins Environment Testing Australia Pty Ltd
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1239171
Phone: 02 8245 0300
Fax:

Received: Jul 1, 2025 4:55 PM
Due: Jul 8, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Conductivity (at 25 °C)	pH (at 25 °C)	Polycyclic Aromatic Hydrocarbons	Metals M8 filtered	Volatile Organics	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs) - Ultra Trace	Total Dissolved Solids Dried at 180 °C ± 2 °C
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	MW01	Jun 30, 2025		Water	S25-Jl0002775	X	X	X	X	X	X				X	X
2	MW02	Jun 30, 2025		Water	S25-Jl0002776	X	X	X	X	X	X				X	X
3	MW03	Jun 30, 2025		Water	S25-Jl0002777	X	X	X	X	X	X				X	X
4	QC01_20250630	Jun 30, 2025		Water	S25-Jl0002778	X	X	X	X	X	X				X	X
5	TS	Jun 30, 2025		Trip Spike (liquid)	S25-Jl0002779									X		
6	TB	Jun 30, 2025		Trip Blank (liquid)	S25-Jl0002780							X				
7	RINSATE	Jun 30, 2025		Water	S25-Jl0002781			X	X	X	X				X	
8	BLANK	Jun 30, 2025		Water	S25-Jl0002782								X			
Test Counts						4	4	5	5	5	5	1	1	1	5	4

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthylene	%	121			70-130	Pass	
Benzo(b&j)fluoranthene	%	126			70-130	Pass	
Dibenz(a.h)anthracene	%	115			70-130	Pass	
Fluorene	%	128			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	121			70-130	Pass	
Naphthalene	%	91			70-130	Pass	
LCS - % Recovery							
Conductivity (at 25 °C)	%	95			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic (filtered)	%	96			80-120	Pass	
Cadmium (filtered)	%	96			80-120	Pass	
Chromium (filtered)	%	101			80-120	Pass	
Copper (filtered)	%	101			80-120	Pass	
Lead (filtered)	%	99			80-120	Pass	
Mercury (filtered)	%	99			80-120	Pass	
Nickel (filtered)	%	100			80-120	Pass	
Zinc (filtered)	%	100			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S25-Jl0002412	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	N25-Jl0000533	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	N25-Jl0000533	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	N25-Jl0000533	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C6-C10	S25-Jl0002412	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	N25-Jl0000533	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Naphthalene	S25-Jl0002412	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH >C16-C34	N25-Jl0000533	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	N25-Jl0000533	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S25-Jl0002412	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S25-Jl0002412	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Propanone (Acetone)	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Chlorotoluene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Allyl chloride	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Carbon disulfide	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloroform	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
cis-1.2-Dichloroethene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
cis-1.3-Dichloropropene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Iodomethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Methylene Chloride	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Styrene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.2-Dichloroethene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.3-Dichloropropene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichloroethene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichlorofluoromethane	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Vinyl chloride	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Total Dissolved Solids Dried at 180 °C ± 2 °C	S25-Jl0003125	NCP	mg/L	600	610	1.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C10	S25-Jn0083764	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S25-Jl0002781	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	S25-Jl0002781	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S25-Jl0002781	CP	mg/L	0.001	< 0.001	29	30%	Pass	
Copper (filtered)	S25-Jl0002781	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S25-Jl0002781	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S25-Jl0002781	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S25-Jl0002781	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc (filtered)	S25-Jl0002781	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Andrew Black	Analytical Services Manager
Maria Tian	Senior Analyst-Organic
Mickael Ros	Senior Analyst-Metal
Raymond Siu	Senior Analyst-Volatile
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-PFAS
Ryan Phillips	Senior Analyst-Inorganic

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins 1 of 1

Chain of Custody

JBS&G

PROJECT NO.: 69149
PROJECT NAME: Pagewood
DATE NEEDED BY: STD TAT
LABORATORY BATCH NO.:
SAMPLERS: Nicole Bennett
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Lholmes@jbsg.com.au; (3) NBENNETT@jbsg.com.au, jbsglabresults@...
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	TRH/BTEX	PAHs	VOCs	PFAS	pH, EC, TDS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW01	water	30/6		vials + bottles + ice		X	X	X	X	X	X			
MW02	↓	↓		↓		X	X	X	X	X	X			
MW03						X	X	X	X	X	X			
QCOL20250630						X	X	X	X	X	X			
TS/TB				vials + ice			X							
RINSATE				vials + bottles + ice						X				

RELINQUISHED BY:
NAME: NBennett DATE: 1/7/25
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: BRennett
DATE: 1/7/25 7:55
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP (-) ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

1239171

Outlook

RE: Eurofins Sample Receipt Advice - Report 1239171 : Site PAGEWOOD (69149)

From Lauren Holmes <lholmes@jbsg.com.au>
Date Wed 02/07/2025 9:15 AM
To SH_AU25_Enviro_Sample_NSW <EnviroSampleNSW@eurofinsanz.com>
Cc Nicole Bennett <nbennett@jbsg.com.au>

Hi Mary,

Same for this one, please analyse the BLANK sample for PFAS, and analyse all PFAS samples at ultra trace level.

Thanks,
Lauren

Please note I work Tuesday, Wednesday and Thursday only.

Lauren Holmes | Associate | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0433 420 590 | E: lholmes@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Mary Ann Mactal <EET-ELVIS@eurofinsanz.com>
Sent: Tuesday, 1 July 2025 6:54 PM
To: Lauren Holmes <lholmes@jbsg.com.au>
Cc: Nicole Bennett <nbennett@jbsg.com.au>
Subject: Eurofins Sample Receipt Advice - Report 1239171 : Site PAGEWOOD (69149)

Dear Valued Client,

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins Analytical Services Manager as soon as possible to make certain that they get changed.

Extra sample Blank (pfas), placed on hold.

Regards

Mary Ann Mactal
Sample Receipt

Eurofins | Environmental Testing
179 Magowar Road,
GIRRAWEEN, NSW 2145
AUSTRALIA

Phone: +61 02 9900 8421
Email: EnviroSampleNSW@eurofins.com
View our latest EnviroNotes

Outlook

RE: Eurofins Sample Receipt Advice - Report 1239171 : Site PAGEWOOD (69149)

From Lauren Holmes <lholmes@jbsg.com.au>
Date Wed 02/07/2025 12:14 PM
To Nicole Bennett <nbennett@jbsg.com.au>; SH_AU25_Enviro_Sample_NSW <EnviroSampleNSW@eurofinsanz.com>; Andrew Black <Andrew.Black@eurofinsanz.com>

Hi Mary,

Same with this one, no need for pH, EC and TDS analysis, but please complete all the rest in Nicole's list below.

Thanks,
Lauren

Please note I work Tuesday, Wednesday and Thursday only.

Lauren Holmes | Associate | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0433 420 590 | E: lholmes@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Nicole Bennett <nbennett@jbsg.com.au>
Sent: Wednesday, 2 July 2025 12:07 PM
To: EnviroSampleNSW@eurofinsanz.com; Andrew Black <andrew.black@eurofinsanz.com>
Cc: Lauren Holmes <lholmes@jbsg.com.au>
Subject: RE: Eurofins Sample Receipt Advice - Report 1239171 : Site PAGEWOOD (69149)

Hi Mary,

Please analyse the RINSATE for Heavy metals, TRH/BTEX, PAHs, VOCs, PFAS (ultra trace level) and pH, EC and TDS.

Thanks,
Nicole

Nicole Bennett | Project Scientist | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0426 865 392 | E: nbennett@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Lauren Holmes <lholmes@jbsg.com.au>
Sent: Wednesday, 2 July 2025 9:15 AM
To: EnviroSampleNSW@eurofinsanz.com
Cc: Nicole Bennett <nbennett@jbsg.com.au>
Subject: RE: Eurofins Sample Receipt Advice - Report 1239171 : Site PAGEWOOD (69149)

Hi Mary,

Same for this one, please analyse the BLANK sample for PFAS, and analyse all PFAS samples at ultra trace level.

Thanks,
Lauren

Please note I work Tuesday, Wednesday and Thursday only.

Lauren Holmes | Associate | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0433 420 590 | E: lholmes@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Mary Ann Mactal <EET-ELVIS@eurofinsanz.com>
Sent: Tuesday, 1 July 2025 6:54 PM
To: Lauren Holmes <lholmes@jbsg.com.au>
Cc: Nicole Bennett <nbennett@jbsg.com.au>
Subject: Eurofins Sample Receipt Advice - Report 1239171 : Site PAGEWOOD (69149)

Dear Valued Client,

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins Analytical Services Manager as soon as possible to make certain that they get changed.

Extra sample Blank (pfas), placed on hold.

Regards

Mary Ann Mactal
Sample Receipt

Eurofins | Environmental Testing
179 Magowar Road,
GIRRAWEEN, NSW 2145
AUSTRALIA
Phone: +61 02 9900 8421
Email: EnviroSampleNSW@eurofins.com
View our latest EnviroNotes

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: Lauren Holmes
Project name: PAGEWOOD
Project ID: 69149
Turnaround time: 5 Day
Date/Time received Jul 1, 2025 4:55 PM
Eurofins reference 1239171

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 1.3 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: Andrew.Black@eurofinsanz.com

Results will be delivered electronically via email to Lauren Holmes - lholmes@jbsg.com.au.

Global Leader - Results you can trust

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1239171
Phone: 02 8245 0300
Fax:

Received: Jul 1, 2025 4:55 PM
Due: Jul 10, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Conductivity (at 25 °C)	pH (at 25 °C)	Polycyclic Aromatic Hydrocarbons	Metals M8 filtered	Volatile Organics	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs) - Ultra Trace	Total Dissolved Solids Dried at 180 °C ± 2 °C
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	MW01	Jun 30, 2025		Water	S25-Jl0002775	X	X	X	X	X	X				X	X
2	MW02	Jun 30, 2025		Water	S25-Jl0002776	X	X	X	X	X	X				X	X
3	MW03	Jun 30, 2025		Water	S25-Jl0002777	X	X	X	X	X	X				X	X
4	QC01_20250630	Jun 30, 2025		Water	S25-Jl0002778	X	X	X	X	X	X				X	X
5	TS	Jun 30, 2025		Trip Spike (liquid)	S25-Jl0002779									X		
6	TB	Jun 30, 2025		Trip Blank (liquid)	S25-Jl0002780							X				
7	RINSATE	Jun 30, 2025		Water	S25-Jl0002781			X	X	X	X				X	
8	BLANK	Jun 30, 2025		Water	S25-Jl0002782								X			
Test Counts						4	4	5	5	5	5	1	1	1	5	4

JBS & G Australia (NSW) P/L
Level 8, 179 Elizabeth St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Lauren Holmes**

Report **1239171-W-V2**
Project name PAGEWOOD
Project ID 69149
Received Date Jul 01, 2025

Client Sample ID			**MW01**	**MW02**	**MW03**	**QC01_20250630**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S25-JI0002775**	**S25-JI0002776**	**S25-JI0002777**	**S25-JI0002778**
Date Sampled			**Jun 30, 2025**	**Jun 30, 2025**	**Jun 30, 2025**	**Jun 30, 2025**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2)*[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	104	108	103	106
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW01	MW02	MW03	QC01_20250630
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S25-JI0002775	S25-JI0002776	S25-JI0002777	S25-JI0002778
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
2-Propanone (Acetone)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vinyl chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	104	108	103	106
Toluene-d8 (surr.)	1	%	97	104	97	99

Client Sample ID			MW01	MW02	MW03	QC01_20250630
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S25-JI0002775	S25-JI0002776	S25-JI0002777	S25-JI0002778
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	87	79	75	84
p-Terphenyl-d14 (surr.)	1	%	135	130	128	133
Conductivity (at 25 °C)	10	uS/cm	150	200	180	190
pH (at 25 °C)	0.1	pH Units	6.6	6.6	6.0	6.7
Total Dissolved Solids Dried at 180 °C ± 2 °C	10	mg/L	86	130	120	130
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium (filtered)	0.001	mg/L	0.001	< 0.001	0.001	< 0.001
Copper (filtered)	0.001	mg/L	0.001	0.001	< 0.001	< 0.001
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Zinc (filtered)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
Perfluorodecanoic acid (PFDA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluorododecanoic acid (PFDoDA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluoroheptanoic acid (PFHpA)[N11]	0.001	ug/L	[N09]0.005	[N09]0.003	< 0.001	[N09]0.003
Perfluorohexanoic acid (PFHxA)[N11]	0.001	ug/L	0.005	0.004	< 0.001	0.004
Perfluorononanoic acid (PFNA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluorooctanoic acid (PFOA)[N11]	0.001	ug/L	[N09]0.018	[N09]0.025	< 0.001	[N09]0.026
Perfluoropentanoic acid (PFPeA)[N11]	0.001	ug/L	0.003	0.002	< 0.001	0.002
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluorotridecanoic acid (PFTrDA)[N15]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluoroundecanoic acid (PFUnDA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
13C4-PFBA (surr.)	1	%	77	67	74	75
13C5-PFPeA (surr.)	1	%	69	57	71	65
13C5-PFHxA (surr.)	1	%	83	76	82	79
13C4-PFHpA (surr.)	1	%	92	88	92	92
13C8-PFOA (surr.)	1	%	90	81	94	81

Client Sample ID			MW01	MW02	MW03	QC01_20250630
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S25-JI0002775	S25-JI0002776	S25-JI0002777	S25-JI0002778
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace						
13C5-PFNA (surr.)	1	%	108	106	108	107
13C6-PFDA (surr.)	1	%	106	97	107	97
13C2-PFUnDA (surr.)	1	%	102	89	94	87
13C2-PFDoDA (surr.)	1	%	91	88	87	91
13C2-PFTeDA (surr.)	1	%	66	69	72	67
Perfluoroalkyl sulfonic acids (PFSAs)- Ultra Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.001	ug/L	0.003	0.002	< 0.001	0.002
Perfluorononanesulfonic acid (PFNS)[N15]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.001	ug/L	[N09]0.012	[N09]0.028	[N09]0.002	[N09]0.029
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.001	ug/L	[N09]0.002	[N09]0.002	< 0.001	[N09]0.002
Perfluorooctanesulfonic acid (PFOS)[N11]	0.0001	ug/L	[N09]0.0020	[N09]0.029	[N09]0.0017	[N09]0.033
Perfluorodecanesulfonic acid (PFDS)[N15]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
13C3-PFBS (surr.)	1	%	98	86	95	90
18O2-PFHxS (surr.)	1	%	97	85	98	88
13C8-PFOS (surr.)	1	%	96	93	97	90
Perfluoroalkyl sulfonamido substances- Ultra Trace						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
Perfluorooctane sulfonamide (FOSA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
13C8-FOSA (surr.)	1	%	78	83	85	85
D3-N-MeFOSA (surr.)	1	%	67	77	80	80
D5-N-EtFOSA (surr.)	1	%	60	74	78	70
D7-N-MeFOSE (surr.)	1	%	62	75	71	74
D9-N-EtFOSE (surr.)	1	%	67	78	75	74
D5-N-EtFOSAA (surr.)	1	%	111	102	103	99
D3-N-MeFOSAA (surr.)	1	%	114	101	91	101
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Ultra Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
13C2-4:2 FTSA (surr.)	1	%	138	118	126	125
13C2-6:2 FTSA (surr.)	1	%	INT	181	171	188
13C2-8:2 FTSA (surr.)	1	%	INT	INT	184	INT
13C2-10:2 FTSA (surr.)	1	%	185	169	134	184

Client Sample ID			MW01	MW02	MW03	QC01_20250630
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S25-JI0002775	S25-JI0002776	S25-JI0002777	S25-JI0002778
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.001	ug/L	0.014	0.057	0.0037	0.062
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.001	ug/L	0.032	0.082	0.0037	0.088
Sum of US EPA PFAS (PFOS + PFOA)*	0.001	ug/L	0.02	0.054	0.0017	0.059
Sum of WA DWER PFAS (n=10)*	0.005	ug/L	0.048	0.093	< 0.005	0.099
Sum of PFASs (n=30)*	0.005	ug/L	0.05	0.095	< 0.005	0.101

Client Sample ID			TS	TB	RINSATE	BLANK
Sample Matrix			Trip Spike (liquid)	Trip Blank (liquid)	Water	Water
Eurofins Sample No.			S25-JI0002779	S25-JI0002780	S25-JI0002781	S25-JI0002782
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	-	< 0.02	< 0.02	-
TRH C10-C14	0.05	mg/L	-	-	< 0.05	-
TRH C15-C28	0.1	mg/L	-	-	< 0.1	-
TRH C29-C36	0.1	mg/L	-	-	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	-	-	< 0.1	-
TRH C6-C10	0.02	mg/L	-	< 0.02	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	< 0.02	< 0.02	-
TRH >C10-C16	0.05	mg/L	-	-	< 0.05	-
TRH >C10-C16 less Naphthalene (F2)*[N01]	0.05	mg/L	-	-	< 0.05	-
Naphthalene[N02]	0.01	mg/L	-	< 0.01	< 0.01	-
TRH >C16-C34	0.1	mg/L	-	-	< 0.1	-
TRH >C34-C40	0.1	mg/L	-	-	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	-	-	< 0.1	-
BTEX						
Benzene	0.001	mg/L	-	< 0.001	< 0.001	-
Toluene	0.001	mg/L	-	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	-	< 0.001	< 0.001	-
m&p-Xylenes	0.002	mg/L	-	< 0.002	< 0.002	-
o-Xylene	0.001	mg/L	-	< 0.001	< 0.001	-
Xylenes - Total*	0.003	mg/L	-	< 0.003	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	-	62	113	-
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	-	-	< 0.001	-
1.1-Dichloroethene	0.001	mg/L	-	-	< 0.001	-
1.1.1-Trichloroethane	0.001	mg/L	-	-	< 0.001	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	-	-	< 0.001	-
1.1.2-Trichloroethane	0.001	mg/L	-	-	< 0.001	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	-	-	< 0.001	-
1.2-Dibromoethane	0.001	mg/L	-	-	< 0.001	-
1.2-Dichlorobenzene	0.001	mg/L	-	-	< 0.001	-
1.2-Dichloroethane	0.001	mg/L	-	-	< 0.001	-
1.2-Dichloropropane	0.001	mg/L	-	-	< 0.001	-
1.2.3-Trichloropropane	0.001	mg/L	-	-	< 0.001	-
1.2.4-Trimethylbenzene	0.001	mg/L	-	-	< 0.001	-
1.3-Dichlorobenzene	0.001	mg/L	-	-	< 0.001	-

Client Sample ID			TS	TB	RINSATE	BLANK
Sample Matrix			Trip Spike (liquid)	Trip Blank (liquid)	Water	Water
Eurofins Sample No.			S25-JI0002779	S25-JI0002780	S25-JI0002781	S25-JI0002782
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichloropropane	0.001	mg/L	-	-	< 0.001	-
1.3.5-Trimethylbenzene	0.001	mg/L	-	-	< 0.001	-
1.4-Dichlorobenzene	0.001	mg/L	-	-	< 0.001	-
2-Butanone (MEK)	0.005	mg/L	-	-	< 0.005	-
2-Propanone (Acetone)	0.005	mg/L	-	-	< 0.005	-
4-Chlorotoluene	0.001	mg/L	-	-	< 0.001	-
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	-	-	< 0.005	-
Allyl chloride	0.001	mg/L	-	-	< 0.001	-
Benzene	0.001	mg/L	-	-	< 0.001	-
Bromobenzene	0.001	mg/L	-	-	< 0.001	-
Bromochloromethane	0.001	mg/L	-	-	< 0.001	-
Bromodichloromethane	0.001	mg/L	-	-	< 0.001	-
Bromoform	0.001	mg/L	-	-	< 0.001	-
Bromomethane	0.005	mg/L	-	-	< 0.005	-
Carbon disulfide	0.001	mg/L	-	-	< 0.001	-
Carbon Tetrachloride	0.001	mg/L	-	-	< 0.001	-
Chlorobenzene	0.001	mg/L	-	-	< 0.001	-
Chloroethane	0.005	mg/L	-	-	< 0.005	-
Chloroform	0.005	mg/L	-	-	< 0.005	-
Chloromethane	0.005	mg/L	-	-	< 0.005	-
cis-1.2-Dichloroethene	0.001	mg/L	-	-	< 0.001	-
cis-1.3-Dichloropropene	0.001	mg/L	-	-	< 0.001	-
Dibromochloromethane	0.001	mg/L	-	-	< 0.001	-
Dibromomethane	0.001	mg/L	-	-	< 0.001	-
Dichlorodifluoromethane	0.005	mg/L	-	-	< 0.005	-
Ethylbenzene	0.001	mg/L	-	-	< 0.001	-
Iodomethane	0.001	mg/L	-	-	< 0.001	-
Isopropyl benzene (Cumene)	0.001	mg/L	-	-	< 0.001	-
m&p-Xylenes	0.002	mg/L	-	-	< 0.002	-
Methylene Chloride	0.005	mg/L	-	-	< 0.005	-
o-Xylene	0.001	mg/L	-	-	< 0.001	-
Styrene	0.001	mg/L	-	-	< 0.001	-
Tetrachloroethene	0.001	mg/L	-	-	< 0.001	-
Toluene	0.001	mg/L	-	-	< 0.001	-
trans-1.2-Dichloroethene	0.001	mg/L	-	-	< 0.001	-
trans-1.3-Dichloropropene	0.001	mg/L	-	-	< 0.001	-
Trichloroethene	0.001	mg/L	-	-	< 0.001	-
Trichlorofluoromethane	0.005	mg/L	-	-	< 0.005	-
Vinyl chloride	0.005	mg/L	-	-	< 0.005	-
Xylenes - Total*	0.003	mg/L	-	-	< 0.003	-
Total MAH*	0.003	mg/L	-	-	< 0.003	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	-	-	< 0.005	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	-	-	< 0.005	-
4-Bromofluorobenzene (surr.)	1	%	-	-	113	-
Toluene-d8 (surr.)	1	%	-	-	106	-

Client Sample ID			TS	TB	RINSATE	BLANK
Sample Matrix			Trip Spike (liquid)	Trip Blank (liquid)	Water	Water
Eurofins Sample No.			S25-Jl0002779	S25-Jl0002780	S25-Jl0002781	S25-Jl0002782
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	-	< 0.001	-
Acenaphthylene	0.001	mg/L	-	-	< 0.001	-
Anthracene	0.001	mg/L	-	-	< 0.001	-
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	-	-	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001	-
Chrysene	0.001	mg/L	-	-	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	-	-	< 0.001	-
Fluoranthene	0.001	mg/L	-	-	< 0.001	-
Fluorene	0.001	mg/L	-	-	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001	-
Naphthalene	0.001	mg/L	-	-	< 0.001	-
Phenanthrene	0.001	mg/L	-	-	< 0.001	-
Pyrene	0.001	mg/L	-	-	< 0.001	-
Total PAH*	0.001	mg/L	-	-	< 0.001	-
2-Fluorobiphenyl (surr.)	1	%	-	-	83	-
p-Terphenyl-d14 (surr.)	1	%	-	-	134	-
TRH C6-C10	1	%	76	-	-	-
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	-	-	< 0.001	-
Cadmium (filtered)	0.0002	mg/L	-	-	< 0.0002	-
Chromium (filtered)	0.001	mg/L	-	-	0.001	-
Copper (filtered)	0.001	mg/L	-	-	< 0.001	-
Lead (filtered)	0.001	mg/L	-	-	< 0.001	-
Mercury (filtered)	0.0001	mg/L	-	-	< 0.0001	-
Nickel (filtered)	0.001	mg/L	-	-	< 0.001	-
Zinc (filtered)	0.005	mg/L	-	-	< 0.005	-
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.005	ug/L	-	-	< 0.005	-
Perfluorodecanoic acid (PFDA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorohexanoic acid (PFHxA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorononanoic acid (PFNA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorooctanoic acid (PFOA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluoropentanoic acid (PFPeA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.001	ug/L	-	-	< 0.001	-
13C4-PFBA (surr.)	1	%	-	-	87	-
13C5-PFPeA (surr.)	1	%	-	-	99	-
13C5-PFHxA (surr.)	1	%	-	-	111	-
13C4-PFHpA (surr.)	1	%	-	-	92	-
13C8-PFOA (surr.)	1	%	-	-	111	-
13C5-PFNA (surr.)	1	%	-	-	115	-

Client Sample ID			TS	TB	RINSATE	BLANK
Sample Matrix			Trip Spike (liquid)	Trip Blank (liquid)	Water	Water
Eurofins Sample No.			S25-JI0002779	S25-JI0002780	S25-JI0002781	S25-JI0002782
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace						
13C6-PFDA (surr.)	1	%	-	-	90	-
13C2-PFUnDA (surr.)	1	%	-	-	93	-
13C2-PFDoDA (surr.)	1	%	-	-	96	-
13C2-PFTeDA (surr.)	1	%	-	-	72	-
Perfluoroalkyl sulfonic acids (PFSAs)- Ultra Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.0001	ug/L	-	-	< 0.0001	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.001	ug/L	-	-	< 0.001	-
13C3-PFBS (surr.)	1	%	-	-	99	-
18O2-PFHxS (surr.)	1	%	-	-	99	-
13C8-PFOS (surr.)	1	%	-	-	96	-
Perfluoroalkyl sulfonamido substances- Ultra Trace						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.005	ug/L	-	-	< 0.005	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.005	ug/L	-	-	< 0.005	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.005	ug/L	-	-	< 0.005	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.005	ug/L	-	-	< 0.005	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.005	ug/L	-	-	< 0.005	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.005	ug/L	-	-	< 0.005	-
Perfluorooctane sulfonamide (FOSA)[N11]	0.005	ug/L	-	-	< 0.005	-
13C8-FOSA (surr.)	1	%	-	-	90	-
D3-N-MeFOSA (surr.)	1	%	-	-	77	-
D5-N-EtFOSA (surr.)	1	%	-	-	77	-
D7-N-MeFOSE (surr.)	1	%	-	-	80	-
D9-N-EtFOSE (surr.)	1	%	-	-	70	-
D5-N-EtFOSAA (surr.)	1	%	-	-	136	-
D3-N-MeFOSAA (surr.)	1	%	-	-	104	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Ultra Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.001	ug/L	-	-	< 0.001	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.005	ug/L	-	-	< 0.005	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.001	ug/L	-	-	< 0.001	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.001	ug/L	-	-	< 0.001	-
13C2-4:2 FTSA (surr.)	1	%	-	-	170	-
13C2-6:2 FTSA (surr.)	1	%	-	-	149	-
13C2-8:2 FTSA (surr.)	1	%	-	-	180	-
13C2-10:2 FTSA (surr.)	1	%	-	-	145	-

Client Sample ID			TS	TB	RINSATE	BLANK
Sample Matrix			Trip Spike (liquid)	Trip Blank (liquid)	Water	Water
Eurofins Sample No.			S25-JI0002779	S25-JI0002780	S25-JI0002781	S25-JI0002782
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.001	ug/L	-	-	< 0.001	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.001	ug/L	-	-	< 0.001	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.001	ug/L	-	-	< 0.001	-
Sum of WA DWER PFAS (n=10)*	0.005	ug/L	-	-	< 0.005	-
Sum of PFASs (n=30)*	0.005	ug/L	-	-	< 0.005	-
Total Recoverable Hydrocarbons						
Naphthalene	1	%	95	-	-	-
TRH C6-C9	1	%	77	-	-	-
BTEX						
Benzene	1	%	100	-	-	-
Ethylbenzene	1	%	100	-	-	-
m&p-Xylenes	1	%	100	-	-	-
o-Xylene	1	%	96	-	-	-
Toluene	1	%	96	-	-	-
Xylenes - Total	1	%	98	-	-	-
4-Bromofluorobenzene (surr.)	1	%	69	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	-	-	-	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	-	-	-	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	-	-	-	< 0.01
13C4-PFBA (surr.)	1	%	-	-	-	82
13C5-PFPeA (surr.)	1	%	-	-	-	113
13C5-PFHxA (surr.)	1	%	-	-	-	103
13C4-PFHpA (surr.)	1	%	-	-	-	89
13C8-PFOA (surr.)	1	%	-	-	-	82
13C5-PFNA (surr.)	1	%	-	-	-	99
13C6-PFDA (surr.)	1	%	-	-	-	93
13C2-PFUnDA (surr.)	1	%	-	-	-	88
13C2-PFDoDA (surr.)	1	%	-	-	-	82
13C2-PFTeDA (surr.)	1	%	-	-	-	95
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	-	-	-	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	-	-	-	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	-	-	-	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	-	-	-	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	-	-	-	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	-	-	-	< 0.05

Client Sample ID			TS	TB	RINSATE	BLANK
Sample Matrix			Trip Spike (liquid)	Trip Blank (liquid)	Water	Water
Eurofins Sample No.			S25-JI0002779	S25-JI0002780	S25-JI0002781	S25-JI0002782
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	-	-	-	< 0.05
13C8-FOSA (surr.)	1	%	-	-	-	91
D3-N-MeFOSA (surr.)	1	%	-	-	-	84
D5-N-EtFOSA (surr.)	1	%	-	-	-	89
D7-N-MeFOSE (surr.)	1	%	-	-	-	91
D9-N-EtFOSE (surr.)	1	%	-	-	-	90
D5-N-EtFOSAA (surr.)	1	%	-	-	-	78
D3-N-MeFOSAA (surr.)	1	%	-	-	-	81
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	-	-	-	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	-	-	-	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	-	-	-	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	-	-	-	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	-	-	-	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	-	-	-	< 0.01
13C3-PFBS (surr.)	1	%	-	-	-	99
18O2-PFHxS (surr.)	1	%	-	-	-	94
13C8-PFOS (surr.)	1	%	-	-	-	95
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	-	-	-	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	-	-	-	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	-	-	-	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	-	-	-	< 0.01
13C2-4:2 FTSA (surr.)	1	%	-	-	-	95
13C2-6:2 FTSA (surr.)	1	%	-	-	-	104
13C2-8:2 FTSA (surr.)	1	%	-	-	-	90
13C2-10:2 FTSA (surr.)	1	%	-	-	-	99
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	-	-	-	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	-	-	-	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	-	-	-	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	-	-	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	-	-	-	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jul 02, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jul 02, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Jul 01, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jul 02, 2025	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jul 02, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Jul 02, 2025	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Polycyclic Aromatic Hydrocarbons	Sydney	Jul 02, 2025	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Conductivity (at 25 °C)	Sydney	Jul 02, 2025	28 Days
- Method: LTM-INO-4030 Conductivity			
pH (at 25 °C)	Sydney	Jul 02, 2025	6 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Metals M8 filtered	Sydney	Jul 02, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Dissolved Solids Dried at 180 °C ± 2 °C	Sydney	Jul 02, 2025	7 Days
- Method: LTM-INO-4170 Total Dissolved Solids in Water			
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace	Sydney	Jul 09, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - ultra trace			
Perfluoroalkyl sulfonic acids (PFSAs)- Ultra Trace	Sydney	Jul 09, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - ultra trace			
Perfluoroalkyl sulfonamido substances- Ultra Trace	Sydney	Jul 09, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) Ultra trace			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Ultra Trace	Sydney	Jul 09, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - ultra trace			
PFASs Summations	Sydney	Jul 02, 2025	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - ultra trace			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Sydney	Jul 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Sydney	Jul 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Sydney	Jul 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Sydney	Jul 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

eurofins

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Project Name: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1239171
Phone: 02 8245 0300
Fax:

Received: Jul 1, 2025 4:55 PM
Due: Jul 10, 2025
Priority: 5 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Conductivity (at 25 °C)	pH (at 25 °C)	Polycyclic Aromatic Hydrocarbons	Metals M8 filtered	Volatile Organics	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs) - Ultra Trace	Total Dissolved Solids Dried at 180 °C ± 2 °C
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	MW01	Jun 30, 2025		Water	S25-Jl0002775	X	X	X	X	X	X				X	X
2	MW02	Jun 30, 2025		Water	S25-Jl0002776	X	X	X	X	X	X				X	X
3	MW03	Jun 30, 2025		Water	S25-Jl0002777	X	X	X	X	X	X				X	X
4	QC01_20250630	Jun 30, 2025		Water	S25-Jl0002778	X	X	X	X	X	X				X	X
5	TS	Jun 30, 2025		Trip Spike (liquid)	S25-Jl0002779									X		
6	TB	Jun 30, 2025		Trip Blank (liquid)	S25-Jl0002780							X				
7	RINSATE	Jun 30, 2025		Water	S25-Jl0002781			X	X	X	X				X	
8	BLANK	Jun 30, 2025		Water	S25-Jl0002782								X			
Test Counts						4	4	5	5	5	5	1	1	1	5	4

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.005			0.005	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.001			0.001	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.001			0.001	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.001			0.001	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.001			0.001	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.001			0.001	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.001			0.001	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.001			0.001	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.001			0.001	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.001			0.001	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.001			0.001	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)- Ultra Trace							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.001			0.001	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.001			0.001	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.001			0.001	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.001			0.001	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.001			0.001	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.001			0.001	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.0001			0.0001	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.001			0.001	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonamido substances- Ultra Trace							
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.005			0.005	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.005			0.005	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.005			0.005	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.005			0.005	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.005			0.005	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.005			0.005	Pass	
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.005			0.005	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Ultra Trace							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.001			0.001	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.005			0.005	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.001			0.001	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.001			0.001	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthylene	%	121			70-130	Pass	
Benzo(b&j)fluoranthene	%	126			70-130	Pass	
Dibenz(a.h)anthracene	%	115			70-130	Pass	
Fluorene	%	128			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	121			70-130	Pass	
Naphthalene	%	91			70-130	Pass	
LCS - % Recovery							
Conductivity (at 25 °C)	%	95			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic (filtered)	%	96			80-120	Pass	
Cadmium (filtered)	%	96			80-120	Pass	
Chromium (filtered)	%	101			80-120	Pass	
Copper (filtered)	%	101			80-120	Pass	
Lead (filtered)	%	99			80-120	Pass	
Mercury (filtered)	%	99			80-120	Pass	
Nickel (filtered)	%	100			80-120	Pass	
Zinc (filtered)	%	100			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace							
Perfluorobutanoic acid (PFBA)	%	83			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	93			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	86			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	86			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	102			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	96			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	80			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	83			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	141			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	83			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)- Ultra Trace							
Perfluorobutanesulfonic acid (PFBS)	%	83			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	86			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	80			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	70			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	80			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanesulfonic acid (PFHpS)	%	86			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	70			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	77			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances- Ultra Trace							
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	90			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	90			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	83			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	90			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	93			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	86			50-150	Pass	
Perfluorooctane sulfonamide (FOSA)	%	80			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Ultra Trace							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	109			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	80			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	86			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	90			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S25-Jn0071998	NCP	%	88			70-130	Pass	
TRH >C10-C16	S25-Jn0071998	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthylene	S25-Jl0009499	NCP	%	126			70-130	Pass	
Anthracene	S25-Jl0013947	NCP	%	90			70-130	Pass	
Benz(a)anthracene	S25-Jl0013947	NCP	%	100			70-130	Pass	
Benzo(a)pyrene	S25-Jl0013947	NCP	%	105			70-130	Pass	
Benzo(b&j)fluoranthene	S25-Jl0013947	NCP	%	88			70-130	Pass	
Benzo(k)fluoranthene	S25-Jl0013947	NCP	%	103			70-130	Pass	
Chrysene	S25-Jl0013947	NCP	%	98			70-130	Pass	
Dibenz(a.h)anthracene	S25-Jl0009499	NCP	%	101			70-130	Pass	
Fluoranthene	S25-Jl0009499	NCP	%	115			70-130	Pass	
Fluorene	S25-Jl0009499	NCP	%	125			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S25-Jl0009499	NCP	%	107			70-130	Pass	
Naphthalene	S25-Jl0009499	NCP	%	107			70-130	Pass	
Phenanthrene	S25-Jl0009499	NCP	%	123			70-130	Pass	
Pyrene	S25-Jl0009499	NCP	%	114			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	S25-Jl0002763	NCP	%	101			75-125	Pass	
Cadmium (filtered)	S25-Jl0002763	NCP	%	100			75-125	Pass	
Chromium (filtered)	S25-Jl0002763	NCP	%	105			75-125	Pass	
Copper (filtered)	S25-Jl0002763	NCP	%	107			75-125	Pass	
Lead (filtered)	S25-Jl0002763	NCP	%	104			75-125	Pass	
Mercury (filtered)	S25-Jl0002763	NCP	%	103			75-125	Pass	
Nickel (filtered)	S25-Jl0002763	NCP	%	104			75-125	Pass	
Zinc (filtered)	S25-Jl0002763	NCP	%	107			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace				Result 1					
Perfluorooctanoic acid (PFOA)	N25-Jl0008226	NCP	%	92			50-150	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonic acids (PFSAs)- Ultra Trace				Result 1					
Perfluorohexanesulfonic acid (PFHxS)	N25-Jl0008226	NCP	%	96			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	N25-Jl0008226	NCP	%	76			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Ultra Trace				Result 1					
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	N25-Jl0008226	NCP	%	92			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S25-Jl0005594	NCP	%	94			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Jl0005594	NCP	%	109			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Jl0005594	NCP	%	110			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Jl0005594	NCP	%	67			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S25-Jl0005594	NCP	%	68			50-150	Pass	
Perfluorononanoic acid (PFNA)	S25-Jl0005594	NCP	%	85			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S25-Jl0005594	NCP	%	92			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Jl0005594	NCP	%	88			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Jl0005594	NCP	%	80			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Jl0005594	NCP	%	96			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Jl0005594	NCP	%	75			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S25-Jl0005594	NCP	%	86			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Jl0005594	NCP	%	87			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Jl0005594	NCP	%	97			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Jl0005594	NCP	%	93			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Jl0005594	NCP	%	88			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Jl0005594	NCP	%	76			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Jl0005594	NCP	%	71			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S25-Jl0005594	NCP	%	112			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Jl0005594	NCP	%	70			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Jl0005594	NCP	%	75			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Jl0005594	NCP	%	78			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Jl0005594	NCP	%	100			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Jl0005594	NCP	%	89			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-Jl0005594	NCP	%	50			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Jl0005594	NCP	%	92			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-JI0005594	NCP	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-JI0022143	NCP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-JI0005594	NCP	%	76			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-JI0005594	NCP	%	85			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S25-JI0002412	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	N25-JI0000533	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	N25-JI0000533	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	N25-JI0000533	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C6-C10	S25-JI0002412	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	N25-JI0000533	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Naphthalene	S25-JI0002412	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH >C16-C34	N25-JI0000533	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	N25-JI0000533	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S25-JI0002412	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S25-JI0002412	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S25-JI0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Propanone (Acetone)	S25-JI0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Chlorotoluene	S25-JI0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S25-JI0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Allyl chloride	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Carbon disulfide	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloroform	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
cis-1.2-Dichloroethene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.3-Dichloropropene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Iodomethane	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Methylene Chloride	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Styrene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.2-Dichloroethene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.3-Dichloropropene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichloroethene	S25-Jl0002412	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichlorofluoromethane	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Vinyl chloride	S25-Jl0002412	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S25-Jl0009496	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Total Dissolved Solids Dried at 180 °C ± 2 °C	S25-Jl0003125	NCP	mg/L	600	610	1.0	30%	Pass	

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs) - Ultra Trace				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	N25-JI0008225	NCP	ug/L	< 0.005	< 0.005	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluorononanoic acid (PFNA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)- Ultra Trace				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	N25-JI0008225	NCP	ug/L	< 0.0001	< 0.0001	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances- Ultra Trace				Result 1	Result 2	RPD		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	N25-JI0008225	NCP	ug/L	< 0.005	< 0.005	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	N25-JI0008225	NCP	ug/L	< 0.005	< 0.005	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	N25-JI0008225	NCP	ug/L	< 0.005	< 0.005	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	N25-JI0008225	NCP	ug/L	< 0.005	< 0.005	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	N25-JI0008225	NCP	ug/L	< 0.005	< 0.005	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	N25-JI0008225	NCP	ug/L	< 0.005	< 0.005	<1	30%	Pass
Perfluorooctane sulfonamide (FOSA)	N25-JI0008225	NCP	ug/L	< 0.005	< 0.005	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Ultra Trace				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	N25-JI0008225	NCP	ug/L	< 0.005	< 0.005	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	N25-JI0008225	NCP	ug/L	< 0.001	< 0.001	<1	30%	Pass

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S25-Jl0002781	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	S25-Jl0002781	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S25-Jl0002781	CP	mg/L	0.001	< 0.001	29	30%	Pass	
Copper (filtered)	S25-Jl0002781	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S25-Jl0002781	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S25-Jl0002781	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S25-Jl0002781	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc (filtered)	S25-Jl0002781	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	N25-Jn0081579	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	N25-Jn0081579	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Comments

Report 1239171-W-V2 (amendment to report 1239171-W) has been issued with revised results for PFAS on sample JI0002781 after repeat analysis as per client request via email 9/7/25.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Andrew Black	Analytical Services Manager
Maria Tian	Senior Analyst-Organic
Mickael Ros	Senior Analyst-Metal
Raymond Siu	Senior Analyst-Volatile
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-PFAS
Ryan Phillips	Senior Analyst-Inorganic

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Outlook

RE: Eurofins Test Results - Report 1239171 : Site PAGEWOOD (69149)

From Lauren Holmes <lholmes@jbsg.com.au>
Date Tue 15/07/2025 1:08 PM
To Andrew Black <Andrew.Black@eurofinsanz.com>
Cc Nicole Bennett <nbennett@jbsg.com.au>

Hi Andrew,

Thanks for that.

Please run analysis for nutrient suite for:

- MW01
- MW02
- MW03
- QC01_20250630

24 hr TAT please.

Thanks,
Lauren

Please note I work Tuesday, Wednesday and Thursday only.

Lauren Holmes | Associate | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0433 420 590 | E: lholmes@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Andrew Black <Andrew.Black@eurofinsanz.com>
Sent: Tuesday, 15 July 2025 12:56 PM
To: Lauren Holmes <lholmes@jbsg.com.au>
Cc: Nicole Bennett <nbennett@jbsg.com.au>
Subject: RE: Eurofins Test Results - Report 1239171 : Site PAGEWOOD (69149)

Yep we can do it all from the unpreserved sample.

Andrew Black
Analytical Services Manager

Eurofins | Environment Testing Australia Pty Ltd
1 / 2 Frost Drive
Mayfield West, NSW, 2304
Phone: +61 2 9900 8490
Mobile: +61 410 220 750
Email: Andrew.Black@eurofinsanz.com
Website: eurofins.com.au/environmental-testing
https://www.eurofins-estore.com.au/

Please note my work hours are 8:30am-5:30pm, anything outside of that I will get to the next day. Contact evening shift ASM for anything urgent.

From: Lauren Holmes <lholmes@jbsg.com.au>
Sent: Tuesday, 15 July 2025 12:48 PM
To: Andrew Black <Andrew.Black@eurofinsanz.com>
Cc: Nicole Bennett <nbennett@jbsg.com.au>
Subject: RE: Eurofins Test Results - Report 1239171 : Site PAGEWOOD (69149)

> **Unverified Sender:** The sender of this email has not been verified. Review the content of the message carefully and verify the identity of the sender before acting on this email: replying, opening attachments or clicking links.

Hi Andrew,

Could you please let me know if we have the correct bottles to run a nutrient suite (NO2, NO3, NH3, TKN) on these samples?

Thanks,
Lauren

Please note I work Tuesday, Wednesday and Thursday only.

Lauren Holmes | Associate | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0433 420 590 | E: lholmes@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Andrew Black <EET-ELVIS@eurofinsanz.com>
Sent: Thursday, 10 July 2025 12:44 PM
To: Lauren Holmes <lholmes@jbsg.com.au>
Cc: Nicole Bennett <nbennett@jbsg.com.au>
Subject: Eurofins Test Results - Report 1239171 : Site PAGEWOOD (69149)

Kindest Regards,

Andrew Black
Analytical Services Manager

Eurofins | Environment Testing
Unit 1
2 Frost Drive
MAYFIELD WEST NSW 2304
AUSTRALIA
Phone: +61 299 008 490
Mobile: +61 410 220 750
Email: Andrew.Black@eurofinsanz.com

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View our latest EnviroNotes

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd

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NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: Lauren Holmes
Project name: ADDITIONAL: PAGEWOOD
Project ID: 69149
Turnaround time: 1 Day
Date/Time received Jul 15, 2025 1:13 PM
Eurofins reference 1244378

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 1.3 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: Andrew.Black@eurofinsanz.com

Results will be delivered electronically via email to Lauren Holmes - lholmes@jbsg.com.au.

Global Leader - Results you can trust

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

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Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: ADDITIONAL: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1244378
Phone: 02 8245 0300
Fax:

Received: Jul 15, 2025 1:13 PM
Due: Jul 16, 2025
Priority: 1 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Total Nitrogen Set (as N)
Melbourne Laboratory - NATA # 1261 Site # 1254						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	MW01	Jun 30, 2025		Water	S25-Jl0039367	X
2	MW02	Jun 30, 2025		Water	S25-Jl0039368	X
3	MW03	Jun 30, 2025		Water	S25-Jl0039369	X
4	QC01_20250630	Jun 30, 2025		Water	S25-Jl0039370	X
Test Counts						4

JBS & G Australia (NSW) P/L
Level 8, 179 Elizabeth St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Lauren Holmes**

Report **1244378-W**
Project name ADDITIONAL: PAGEWOOD
Project ID 69149
Received Date Jul 15, 2025

Client Sample ID			**MW01**	**MW02**	**MW03**	**QC01_20250630**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S25-JI0039367**	**S25-JI0039368**	**S25-JI0039369**	**S25-JI0039370**
Date Sampled			**Jun 30, 2025**	**Jun 30, 2025**	**Jun 30, 2025**	**Jun 30, 2025**
Test/Reference	LOR	Unit				
Nitrate & Nitrite (as N)	0.05	mg/L	4.5	3.8	6.5	3.9
Nitrate (as N)	0.02	mg/L	4.5	3.8	6.5	3.9
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Total Kjeldahl Nitrogen (as N)	0.2	mg/L	0.7	0.7	1.0	0.9
Total Nitrogen (as N)*	0.2	mg/L	5.2	4.5	7.5	4.8

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Nitrogen Set (as N)			
Nitrate & Nitrite (as N)	Melbourne	Jul 16, 2025	28 Days
- Method: LTM-INO-4450 Nitrogens by Discrete Analyser			
Nitrate (as N)	Melbourne	Jul 16, 2025	28 Days
- Method: LTM-INO-4450 Nitrogens by Discrete Analyser			
Nitrite (as N)	Melbourne	Jul 16, 2025	2 Days
- Method: LTM-INO-4450 Nitrogens by Discrete Analyser			
Total Kjeldahl Nitrogen (as N)	Melbourne	Jul 16, 2025	28 Days
- Method: APHA 4500-Norg B,D Total Kjeldahl Nitrogen by FIA			

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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ABN: 91 05 0159 898

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NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: ADDITIONAL: PAGEWOOD
Project ID: 69149

Order No.:
Report #: 1244378
Phone: 02 8245 0300
Fax:

Received: Jul 15, 2025 1:13 PM
Due: Jul 16, 2025
Priority: 1 Day
Contact Name: Lauren Holmes

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Total Nitrogen Set (as N)
Melbourne Laboratory - NATA # 1261 Site # 1254						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	MW01	Jun 30, 2025		Water	S25-Jl0039367	X
2	MW02	Jun 30, 2025		Water	S25-Jl0039368	X
3	MW03	Jun 30, 2025		Water	S25-Jl0039369	X
4	QC01_20250630	Jun 30, 2025		Water	S25-Jl0039370	X
Test Counts						4

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Nitrate & Nitrite (as N)	mg/L	< 0.05			0.05	Pass	
Nitrate (as N)	mg/L	< 0.02			0.02	Pass	
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
Total Kjeldahl Nitrogen (as N)	mg/L	< 0.2			0.2	Pass	
Method Blank							
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
LCS - % Recovery							
Nitrate & Nitrite (as N)	%	114			70-130	Pass	
Nitrite (as N)	%	87			70-130	Pass	
Total Kjeldahl Nitrogen (as N)	%	88			70-130	Pass	
LCS - % Recovery							
Nitrite (as N)	%	87			70-130	Pass	
LCS - % Recovery							
Nitrate & Nitrite (as N)	%	122			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Total Kjeldahl Nitrogen (as N)	M25-Jl0039160	NCP	%	83			70-130	Pass	
Spike - % Recovery									
				Result 1					
Nitrate & Nitrite (as N)	S25-Jl0039368	CP	%	72			70-130	Pass	
Nitrite (as N)	S25-Jl0039368	CP	%	104			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Nitrate & Nitrite (as N)	S25-Jl0039367	CP	mg/L	4.5	4.6	2.0	30%	Pass	
Nitrite (as N)	S25-Jl0039367	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Total Kjeldahl Nitrogen (as N)	M25-Jl0040571	NCP	mg/L	1.7	1.4	15	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Nileshni Goundar	Analytical Services Manager
Luke Holt	Senior Analyst-Inorganic

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Envirolab 1 of 1

Chain of Custody

JBS&G

PROJECT NO.: 69149	LABORATORY BATCH NO.:
PROJECT NAME: Pagewood	SAMPLERS: NB
DATE NEEDED BY: STD TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Lholmes@jbsg.com.au; (3) NBENNETT@jbsg.com.au, jbsglabresults@...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	TRH/BTEX	PAHs	VOCs	PFAS	pH, EC, TDS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1)	QA01_20250630	water	30/6		vials + bottles + ice		X	X	X	X	X	X			

ENVIROLAB group

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph. (02) 9910 6200

Job No: 384779
Date Received: 1/7/25
Time Received: 1545
Received By: LC
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 1/7/25 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: R. Chavez DATE: 1/7/25 1545 OF: ENS SYD	COOLER SEAL – (Yes) ..... No ..... (Intact) ..... Broken ..... COOLER TEMP 5 deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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CERTIFICATE OF ANALYSIS 384779

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	L Holmes
Address	Level 8, 179 Elizabeth St, Sydney, NSW, 2000

Sample Details

Your Reference	**69149**
Number of Samples	1 Water
Date samples received	01/07/2025
Date completed instructions received	01/07/2025

Analysis Details

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

Samples were analysed as received from the client. 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.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	08/07/2025
Date of Issue	08/07/2025

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Dragana Tomas, Senior Chemist
Jack Wallis, Senior Chemist
Loren Bardwell, Development Chemist
Priya Samarawickrama, Senior Chemist
Sean McAlary, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in water		
Our Reference		384779-1
Your Reference	UNITS	QA01_20250630
Date Sampled		30/06/2025
Type of sample		Water
Date Extracted	-	03/07/2025
Date Analysed	-	04/07/2025
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1

VOCs in water		
Our Reference		384779-1
Your Reference	UNITS	QA01_20250630
Date Sampled		30/06/2025
Type of sample		Water
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	106
Surrogate Toluene-d8	%	100
Surrogate 4-Bromofluorobenzene	%	100

vTRH(C6-C10)/BTEXN in Water		
Our Reference		384779-1
Your Reference	UNITS	QA01_20250630
Date Sampled		30/06/2025
Type of sample		Water
Date extracted	-	03/07/2025
Date analysed	-	04/07/2025
TRH C_6 - C_9	µg/L	<10
TRH C_6 - C_{10}	µg/L	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	106
Surrogate Toluene-d8	%	100
Surrogate 4-Bromofluorobenzene	%	100

svTRH (C10-C40) in Water		
Our Reference		384779-1
Your Reference	UNITS	QA01_20250630
Date Sampled		30/06/2025
Type of sample		Water
Date extracted	-	02/07/2025
Date analysed	-	03/07/2025
TRH C_{10} - C_{14}	µg/L	<50
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	<50
TRH >C_{10} - C_{16}	µg/L	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	<50
Surrogate o-Terphenyl	%	88

PAHs in Water		
Our Reference		384779-1
Your Reference	UNITS	QA01_20250630
Date Sampled		30/06/2025
Type of sample		Water
Date extracted	-	02/07/2025
Date analysed	-	03/07/2025
Naphthalene	µg/L	<0.1
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	<0.1
Surrogate p-Terphenyl-d14	%	89

HM in water - dissolved		
Our Reference		384779-1
Your Reference	UNITS	QA01_20250630
Date Sampled		30/06/2025
Type of sample		Water
Date prepared	-	02/07/2025
Date analysed	-	02/07/2025
Arsenic-Dissolved	µg/L	<1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	<1
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	<1
Zinc-Dissolved	µg/L	<1

Miscellaneous Inorganics		
Our Reference		384779-1
Your Reference	UNITS	QA01_20250630
Date Sampled		30/06/2025
Type of sample		Water
Date prepared	-	01/07/2025
Date analysed	-	01/07/2025
pH	pH Units	6.5
Electrical Conductivity	µS/cm	180
Total Dissolved Solids (grav)	mg/L	130

PFAS in Water LOW LEVEL Extend		
Our Reference		384779-1
Your Reference	UNITS	QA01_20250630
Date Sampled		30/06/2025
Type of sample		Water
Date prepared	-	07/07/2025
Date analysed	-	07/07/2025
Perfluorobutanesulfonic acid	µg/L	0.003
Perfluoropentanesulfonic acid	µg/L	0.001
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.035
Perfluoroheptanesulfonic acid	µg/L	0.003
Perfluorooctanesulfonic acid PFOS	µg/L	0.038
Perfluorodecanesulfonic acid	µg/L	<0.002
Perfluorobutanoic acid	µg/L	0.003
Perfluoropentanoic acid	µg/L	0.004
Perfluorohexanoic acid	µg/L	0.002
Perfluoroheptanoic acid	µg/L	0.005
Perfluorooctanoic acid PFOA	µg/L	0.029
Perfluorononanoic acid	µg/L	<0.001
Perfluorodecanoic acid	µg/L	<0.002
Perfluoroundecanoic acid	µg/L	<0.002
Perfluorododecanoic acid	µg/L	<0.005
Perfluorotridecanoic acid	µg/L	<0.02
Perfluorotetradecanoic acid	µg/L	<0.1
4:2 FTS	µg/L	<0.001
6:2 FTS	µg/L	<0.001
8:2 FTS	µg/L	<0.002
10:2 FTS	µg/L	<0.002
Perfluorooctane sulfonamide	µg/L	<0.01
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05
N-Ethyl perfluorooctanesulfon amide	µg/L	<0.1
N-Me perfluorooctanesulfonamid oethanol	µg/L	<0.05
N-Et perfluorooctanesulfonamid oethanol	µg/L	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.002
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.002
Surrogate $^{13}C_8$ *PFOS*	%	95
Surrogate $^{13}C_2$ *PFOA*	%	126
Extracted ISTD $^{13}C_3$ *PFBS*	%	66
Extracted ISTD $^{18}O_2$ *PFHxS*	%	95
Extracted ISTD $^{13}C_4$ *PFOS*	%	73
Extracted ISTD $^{13}C_4$ *PFBA*	%	50

PFAS in Water LOW LEVEL Extend		
Our Reference		384779-1
Your Reference	UNITS	QA01_20250630
Date Sampled		30/06/2025
Type of sample		Water
Extracted ISTD $^{13}C_3$ *PFPeA*	%	52
Extracted ISTD $^{13}C_2$ *PFHxA*	%	89
Extracted ISTD $^{13}C_4$ *PFHpA*	%	59
Extracted ISTD $^{13}C_4$ *PFOA*	%	100
Extracted ISTD $^{13}C_5$ *PFNA*	%	79
Extracted ISTD $^{13}C_2$ *PFDA*	%	80
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	74
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	52
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	36
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	68
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	125
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	114
Extracted ISTD $^{13}C_8$ *FOSA*	%	100
Extracted ISTD d_3 *N MeFOSA*	%	105
Extracted ISTD d_5 *N EtFOSA*	%	111
Extracted ISTD d_7 *N MeFOSE*	%	124
Extracted ISTD d_9 *N EtFOSE*	%	120
Extracted ISTD d_3 *N MeFOSAA*	%	96
Extracted ISTD d_5 *N EtFOSAA*	%	86
Total Positive PFHxS & PFOS	µg/L	0.073
Total Positive PFOA & PFOS	µg/L	0.067
Total Positive PFAS	µg/L	0.12

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10°C. NOTE: Where the EC of the sample is <100µS/cm, the TDS will typically be below 70mg/L (as the sample is very likely to be at least drinking water quality). Therefore to ensure data quality for TDS, the TDS is typically calculated as per the equation below:- TDS = EC * 0.6
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date Extracted	-			03/07/2025	[NT]	[NT]	[NT]	[NT]	03/07/2025	[NT]
Date Analysed	-			04/07/2025	[NT]	[NT]	[NT]	[NT]	04/07/2025	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	91	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	99	[NT]
Styrene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	104	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate Toluene-d8	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	110	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			03/07/2025	[NT]	[NT]	[NT]	[NT]	03/07/2025	[NT]
Date analysed	-			04/07/2025	[NT]	[NT]	[NT]	[NT]	04/07/2025	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	98	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	98	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	99	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	104	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate Toluene-d8	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	110	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			02/07/2025	1	02/07/2025	02/07/2025		02/07/2025	[NT]
Date analysed	-			03/07/2025	1	03/07/2025	03/07/2025		03/07/2025	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	1	<50	<50	0	119	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	1	<100	<100	0	115	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	1	<100	<100	0	100	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	1	<50	<50	0	119	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	1	<100	<100	0	115	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	1	<100	<100	0	100	[NT]
Surrogate o-Terphenyl	%		Org-020	88	1	88	90	2	85	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			02/07/2025	1	02/07/2025	02/07/2025		02/07/2025	[NT]
Date analysed	-			03/07/2025	1	03/07/2025	03/07/2025		03/07/2025	[NT]
Naphthalene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	83	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	82	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	88	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	90	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	97	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	76	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	82	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	93	1	89	87	2	93	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W7	[NT]
Date prepared	-			02/07/2025	[NT]	[NT]	[NT]	[NT]	02/07/2025	[NT]
Date analysed	-			02/07/2025	[NT]	[NT]	[NT]	[NT]	02/07/2025	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	83	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	98	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	85	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	82	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			01/07/2025	[NT]	[NT]	[NT]	[NT]	01/07/2025	[NT]
Date analysed	-			01/07/2025	[NT]	[NT]	[NT]	[NT]	01/07/2025	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	[NT]	[NT]	[NT]	[NT]	81	[NT]

QUALITY CONTROL: PFAS in Water LOW LEVEL Extend					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			07/07/2025	1	07/07/2025	07/07/2025		07/07/2025	[NT]
Date analysed	-			07/07/2025	1	07/07/2025	07/07/2025		07/07/2025	[NT]
Perfluorobutanesulfonic acid	µg/L	0.001	Org-029	<0.001	1	0.003	0.002	40	105	[NT]
Perfluoropentanesulfonic acid	µg/L	0.001	Org-029	<0.001	1	0.001	0.001	0	118	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.001	Org-029	<0.001	1	0.035	0.034	3	113	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.001	Org-029	<0.001	1	0.003	0.002	40	106	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.001	Org-029	<0.001	1	0.038	0.036	5	104	[NT]
Perfluorodecanesulfonic acid	µg/L	0.002	Org-029	<0.002	1	<0.002	<0.002	0	88	[NT]
Perfluorobutanoic acid	µg/L	0.002	Org-029	<0.002	1	0.003	0.003	0	104	[NT]
Perfluoropentanoic acid	µg/L	0.002	Org-029	<0.002	1	0.004	0.004	0	110	[NT]
Perfluorohexanoic acid	µg/L	0.001	Org-029	<0.001	1	0.002	0.002	0	99	[NT]
Perfluoroheptanoic acid	µg/L	0.001	Org-029	<0.001	1	0.005	0.005	0	108	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.001	Org-029	<0.001	1	0.029	0.028	4	98	[NT]
Perfluorononanoic acid	µg/L	0.001	Org-029	<0.001	1	<0.001	<0.001	0	105	[NT]
Perfluorodecanoic acid	µg/L	0.002	Org-029	<0.002	1	<0.002	<0.002	0	103	[NT]
Perfluoroundecanoic acid	µg/L	0.002	Org-029	<0.002	1	<0.002	<0.002	0	108	[NT]
Perfluorododecanoic acid	µg/L	0.005	Org-029	<0.005	1	<0.005	<0.005	0	99	[NT]
Perfluorotridecanoic acid	µg/L	0.01	Org-029	<0.01	1	<0.02	<0.05	86	128	[NT]
Perfluorotetradecanoic acid	µg/L	0.05	Org-029	<0.05	1	<0.1	<0.2	67	96	[NT]
4:2 FTS	µg/L	0.001	Org-029	<0.001	1	<0.001	<0.001	0	113	[NT]
6:2 FTS	µg/L	0.001	Org-029	<0.001	1	<0.001	<0.001	0	112	[NT]
8:2 FTS	µg/L	0.002	Org-029	<0.002	1	<0.002	<0.002	0	109	[NT]
10:2 FTS	µg/L	0.002	Org-029	<0.002	1	<0.002	<0.002	0	103	[NT]
Perfluorooctane sulfonamide	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	109	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-029	<0.05	1	<0.05	<0.05	0	125	[NT]
N-Ethyl perfluorooctanesulfon amide	µg/L	0.1	Org-029	<0.1	1	<0.1	<0.1	0	115	[NT]
N-Me perfluorooctanesulfonamid oethanol	µg/L	0.05	Org-029	<0.05	1	<0.05	<0.05	0	107	[NT]
N-Et perfluorooctanesulfonamid oethanol	µg/L	0.5	Org-029	<0.5	1	<0.5	<0.5	0	117	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.002	Org-029	<0.002	1	<0.002	<0.002	0	95	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.002	Org-029	<0.002	1	<0.002	<0.002	0	94	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	102	1	95	93	2	99	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	106	1	126	125	1	110	[NT]

QUALITY CONTROL: PFAS in Water LOW LEVEL Extend						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-029	75	1	66	58	13	78	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	86	1	95	91	4	88	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	77	1	73	70	4	79	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	95	1	50	51	2	96	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	79	1	52	51	2	78	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	92	1	89	85	5	90	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	86	1	59	58	2	85	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	94	1	100	96	4	95	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	76	1	79	76	4	76	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	74	1	80	76	5	75	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	74	1	74	71	4	73	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	69	1	52	47	10	69	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	50	1	36	28	25	50	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	106	1	68	66	3	100	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	110	1	125	117	7	114	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	92	1	114	103	10	88	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	85	1	100	105	5	85	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	106	1	105	106	1	107	[NT]
Extracted ISTD d_5 *N EtFOSA*	%		Org-029	118	1	111	117	5	116	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	120	1	124	124	0	113	[NT]

QUALITY CONTROL: PFAS in Water LOW LEVEL Extend						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	112	1	120	116	3	119	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	86	1	96	88	9	83	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	77	1	86	80	7	77	[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.

Report Comments

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Anna Bui

From: Stuart Chen
Sent: Tuesday, 15 July 2025 1:57 PM
To: Lauren Holmes; Envirolab Sydney Sample Receipt
Cc: Nicole Bennett
Subject: RE: Results for Registration 384779 69149

Hi Lauren,

No worries, we will arrange 2d TAT for this one.

@Envirolab Sydney Sample Receipt A-job please.

ELS REF: 384779-A
TAT: 2 DAY
DUE: 17/7/25
AB:

Kind Regards,

Stuart Chen | Report Coordinator | Envirolab Services

Great Science. Great Service.

12 Ashley Street Chatswood NSW 2067
T 612 9910 6200
E SChen2@envirolab.com.au | **W** www.envirolab.com.au

Follow us on: LinkedIn | Facebook | Twitter

From: Lauren Holmes <lholmes@jbsg.com.au>
Sent: Tuesday, 15 July 2025 1:31 PM
To: Stuart Chen <SChen2@envirolab.com.au>
Cc: Nicole Bennett <nbennett@jbsg.com.au>
Subject: RE: Results for Registration 384779 69149

Sorry – let's make this 48 hr TAT. Thanks!

Please note I work Tuesday, Wednesday and Thursday only.

Lauren Holmes | Associate | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0433 420 590 | E: lholmes@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Lauren Holmes
Sent: Tuesday, 15 July 2025 1:10 PM
To: Stuart Chen <SChen2@envirolab.com.au>
Cc: Nicole Bennett <nbennett@jbsg.com.au>
Subject: RE: Results for Registration 384779 69149

Hi Stuart,

(1)

Could you please run a nutrient suite (NO2, NO3, NH3, TKN) for this sample on 24 hr TAT?

Thanks,
Lauren

Please note I work Tuesday, Wednesday and Thursday only.

Lauren Holmes | Associate | JBS&G
Gadigal Country | Level 8, 179 Elizabeth St, Sydney, NSW
T: 02 8245 0300 | M: 0433 420 590 | E: lholmes@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Stuart Chen <SChen2@envirolab.com.au>
Sent: Tuesday, 8 July 2025 4:05 PM
To: JBSG Labresults <jbsglabresults@jbsg.com.au>; S&G Labresults <labresults@jbsg.com.au>; Nicole Bennett <nbennett@jbsg.com.au>; AdminNSW <adminNSW@jbsg.com.au>; Lauren Holmes <lholmes@jbsg.com.au>
Subject: Results for Registration 384779 69149

Please refer to attached for:
a copy of the Certificate of Analysis
a copy of the COC/paperwork received from you
ESDAT Extracts
an Excel or .csv file containing the results
a copy of the Invoice

Please note that a hard copy will not be posted.

Enquiries should be made directly to:
customerservice@envirolab.com.au

To view information on uncertainty guidelines click here

How did we do? Send Feedback

Kind Regards,

Stuart Chen | Report Coordinator | Envirolab Services

Great Science. Great Service.

12 Ashley Street Chatswood NSW 2067
T 612 9910 6200
E SChen2@envirolab.com.au | **W** www.envirolab.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	L Holmes

Sample Login Details

Your reference	69149
Envirolab Reference	384779-A
Date Sample Received	01/07/2025
Date Instructions Received	15/07/2025
Date Results Expected to be Reported	17/07/2025

Sample Condition

Samples received in appropriate condition for analysis	Holding time exceedance
No. of Samples Provided	Additional analysis
Turnaround Time Requested	2 days
Temperature on Receipt (°C)	5
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	Nitrite as N in water	Nitrate as N in water	Ammonia as N in water	TKN in water
QA01_20250630	✓	✓	✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 384779-A

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	L Holmes
Address	Level 8, 179 Elizabeth St, Sydney, NSW, 2000

Sample Details

Your Reference	**69149**
Number of Samples	Additional analysis
Date samples received	01/07/2025
Date completed instructions received	15/07/2025

Analysis Details

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

Samples were analysed as received from the client. 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.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	17/07/2025
Date of Issue	17/07/2025

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
Priya Samarawickrama, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

Miscellaneous Inorganics		
Our Reference		384779-A-1
Your Reference	UNITS	QA01_20250630
Date Sampled		30/06/2025
Type of sample		Water
Date prepared	-	16/07/2025
Date analysed	-	16/07/2025
Nitrite as N in water	mg/L	<0.005
Nitrate as N in water	mg/L	3.4
Ammonia as N in water	mg/L	0.02
TKN in water	mg/L	0.1

Method ID	Methodology Summary
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Inorg-062	TKN - determined colourimetrically based on APHA latest edition 4500 Norg. Alternatively, TKN can be derived from calculation (Total N - NOx).

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			16/07/2025	[NT]	[NT]	[NT]	[NT]	16/07/2025	[NT]
Date analysed	-			16/07/2025	[NT]	[NT]	[NT]	[NT]	16/07/2025	[NT]
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	90	[NT]
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	102	[NT]
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	[NT]	[NT]	[NT]	[NT]	103	[NT]
TKN in water	mg/L	0.1	Inorg-062	<0.1	[NT]	[NT]	[NT]	[NT]	104	[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.

Report Comments

Nutrients- Samples were out of the recommended holding time for this analysis.

Appendix I Statistical Analysis Summary

Appendix I: Statistical Analysis Summary

Project Number: 69149

Project Name: Pagewood

	TRHs (NEPC 2013)		PAH
	C16-C34	F1 (C6-C10 minus BTEX)	Benzo(a)pyrene
	mg/kg	mg/kg	mg/kg
EQL	100	20	0.05
NEPM 2013 Table 1A(1) HILs Res A Soil			
NEPM 2013 Table 1A(1) HILs Res B Soil			
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand, 0-1m		45	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	300	180	0.7
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	1,300	180	0.7
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	2,500		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil	3,500		

Location Code	Field ID	Date	Lab Report Number			
~~BH01~~	~~BH01_0_0.1~~	~~16 Jun 2025~~	~~1234275~~	~~230~~	~~<20~~	~~1.7~~
~~BH02~~	~~BH02/MW01_0_0.1~~	~~13 Jun 2025~~	~~1234275~~	~~<100~~	~~<20~~	~~<0.5~~
~~BH03~~	~~BH03_0_0.1~~	~~16 Jun 2025~~	~~1234275~~	~~380~~	~~<20~~	~~0.5~~
~~BH04~~	~~BH04_0.3_0.4~~	~~16 Jun 2025~~	~~1234275~~	~~-~~	~~-~~	~~<0.5~~
	~~BH04_0_0.1~~	~~16 Jun 2025~~	~~1234275~~	~~<100~~	~~<20~~	~~<0.5~~
BH05	BH05_0.3_0.4	16 Jun 2025	1234275	<100	<20	<0.5
	BH05_0_0.1	16 Jun 2025	1234275	<100	<25	1.6
BH06	BH06_0.3_0.4	16 Jun 2025	1234275	-	-	<0.5
	BH06_0_0.1	16 Jun 2025	1234275	<100	<20	<0.5
BH07	BH07_0_0.1	16 Jun 2025	1234275	<100	<20	<0.5
BH08	BH08_0.3_0.4	13 Jun 2025	1234275	-	-	<0.5
	BH08_0_0.1	13 Jun 2025	1234275	110	<20	<0.5
BH09	BH09_0_0.1	16 Jun 2025	1234275	<100	<20	<0.5
BH10	BH10_0_0.1	16 Jun 2025	1234275	<100	<20	<0.5
BH11	BH11/MW02_0_0.1	13 Jun 2025	1234275	110	<20	<0.5
BH12	BH12_0_0.1	17 Jun 2025	1234275	<100	<20	<0.5
BH13	BH13_0_0.1	17 Jun 2025	1234275	180	<20	<0.5
BH14	BH14_0_0.1	17 Jun 2025	1234275	<100	<20	<0.5
BH15	BH15_0_0.1	17 Jun 2025	1234275	330	<20	<0.5
BH16	BH16_0_0.1	18 Jun 2025	1234275	<100	<20	<0.5
BH17	BH17_0_0.1	17 Jun 2025	1234275	<100	<20	<0.5
BH18	BH18_0_0.1	17 Jun 2025	1234275	<100	<20	<0.5
BH19	BH19_0.5_0.6	17 Jun 2025	1234275	-	-	<0.5
	BH19_0_0.1	17 Jun 2025	1234275	140	28	<0.5
BH20	BH20_0_0.1	17 Jun 2025	1234275	<100	85	<0.5
BH21	BH21/MW03_0_0.1	18 Jun 2025	1234275	<100	<20	<0.5

Samples with strikethrough were removed from the statistical dataset as a hotspot requiring removal from the site.

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	ProUCL 5.112/08/2025 10:41:09 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

C16-C34 (All data points)

General Statistics			
Total Number of Observations	22	Number of Distinct Observations	7
		Number of Missing Observations	0
Minimum	100	Mean	135.5
Maximum	380	Median	100
SD	**78.3**	Std. Error of Mean	16.69
Coefficient of Variation	0.578	Skewness	2.425
Normal GOF Test			
Shapiro Wilk Test Statistic	0.53	Shapiro Wilk GOF Test	
5% Shapiro Wilk Critical Value	0.911	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.4	Lilliefors GOF Test	
5% Lilliefors Critical Value	0.184	Data Not Normal at 5% Significance Level	
Data Not Normal at 5% Significance Level			
Assuming Normal Distribution			
95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	164.2	95% Adjusted-CLT UCL (Chen-1995)	172.1
		95% Modified-t UCL (Johnson-1978)	165.6
Gamma GOF Test			
A-D Test Statistic	4.504	Anderson-Darling Gamma GOF Test	
5% A-D Critical Value	0.746	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.393	Kolmogorov-Smirnov Gamma GOF Test	
5% K-S Critical Value	0.186	Data Not Gamma Distributed at 5% Significance Level	
Data Not Gamma Distributed at 5% Significance Level			
Gamma Statistics			
k hat (MLE)	5.162	k star (bias corrected MLE)	4.488
Theta hat (MLE)	26.24	Theta star (bias corrected MLE)	30.18
nu hat (MLE)	227.1	nu star (bias corrected)	197.5
MLE Mean (bias corrected)	135.5	MLE Sd (bias corrected)	63.94
		Approximate Chi Square Value (0.05)	166
Adjusted Level of Significance	0.0386	Adjusted Chi Square Value	163.8
Assuming Gamma Distribution			
95% Approximate Gamma UCL (use when n>=50))	161.2	95% Adjusted Gamma UCL (use when n<50)	163.3
Lognormal GOF Test			
Shapiro Wilk Test Statistic	0.576	Shapiro Wilk Lognormal GOF Test	
5% Shapiro Wilk Critical Value	0.911	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.378	Lilliefors Lognormal GOF Test	
5% Lilliefors Critical Value	0.184	Data Not Lognormal at 5% Significance Level	
Data Not Lognormal at 5% Significance Level			
Lognormal Statistics			
Minimum of Logged Data	4.605	Mean of logged Data	4.809
Maximum of Logged Data	5.94	SD of logged Data	0.406
Assuming Lognormal Distribution			
95% H-UCL	157.8	90% Chebyshev (MVUE) UCL	167.9
95% Chebyshev (MVUE) UCL	184	97.5% Chebyshev (MVUE) UCL	206.2
99% Chebyshev (MVUE) UCL	249.8		
Nonparametric Distribution Free UCL Statistics			
Data do not follow a Discernible Distribution (0.05)			
Nonparametric Distribution Free UCLs			
95% CLT UCL	162.9	95% Jackknife UCL	164.2
95% Standard Bootstrap UCL	162.6	95% Bootstrap-t UCL	207
95% Hall's Bootstrap UCL	179.1	95% Percentile Bootstrap UCL	165.9
95% BCA Bootstrap UCL	172.3		
90% Chebyshev(Mean, Sd) UCL	185.5	95% Chebyshev(Mean, Sd) UCL	208.2
97.5% Chebyshev(Mean, Sd) UCL	239.7	99% Chebyshev(Mean, Sd) UCL	301.6
Suggested UCL to Use			
95% Student's-t UCL	**164.2**	or 95% Modified-t UCL	165.6

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	ProUCL 5.122/07/2025 1:23:01 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

C16-C34 (Excluding BH01 to BH04)

General Statistics

Total Number of Observations	18	Number of Distinct Observations	5
		Number of Missing Observations	0
Minimum	100	Mean	120.6
Maximum	330	Median	100
SD	**56.1**	Std. Error of Mean	13.22
Coefficient of Variation	0.465	Skewness	3.483

Normal GOF Test

Shapiro Wilk Test Statistic	0.433	Shapiro Wilk GOF Test	
5% Shapiro Wilk Critical Value	0.897	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.408	Lilliefors GOF Test	
5% Lilliefors Critical Value	0.202	Data Not Normal at 5% Significance Level	
Data Not Normal at 5% Significance Level			

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	143.6	95% Adjusted-CLT UCL (Chen-1995)	153.9
		95% Modified-t UCL (Johnson-1978)	145.4

Gamma GOF Test

A-D Test Statistic	4.111	Anderson-Darling Gamma GOF Test	
5% A-D Critical Value	0.74	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.394	Kolmogorov-Smirnov Gamma GOF Test	
5% K-S Critical Value	0.204	Data Not Gamma Distributed at 5% Significance Level	
Data Not Gamma Distributed at 5% Significance Level			

Gamma Statistics

k hat (MLE)	8.685	k star (bias corrected MLE)	7.275
Theta hat (MLE)	13.88	Theta star (bias corrected MLE)	16.57
nu hat (MLE)	312.7	nu star (bias corrected)	261.9
MLE Mean (bias corrected)	120.6	MLE Sd (bias corrected)	44.7
		Approximate Chi Square Value (0.05)	225.4
Adjusted Level of Significance	0.0357	Adjusted Chi Square Value	222.2

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	140.1	95% Adjusted Gamma UCL (use when n<50)	142.1

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.499	Shapiro Wilk Lognormal GOF Test	
5% Shapiro Wilk Critical Value	0.897	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.384	Lilliefors Lognormal GOF Test	
5% Lilliefors Critical Value	0.202	Data Not Lognormal at 5% Significance Level	
Data Not Lognormal at 5% Significance Level			

Lognormal Statistics

Minimum of Logged Data	4.605	Mean of logged Data	4.733
Maximum of Logged Data	5.799	SD of logged Data	0.307

Assuming Lognormal Distribution

95% H-UCL	136.9	90% Chebyshev (MVUE) UCL	145
95% Chebyshev (MVUE) UCL	156.9	97.5% Chebyshev (MVUE) UCL	173.4
99% Chebyshev (MVUE) UCL	205.7		

Nonparametric Distribution Free UCL Statistics
Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	142.3	95% Jackknife UCL	143.6
95% Standard Bootstrap UCL	141.9	95% Bootstrap-t UCL	224.6
95% Hall's Bootstrap UCL	233.1	95% Percentile Bootstrap UCL	143.9
95% BCA Bootstrap UCL	158.3		
90% Chebyshev(Mean, Sd) UCL	160.2	95% Chebyshev(Mean, Sd) UCL	178.2
97.5% Chebyshev(Mean, Sd) UCL	203.1	99% Chebyshev(Mean, Sd) UCL	252.1

Suggested UCL to Use

95% Student's-t UCL **143.6** or 95% Modified-t UCL 145.4

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	ProUCL 5.122/07/2025 1:24:28 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

TRH F1

General Statistics			
Total Number of Observations	18	Number of Distinct Observations	4
		Number of Missing Observations	0
Minimum	20	Mean	24.33
Maximum	85	Median	20
SD	**15.29**	Std. Error of Mean	3.605
Coefficient of Variation	0.628	Skewness	4.109

Normal GOF Test		
Shapiro Wilk Test Statistic	0.319	Shapiro Wilk GOF Test
5% Shapiro Wilk Critical Value	0.897	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.445	Lilliefors GOF Test
5% Lilliefors Critical Value	0.202	Data Not Normal at 5% Significance Level
Data Not Normal at 5% Significance Level		

Assuming Normal Distribution			
95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	30.6	95% Adjusted-CLT UCL (Chen-1995)	33.99
		95% Modified-t UCL (Johnson-1978)	31.19

Gamma GOF Test		
A-D Test Statistic	5.145	Anderson-Darling Gamma GOF Test
5% A-D Critical Value	0.742	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.463	Kolmogorov-Smirnov Gamma GOF Test
5% K-S Critical Value	0.204	Data Not Gamma Distributed at 5% Significance Level
Data Not Gamma Distributed at 5% Significance Level		

Gamma Statistics			
k hat (MLE)	6.069	k star (bias corrected MLE)	5.095
Theta hat (MLE)	4.009	Theta star (bias corrected MLE)	4.776
nu hat (MLE)	218.5	nu star (bias corrected)	183.4
MLE Mean (bias corrected)	24.33	MLE Sd (bias corrected)	10.78
		Approximate Chi Square Value (0.05)	153.1
Adjusted Level of Significance	0.0357	Adjusted Chi Square Value	150.4

Assuming Gamma Distribution			
95% Approximate Gamma UCL (use when n>=50))	29.15	95% Adjusted Gamma UCL (use when n<50)	29.67

Lognormal GOF Test		
Shapiro Wilk Test Statistic	0.375	Shapiro Wilk Lognormal GOF Test
5% Shapiro Wilk Critical Value	0.897	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.46	Lilliefors Lognormal GOF Test
5% Lilliefors Critical Value	0.202	Data Not Lognormal at 5% Significance Level
Data Not Lognormal at 5% Significance Level		

Lognormal Statistics			
Minimum of Logged Data	2.996	Mean of logged Data	3.107
Maximum of Logged Data	4.443	SD of logged Data	0.346

Assuming Lognormal Distribution			
95% H-UCL	27.81	90% Chebyshev (MVUE) UCL	29.54
95% Chebyshev (MVUE) UCL	32.2	97.5% Chebyshev (MVUE) UCL	35.9
99% Chebyshev (MVUE) UCL	43.17		

Nonparametric Distribution Free UCL Statistics
Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs			
95% CLT UCL	30.26	95% Jackknife UCL	30.6
95% Standard Bootstrap UCL	N/A	95% Bootstrap-t UCL	N/A
95% Hall's Bootstrap UCL	N/A	95% Percentile Bootstrap UCL	N/A
95% BCA Bootstrap UCL	N/A		
90% Chebyshev(Mean, Sd) UCL	35.15	95% Chebyshev(Mean, Sd) UCL	40.05
97.5% Chebyshev(Mean, Sd) UCL	46.84	99% Chebyshev(Mean, Sd) UCL	60.2

Suggested UCL to Use			
95% Student's-t UCL	**30.6**	or 95% Modified-t UCL	31.19

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	ProUCL 5.122/07/2025 1:24:58 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

B(a)P

General Statistics

Total Number of Observations	21	Number of Distinct Observations	2
		Number of Missing Observations	0
Minimum	0.5	Mean	0.552
Maximum	1.6	Median	0.5
SD	**0.24**	Std. Error of Mean	0.0524
Coefficient of Variation	0.435	Skewness	4.583

Normal GOF Test

Shapiro Wilk Test Statistic	0.226	Shapiro Wilk GOF Test	
5% Shapiro Wilk Critical Value	0.908	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.539	Lilliefors GOF Test	
5% Lilliefors Critical Value	0.188	Data Not Normal at 5% Significance Level	
Data Not Normal at 5% Significance Level			

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	0.643	95% Adjusted-CLT UCL (Chen-1995)	0.695
		95% Modified-t UCL (Johnson-1978)	0.651

Gamma GOF Test

A-D Test Statistic	7.649	Anderson-Darling Gamma GOF Test	
5% A-D Critical Value	0.743	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.544	Kolmogorov-Smirnov Gamma GOF Test	
5% K-S Critical Value	0.189	Data Not Gamma Distributed at 5% Significance Level	
Data Not Gamma Distributed at 5% Significance Level			

Gamma Statistics

k hat (MLE)	11.47	k star (bias corrected MLE)	9.859
Theta hat (MLE)	0.0482	Theta star (bias corrected MLE)	0.056
nu hat (MLE)	481.6	nu star (bias corrected)	414.1
MLE Mean (bias corrected)	0.552	MLE Sd (bias corrected)	0.176
		Approximate Chi Square Value (0.05)	367.9
Adjusted Level of Significance	0.0383	Adjusted Chi Square Value	364.6

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	0.622	95% Adjusted Gamma UCL (use when n<50)	0.627

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.226	Shapiro Wilk Lognormal GOF Test	
5% Shapiro Wilk Critical Value	0.908	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.539	Lilliefors Lognormal GOF Test	
5% Lilliefors Critical Value	0.188	Data Not Lognormal at 5% Significance Level	
Data Not Lognormal at 5% Significance Level			

Lognormal Statistics

Minimum of Logged Data	-0.693	Mean of logged Data	-0.638
Maximum of Logged Data	0.47	SD of logged Data	0.254

Assuming Lognormal Distribution

95% H-UCL	0.605	90% Chebyshev (MVUE) UCL	0.636
95% Chebyshev (MVUE) UCL	0.678	97.5% Chebyshev (MVUE) UCL	0.735
99% Chebyshev (MVUE) UCL	0.848		

Nonparametric Distribution Free UCL Statistics
Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	0.639	95% Jackknife UCL	N/A
95% Standard Bootstrap UCL	N/A	95% Bootstrap-t UCL	N/A
95% Hall's Bootstrap UCL	N/A	95% Percentile Bootstrap UCL	N/A
95% BCA Bootstrap UCL	N/A		
90% Chebyshev(Mean, Sd) UCL	0.71	95% Chebyshev(Mean, Sd) UCL	0.781
97.5% Chebyshev(Mean, Sd) UCL	0.879	99% Chebyshev(Mean, Sd) UCL	1.074

Suggested UCL to Use

95% Student's-t UCL	**0.643**	or 95% Modified-t UCL	0.651

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

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Document Status

Rev No.	Author	Reviewer	Approved for Issue		
		Name	Name	Signature	Date
A	Lauren Holmes Nicole Bennett	Joanne Rosner	Draft for client comment	Draft for client comment	15/08/2025
0	Lauren Holmes	Joanne Rosner	Joanne Rosner		1/10/2025
1	Lauren Holmes	Joanne Rosner	Joanne Rosner		2/10/2025
2	Lauren Holmes	Joanne Rosner	Joanne Rosner		7/10/2025
3	Lauren Holmes	Joanne Rosner	Joanne Rosner		23/10/2025

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