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REPORT TO  
**HANNAS CONTRACTING SERVICES PTY LTD**

ON  
**PRELIMINARY (STAGE 1) SITE INVESTIGATION**

FOR  
**PROPOSED INDUSTRIAL DEVELOPMENT**

AT  
**101-105 OLD PITTWATER ROAD, BROOKVALE,  
NSW**

Date: 11 April 2022

Ref: E34695PRrptRev1

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## Executive Summary

Hannas Contracting Services Pty Ltd ('the client') commissioned JK Environments (JKE) to undertake a Preliminary (Stage 1) Site Investigation (PSI) for the proposed industrial development at 101-105 Old Pittwater Road, Brookvale, NSW ('the site'). The purpose of the investigation is to make a preliminary assessment of site contamination. The site location is shown on Figure 1 and the investigation was confined to the site boundaries as shown on Figure 2 attached in the appendices. This report has been prepared to support the lodgement of a Development Application (DA) for the proposed industrial development, with regards to State Environmental Planning Policy (Resilience and Hazards) 2021.

Based on the provided information, JKE understand that the proposed development will include the demolition of existing structures and the construction of a two-story industrial warehouse development over a single basement level. Excavation to depths of approximately 6.5m below ground level (BGL) is anticipated for the construction of the basement.

The primary aims of the investigation were to identify any past or present potentially contaminating activities at the site, identify the potential for site contamination, and make a preliminary assessment of the soil and groundwater contamination conditions. The objectives were to:

- Provide an appraisal of the past site use(s) based on a review of historical records;
- Assess the current site conditions and use(s) via a site walkover inspection;
- Identify potential contamination sources/areas of environmental concern (AEC) and contaminants of potential concern (CoPC);
- Assess the soil contamination conditions via implementation of a preliminary sampling and analysis program;
- Prepare a conceptual site model (CSM);
- Assess the potential risks posed by contamination to the receptors identified in the CSM (Tier 1 assessment);
- Provide a preliminary waste classification for off-site disposal of soil;
- Assess whether the site is suitable or can be made suitable for the proposed development (from a contamination viewpoint); and
- Assess whether further intrusive investigation and/or remediation is required.

The scope of work included a review of site information (include site history), a site walkover inspection and soil sampling from four boreholes (BH4 to BH7 inclusive). The site information indicated the site was historically used for agricultural purposes, and has been used for industrial purposes since the 1950s. JKE identified the following potential contamination sources/AEC at the site and in the immediate surrounds:

- Fill material historically imported to the site;
- Historical agricultural use of the site;
- Use of pesticides around the site;
- Hazardous building materials in current and former structures;
- Industrial use of the site, including: paint, rubber and plastic production; metal and iron works; and stone works; and
- Off-site industrial uses, including: paint, oil, lubricant and solvent production; boat building/repairs; foundries; underground storage tanks (USTs), commercial printing; and insecticide manufacture.

The investigation identified fill soils to depths of approximately 0.5mBGL to 1mBGL, underlain by alluvial sand and silty sand. The fill typically comprised silty and gravelly sand with inclusions of igneous and sandstone gravel, ash, slag, and building rubble (brick, glass fragments). A fibre cement fragment (FCF) was also identified in shallow fill soils in BH7. No obvious stained or odorous soils were encountered during the investigation. Groundwater seepage was not encountered during drilling to a maximum borehole depth of 3mBGL.

Selected fill and natural soil samples were analysed for a pre-established selection of CoPC identified in the CSM. Additional CoPC were identified throughout the course of the PSI and were not analysed. With the exception of the zinc

concentration in fill in one location, and asbestos present fill in two locations, all of the results were below the respective site assessment criteria (SAC) which are protective of human health and ecological receptors.

Asbestos in the form of asbestos fines/fibrous asbestos (AF/FA) were detected above the human health SAC in two fill soil samples collected from BH6 and BH7. Asbestos containing material (ACM) (i.e. FCF) was also observed in fill soils in BH7. BH6 and BH7 were located within the central and eastern portions of the site respectively and the soils were sealed with concrete pavement. The source of the asbestos was considered likely associated with former demolition activities and impacted fill soils imported to the site. As the impacted fill is currently sealed by concrete pavement, a complete source-pathway-receptor (SPR) linkage for current receptors does not exist. On this basis, the risk is assessed to be low in the current site configuration where the concrete slab remains intact and the fill is not disturbed. Once the pavement is removed (i.e. during demolition/redevelopment), the asbestos impacted fill will be exposed and a potentially complete SPR linkage may exist. On this basis, the AF/FA concentrations are considered to pose a potential risk to human health and requires remediation and management.

The concentration of zinc detected in one fill soil sample collected from BH7 was above the ecological SAC. The concentration of zinc recorded in the underlying natural soils indicated that the zinc impact was localised and confined to the fill soil. BH7 was located within the east of the site and the soils at this location were sealed with pavement. The source of the zinc was considered likely associated with impacted fill placed on-site. As this area was sealed with concrete pavement, and will be within the proposed building footprint, JKE is of the opinion that a complete SPR linkage does not exist currently and will not exist under the proposed development scenario. On this basis, the zinc concentration in fill soils is not considered to pose a risk to ecological receptors.

Based on the findings of the investigation, JKE is of the opinion that the site can be made suitable for the proposed development. The following is recommended:

- Undertake a Detailed Site Investigation (DSI) to fully characterise the risks associated with the AEC/potential sources of contamination and CoPC. The DSI must address the data gaps identified in Section 10.4 of this report; and
- Prepare a Remediation action plan (RAP) to address the contamination issues identified at the site.

Due to the presence of asbestos, an appropriate Asbestos Management Plan (AMP) must be prepared and implemented for the current site operations and for the demolition/construction phase of the proposed development to meet the requirements under Clause 429 of the Work Health and Safety Regulation 2017 (NSW).

The conclusions and recommendations should be read in conjunction with the limitations presented in the body of this report.



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## Abbreviations

Asbestos Fines/Fibrous Asbestos	AF/FA
Ambient Background Concentrations	ABC
Added Contaminant Limits	ACL
Asbestos Containing Material	ACM
Australian Drinking Water Guidelines	ADWG
Area of Environmental Concern	AEC
Australian Height Datum	AHD
Asbestos Management Plan	AMP
Acid Sulfate Soil	ASS
Above-Ground Storage Tank	AST
Below Ground Level	BGL
Benzo(a)pyrene Toxicity Equivalent Factor	BaP TEQ
Bureau of Meteorology	BOM
Benzene, Toluene, Ethylbenzene, Xylene	BTEX
Cation Exchange Capacity	CEC
Contaminated Land Management	CLM
Contaminant(s) of Potential Concern	CoPC
Chain of Custody	COC
Conceptual Site Model	CSM
Development Application	DA
Dial Before You Dig	DBYD
Data Quality Indicator	DQI
Data Quality Objective	DQO
Detailed Site Investigation	DSI
Ecological Investigation Level	EIL
Ecological Screening Level	ESL
Environmental Management Plan	EMP
Excavated Natural Material	ENM
Environment Protection Authority	EPA
Environmental Site Assessment	ESA
Fibre Cement Fragment(s)	FCF
General Approval of Immobilisation	GAI
Health Investigation Level	HILs
Health Screening Level	HSL
Health Screening Level-Site Specific Assessment	HSL-SSA
International Organisation of Standardisation	ISO
JK Environments	JKE
Lab Control Spike	LCS
Light Non-Aqueous Phase Liquid	LNAPL
Map Grid of Australia	MGA
National Association of Testing Authorities	NATA
National Environmental Protection Measure	NEPM
Organochlorine Pesticides	OCP
Organophosphate Pesticides	OPP
Polycyclic Aromatic Hydrocarbons	PAH
Potential ASS	PASS
Polychlorinated Biphenyls	PCBs
Per- and Polyfluoroalkyl Substances	PFAS
Photo-ionisation Detector	PID
Protection of the Environment Operations	POEO
Practical Quantitation Limit	PQL
Quality Assurance	QA
Quality Control	QC



Remediation Action Plan	RAP
Relative Percentage Difference	RPD
Site Assessment Criteria	SAC
Sampling, Analysis and Quality Plan	SAQP
Site Audit Statement	SAS
Site Audit Report	SAR
Site Specific Assessment	SSA
Source, Pathway, Receptor	SPR
Specific Contamination Concentration	SCC
Standard Penetration Test	SPT
Standing Water Level	SWL
Trip Blank	TB
Toxicity Characteristic Leaching Procedure	TCLP
Total Recoverable Hydrocarbons	TRH
Trip Spike	TS
Upper Confidence Limit	UCL
United States Environmental Protection Agency	USEPA
Underground Storage Tank	UST
Virgin Excavated Natural Material	VENM
Volatile Organic Compounds	VOC
World Health Organisation	WHO
Work Health and Safety	WHS
<b>Units</b>	
Litres	L
Metres BGL	mBGL
Metres	m
Millivolts	mV
Millilitres	ml or mL
Milliequivalents	meq
micro Siemens per Centimetre	$\mu\text{S}/\text{cm}$
Micrograms per Litre	$\mu\text{g}/\text{L}$
Milligrams per Kilogram	$\text{mg}/\text{kg}$
Milligrams per Litre	$\text{mg}/\text{L}$
Parts Per Million	ppm
Percentage	%
Percentage weight for weight	%w/w

## 1 INTRODUCTION

Hannas Contracting Services Pty Ltd ('the client') commissioned JK Environments (JKE) to undertake a Preliminary (Stage 1) Site Investigation (PSI) for the proposed industrial development at 101-105 Old Pittwater Road, Brookvale, NSW ('the site'). The purpose of the investigation is to make a preliminary assessment of site contamination. The site location is shown on Figure 1 and the investigation was confined to the site boundaries as shown on Figure 2.

This report has been prepared to support the lodgement of a Development Application (DA) for the proposed industrial development, with regards to State Environmental Planning Policy (Resilience and Hazards) 2021<sup>1</sup>.

A geotechnical investigation was undertaken in conjunction with this PSI by JK Geotechnics (JKG). The results of the geotechnical investigation are presented in a separate report (Ref: 34695PHrpt, dated 28 February 2022)<sup>2</sup>. This report should be read in conjunction with the JKG report.

### 1.1 Proposed Development Details

Based on the provided information, JKE understand that the proposed development will include the demolition of existing structures and the construction of a two-story industrial warehouse development over a single basement level. Excavation to depths of approximately 6.5m below ground level (BGL) is anticipated for the construction of the basement.

Development plans provided to JKE are attached in the appendices.

### 1.2 Aims and Objectives

The primary aims of the investigation were to identify any past or present potentially contaminating activities at the site, identify the potential for site contamination, and make a preliminary assessment of the soil and groundwater contamination conditions. The objectives were to:

- Provide an appraisal of the past site use(s) based on a review of historical records;
- Assess the current site conditions and use(s) via a site walkover inspection;
- Identify potential contamination sources/areas of environmental concern (AEC) and contaminants of potential concern (CoPC);
- Assess the soil contamination conditions via implementation of a preliminary sampling and analysis program;
- Prepare a conceptual site model (CSM);
- Assess the potential risks posed by contamination to the receptors identified in the CSM (Tier 1 assessment);
- Provide a preliminary waste classification for off-site disposal of soil;
- Assess whether the site is suitable or can be made suitable for the proposed development (from a contamination viewpoint); and
- Assess whether further intrusive investigation and/or remediation is required.

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<sup>1</sup> State Environmental Planning Policy (Resilience and Hazards) 2021 (NSW)

<sup>2</sup> JKG, (2022). Report to Hannas Contracting Services Pty Ltd on Preliminary Geotechnical Investigation for Proposed Industrial Development at 101-105 Old Pittwater Road, Brookvale, NSW. (referred to as JKG report)



### 1.3 Scope of Work

The investigation was undertaken generally in accordance with a JKE proposal (Ref: EP55630PR) of 14 December 2021 and written acceptance in the form of a purchase order (569-14) from the client of 12 January 2022. The scope of work included the following:

- Review of site information, including background and site history information from various sources outlined in the report;
- Preparation of a CSM;
- Design and implementation of a sampling, analysis and quality plan (SAQP);
- Interpretation of the analytical results against the adopted Site Assessment Criteria (SAC);
- Data Quality Assessment; and
- Preparation of a report including a Tier 1 risk assessment.

The scope of work was undertaken with reference to the National Environmental Protection (Assessment of Site Contamination) Measure 1999 as amended (2013)<sup>3</sup>, other guidelines made under or with regards to the Contaminated Land Management Act (1997)<sup>4</sup> and SEPP (Resilience and Hazards) 2021. A list of reference documents/guidelines is included in the appendices.

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<sup>3</sup> National Environment Protection Council (NEPC), (2013). *National Environmental Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)*. (referred to as NEPM 2013)

<sup>4</sup> Contaminated Land Management Act 1997 (NSW) (referred to as CLM Act 1997)

## 2 SITE INFORMATION

### 2.1 Site Identification

Table 2-1: Site Identification

<b>Current Site Owner (certificate of title):</b>	Maydare Pty Limited and Veloday Pty Limited
<b>Site Address:</b>	101-105 Old Pittwater Road, Brookvale, NSW
<b>Lot &amp; Deposited Plan:</b>	Lots 1 to 4 in DP 402645
<b>Current Land Use:</b>	Commercial/industrial
<b>Proposed Land Use:</b>	Industrial
<b>Local Government Authority:</b>	Northern Beaches Council
<b>Current Zoning:</b>	IN1 – General Industrial
<b>Site Area (m<sup>2</sup>) (approx.):</b>	4,200
<b>RL (AHD in m) (approx.):</b>	12-16
<b>Geographical Location (decimal degrees) (approx.):</b>	Latitude: -33.76549 Longitude: 151.26232
<b>Site Location Plan:</b>	Figure 1
<b>Sample Location Plan:</b>	Figure 2

### 2.2 Site Location and Regional Setting

The site is located in a predominantly commercial and industrial area of Brookvale and is bound by Old Pittwater Road to the west. The site is located approximately 170m to the west of Brookvale Creek.

### 2.3 Topography

The site is located in relatively flat topography, beyond the toe of an east-facing hillside. The site itself had an overall slope of approximately 2° down to the east, with localised steeper slopes of approximately 8° at the eastern and western ends of the internal driveway. Parts of the site appear to have been levelled to account for the slope and accommodate the existing development.

### 2.4 Site Inspection

A walkover inspection of the site was undertaken by JKE on 22 January 2022. The inspection was limited to accessible areas of the site and immediate surrounds. An internal inspection of buildings was not undertaken. Selected site photographs obtained during the inspection are attached in the appendices.

A summary of the inspection findings is outlined in the following subsections:

#### **2.4.1 Current Site Use and/or Indicators of Former Site Use**

At the time of the inspection, the majority of site was occupied by warehouses and smaller commercial/industrial units. The current and recent tenancies included: a marble and stone worker warehouse and associated showrooms; a kayak retailer (Epic Kayaks); a retail display manufacturer (The Efficiency Group); a landscaping business (Formed Gardens); a pipe repairer (RSM lining Supplies); and a retail research and virtual design company (Store Lab).

#### **2.4.2 Buildings, Structures and Roads**

The site was occupied by two rendered brick, two-storey offices fronting Old Pittwater Road, connected to two single-storey warehouses extending to the east. Six connected single-storey warehouses were located in a 'U'-shape within the east of the site. The remainder of the site was sealed with brick or concrete pavement.

The brick offices appeared to be in fair condition, with some evidence of moisture damage to the render. The warehouse in the north-western portion of the site was of steel construction, with corrugated steel wall panels and fibre-cement board infill panels. The roofing appeared to mostly comprise corrugated fibre cement sheeting suspected to be asbestos containing material (ACM). The wall sheeting along the southern wall of the warehouse was rusted along the base.

The warehouse in the south-western portion of the site appeared to be of concrete panel construction with corrugated steel infill panels. The roofing appeared to be of steel construction. The warehouse appeared in generally good condition.

The remaining warehouses appeared to be of steel construction with corrugated steel wall panels and roof sheeting. The warehouses appeared to be in generally good condition.

The concrete driveway extended through the centre of the site between the two large warehouses, with a large hardstand area in the centre of the site. The concrete pavement was in fair condition, with large cracks observed. The brick pavers were located in the west of the site and were used for carparking spaces. The brick pavers appeared in fair condition with some cracked/broken pavers and some heaving observed.

#### **2.4.3 Boundary Conditions, Soil Stability and Erosion**

The western boundary of the site is open to Old Pittwater Road however, chain mesh gates with barbed wire upper strands were located across the driveway prohibiting access beyond the office buildings. The southern and eastern boundaries were fenced with chain mesh fencing, though the existing buildings formed an effective boundary with a narrow concrete walkway between the buildings and fence. The northern boundary was formed by the adjacent building.

No evidence of soil erosion was observed at the site boundaries.

#### **2.4.4 Presence of Drums/Chemical Storage and Waste**

Timber, plastic and stone wastes were observed in, and adjacent to, a skip bin located within the driveway area. Two dumpster-style bins (residual waste) were located within the north and east of the site. A few timber sleepers and pallets were also stored on the concrete pavement in the north of the site. These wastes were not considered to represent sources of potential contamination.

Solvents and fluids associated with stone cutting/polishing were stored within a storage area in the north of the site. Close inspection of this area was not undertaken and the types of fluids/solvents could not be reviewed. JKE note the quantities were small (<20L containers) and that no stains were observed on the concrete pavement in this area. On this basis, the storage area of the solvents/fluids were considered unlikely to represent a potential source of site contamination.

#### **2.4.5 Evidence of Cut and Fill**

The site appeared to have been filled to account for the existing development. Exposed soils were only visible within the garden in the west of the site.

#### **2.4.6 Visible or Olfactory Indicators of Contamination (odours, spills etc)**

No visible staining of pavements or soils, or evidence of spills was observed. Further, no evidence of former or current aboveground or underground storage tanks (USTs), such as dip/fill points and vent lines, were observed.

#### **2.4.7 Drainage and Services**

A drainage channel was observed to run in an east/west direction along the centre of the driveway. The drainage channel discharged into a stormwater drain within the east of the site. The stormwater drains were assumed to connect to regional stormwater infrastructure and likely discharge to Brookvale Creek.

A sewer access point was observed in the north of the site, centrally along the northern boundary. The DBYD plans indicated the sewer main continued east into the neighbouring property. This is discussed further in Section 2.6.

#### **2.4.8 Sensitive Environments**

Sensitive environments such as wetlands, ponds, creeks or extensive areas of natural vegetation were not identified on site or in the immediate surrounds.

#### **2.4.9 Landscaped Areas and Visible Signs of Plant Stress**

Landscaping was limited to a small garden in the north-western corner of the site. The garden comprised two large native trees adjacent to the western boundary and a few smaller native trees adjacent to the northern boundary wall. Grass cover was observed surrounding the two large trees. The vegetation appeared in good health based on a cursory inspection, with no evidence of significant dieback or stress. Exposed soils were

observed within the grassed area, though was considered to be likely attributed to overshadowing and poor maintenance rather than an indication of significant soil contamination.

## 2.5 Surrounding Land Use

During the site inspection, JKE observed the following land uses in the immediate surrounds:

- North – a commercial unit/warehouse complex. Tenants included: a self-storage facility (Aussie Strata Storage); and a child care centre;
- South – Commercial/industrial unit complex. Tenants included: a café (Industrial Espresso Bar); a South African food importer/outlet (Biltong); a laundry and ironing service (Big Sister); a sign writer (Absolute Sign Solutions); and an architectural/structural engineer (Cucer Engineering);
- East – An oils and lubricant manufacturer (Harrison Manufacturing); and
- West – Old Pittwater Road and a commercial warehouse and office complex beyond. The Professional Association of Diving Instructors (PADI) were observed to be a tenant.

JKE is of the opinion that the adjacent oils and lubricant manufacturer to the east of the site is a potential off-site contamination source as the manufacturer is adjacent to the site boundary and a sewer main is located beneath both properties (this is discussed further in Section 2.6).

## 2.6 Underground Services

The 'Dial Before You Dig' (DBYD) plans were reviewed for the investigation in order to establish whether any major underground services exist at the site or in the immediate vicinity that could act as a preferential pathway for contamination migration. The DBYD plans indicated that a sewer main extends through the north of the site in an east-west direction, and along the eastern boundary in a north-south direction. The sewer is understood to be at a depth of approximately 1.5mBGL and also extends through the neighbouring property which is an oil and lubricants manufacturer. Considering the geological conditions (discussed in Section 3) there is a potential for the sewer trench to act as a preferential pathway for contamination migration (i.e. through relatively permeable backfill). The location of the sewer main is shown on Figure 2 attached in the appendices.

## 2.7 Local Meteorology

Key meteorological data for Castle Cove (Rosebridge Avenue) weather station (approximately 5.6km west-south-west of the site) available on the Bureau of Meteorology (BOM)<sup>5</sup> website has been reviewed and JKE note the following:

- The highest mean rainfall occurs in March, with a total of 153.1mm;
- The lowest mean rainfall occurs in September, with a total of 68.9mm; and
- In the two-week lead up to the JKE site inspection, a total of 125mm of rainfall was recorded.

<sup>5</sup>[http://www.bom.gov.au/jsp/ncc/cdio/weatherData/av?p\\_nccObsCode=136&p\\_display\\_type=dailyDataFile&p\\_startYear=&p\\_c=&p\\_stn\\_num=066080](http://www.bom.gov.au/jsp/ncc/cdio/weatherData/av?p_nccObsCode=136&p_display_type=dailyDataFile&p_startYear=&p_c=&p_stn_num=066080) visited on 22 February 2022

## **2.8 Section 10.7 Planning Certificate**

The section 10.7 (2 and 5) planning certificates were reviewed for the investigation. Copies of the certificates are attached in the appendices. A summary of the relevant information is outlined below:

- The land is not deemed to be: significantly contaminated; subject to a management order; subject of an approved voluntary management proposal; or subject to an on-going management order under the provisions of the CLM Act 1997;
- The land is not the subject of a Site Audit Statement (SAS); and
- The land is not located in a heritage conservation area.

### **3 GEOLOGY AND HYDROGEOLOGY**

#### **3.1 Regional Geology**

Regional geological information was reviewed for the investigation. The information was sourced from the Lotsearch report attached in the appendices. The report indicates that the site is underlain by Hawkesbury Sandstone, which typically consists of medium to coarse grained quartz sandstone with minor shale and laminite lenses. The site is near the contact of overlying Quaternary aged deposits of silty to peaty quartz sand, silty and clay. JKE note that the mapped boundaries between differing stratigraphical units are approximate.

Two dykes, trending north-west to south-east, are mapped approximately 200m to the west/south-west and 500m to the north-west of the site respectively.

#### **3.2 Acid Sulfate Soil (ASS) Risk and Planning**

A review of the acid sulfate soil (ASS) risk map prepared by Department of Land and Water Conservation (1997)<sup>6</sup> indicated that the site is not located within a risk area.

ASS information presented in the Lotsearch report indicated that the site is not located within a ASS risk planning area.

#### **3.3 Hydrogeology**

Hydrogeological information presented in the Lotsearch report indicated that the regional aquifer on-site and in the areas immediately surrounding the site includes porous, extensive aquifers of low to moderate productivity. There was a total of 30 registered bores within the report buffer of 2,000m. In summary:

- The nearest registered bore was located approximately 115m to the east of the site. This was utilised for monitoring purposes;
- The majority of the bores were registered for monitoring purposes;
- There were no nearby bores (i.e. within 300m) registered for domestic or irrigation uses; and
- The drillers log information from the closest registered bores typically identified fill, sand and/or clay soil to depths of 1.4-2.5m, underlain by siltstone. Standing water levels (SWLs) were not recorded for the nearest bores.

The information reviewed for the PSI indicates that the subsurface conditions at the site may include low permeability (residual) soils over rock, or moderate to high permeability (alluvial) soils overlying relatively deep bedrock. Abstraction and use of groundwater at the site or in the immediate surrounds may be viable under these conditions, however the use of groundwater is not proposed as part of the development. There is a reticulated water supply in the area and consumption of groundwater is not expected to occur.

Considering the local topography and surrounding land features, JKE anticipate groundwater to flow towards the east.

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<sup>6</sup> Department of Land and Water Conservation, (1997). *1:25,000 Acid Sulfate Soil Risk Map (Series 9130N2, Ed 2)*

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### **3.4 Receiving Water Bodies**

Surface water bodies were not identified in the immediate vicinity of the site. The closest surface water body is Brookvale Creek located approximately 170m to the east of the site. This is down-gradient from site and is considered to be a potential receptor.



## 4 SITE HISTORY INFORMATION

### 4.1 Review of Historical Aerial Photographs

Historical aerial photographs were reviewed for the investigation. The information was sourced from the Lotsearch report. JKE has reviewed the photographs and summarised relevant information in the following table:

Table 4-1: Summary of Historical Aerial Photographs

Year	Details
1930	<p><b>On-site:</b> The site appeared to be part of a larger property and likely used for farming/agricultural purposes. A track/driveway was visible along the southern boundary of the site and a shed was visible in the west of the site. A few smaller structures were visible in the south-east of the site. The north-eastern portion of the site appeared to be grassed. Old Pittwater Road bound the site to the west.</p> <p><b>Off-site:</b> The surrounds appeared similar to the site and were most likely used for grazing and/or market garden purposes.</p>
1940	The site and surrounding features appeared generally similar to the previous photograph. Parts of the site appeared to be used for market gardens. The shed in the west of the site appeared to have been demolished and there appeared to be additional structures/sheds in the south-east of the site.
1943	The site and surrounding features appeared generally similar to the previous photograph. It is possible that market garden use of the site had ceased.
1951	The site and surrounding features appeared generally similar to the previous photograph. The small structures in the south-east of the site had been replaced by one larger shed.
1956	<p><b>On-site:</b> A large shed had been constructed in the south-eastern corner of the site. The site otherwise appeared generally similar to the previous photograph.</p> <p><b>Off-site:</b> Several farmhouses had been constructed on the nearby properties. A large building with tree-lined driveways had been constructed on land to the north-west of the site.</p>
1961	<p><b>On-site:</b> The site had been redeveloped for commercial/industrial purposes. Three large warehouse-type buildings had been constructed in the north-east, north-west and south of the site. The southern building extended from near the road to the existing large shed in the south-eastern corner of the site. The remainder of the site appeared to be sealed with concrete pavement.</p> <p><b>Off-site:</b> A few large warehouse-type buildings had been constructed on properties to the north, north-west and south-west of the site. The farming properties remained to the south and west of the site. Farming land to the north-west of the site (beyond Brookvale Creek) had been cleared and a new roadway had been constructed.</p>
1965	<p><b>Onsite:</b> The site appeared generally similar to the previous photograph.</p> <p><b>Offsite:</b> Additional warehouse-type buildings had been constructed to the north-west of the site. The land adjacent to the north of the site, and to the west of the site had been cleared and construction works were evident.</p>
1970	<p><b>Onsite:</b> The site appeared generally similar to the previous photograph.</p> <p><b>Off-site:</b> The surrounds were predominantly occupied by warehouse-type buildings and associated hardstand/carparking areas. A commercial/industrial unit complex had been constructed on the</p>

Year	Details
	land adjacent to the south of the site. A few grassed/vacant properties remained to the south/south-west of the site.
1978	<p><b>On-site:</b> A small extension/building was visible in the north of the site, near the centre of the northern boundary. The site otherwise appeared generally similar to the previous photograph.</p> <p><b>Off-site:</b> Additional commercial/industrial buildings had been constructed on previously vacant land in the wider surrounds. Some additional extensions to commercial/industrial buildings in the surrounds were visible. The Warringah Mall building had been extended and was visible to the south-east of the site.</p>
1982	The site and surrounds appeared generally similar to the previous photograph.
1986	<p><b>On-site:</b> The site appeared generally similar to the previous photograph.</p> <p><b>Off-site:</b> A large warehouse/office building and multi-storey carpark had been constructed on the remaining vacant land to the south-west of the site. Some warehouse-type buildings in the surrounds had been replaced with larger buildings and/or commercial/industrial unit complexes.</p>
1991	<p><b>On-site:</b> A commercial unit had been constructed in the north-east of the site.</p> <p><b>Off-site:</b> Some properties in the surrounds were redevelopment larger warehouses/offices and commercial/industrial units was visible.</p>
1994	The site and surrounds and surrounds appeared generally similar to the previous photograph. An additional commercial unit had been constructed in the north-east of the site.
2000	<p><b>On-site:</b> A covered area/commercial unit had been constructed between the warehouse in the north-west of the site and the commercial units in the north-east of the site.</p> <p><b>Off-site:</b> The surrounds appeared generally similar to the previous photograph. The Warringah Mall carpark had been upgraded and new access ramps were visible to the south of the site.</p>
2005	The site and surrounds appeared generally similar to the previous photograph. Some redevelopment for commercial/industrial unit complexes was visible to the west of the site.
2011	<p><b>On-site:</b> The site appeared generally similar to the previous photograph.</p> <p><b>Off-site:</b> A second warehouse-type building had been constructed on the property adjacent to the east of the site, and the remaining of the property appeared sealed with asphaltic concrete (AC)/concrete pavement. Additional redevelopment/extensions of commercial/industrial buildings were visible in the surrounds.</p>
2016	The site and surrounds appeared generally similar to the previous photograph. The warehouse-type building on the property adjacent to the north of the site had been demolished and a commercial/industrial unit complex was under construction.
2021	The site and surrounds appeared generally similar to the previous photograph. The construction on the property adjacent to the north of the site had been completed.

## 4.2 Review of Historical Land Title Records

Historical land title records were reviewed for the investigation. The record search was undertaken by InfoTrack. Copies of the title records are attached in the appendices. The title records indicate the following:

- Prior to 1954, the property was owned by individuals. The individuals included: a married woman; a maintenance person; an engineer; and a paint manufacturer;
- In 1954, the property was acquired by the Interstate Rubber Company Pty Limited; and
- The property was subdivided in 1957 and has been owned by various corporations.

The historical land title records identified the site was previously owned by a paint manufacturer, and a rubber company. Other manufacturers (undefined) were also noted in the title records. JKE is of the opinion that these land uses (if they had been carried out on site) could have resulted in contamination, and are considered further in the CSM.

## 4.3 Review of Council Records

Council records were sourced under an informal access to information request and were reviewed for the investigation. The council records indicate the following:

- The factories were built prior to 1962 and Council did not have records of the original development consent;
- An application was lodged for a car detailer in 1975. This purpose required a DA. JKE is unaware of whether a DA was subsequently granted;
- A display equipment business (Efficiency Displays) was registered at the site in 1976;
- A cabinet manufacturer (Supreme Kitchens) was registered at the site in 1982;
- An engineering business (Capricorn Designs) was registered at the site in 1982;
- A manufacturer of display stands (M & VR Risbridger) was registered at the site in 1984;
- An application to register a factory for spray painting purposes (Gemini Fabrications) was received in 1985. This purpose required a DA. JKE is unaware of whether a DA was subsequently granted;
- A manufacturer of display equipment (Efficiency Displays Marketing) was registered at the site in 1985;
- A metal products manufacturer (Capricorn Designs) was registered at the site in 1985; and
- A light repetition steel work company (Efficiency Manufacturing) was registered at the site in 1986.

The council records for the property adjacent to the north of the site (97-99 Old Pittwater Road) were also reviewed for the investigation. The records indicate the following:

- Consent was granted in 1965 for the installation of a petrol pump and UST (65/233);
- Consent was granted in 1980 for the installation of a UST (80/163); and
- A building application (BA) was lodged in 1992 for refurbishments to a showroom and administration block due to fire damage.

## 4.4 SafeWork NSW Records

SafeWork NSW records in relation to the registered storage of dangerous goods were reviewed for the investigation. Copies of relevant documents are attached in the appendices. A summary of the relevant information is provided in the following table:

Table 4-2: Summary of SafeWork NSW Records

Date	Record Number	Licence Details
22/01/2002	35/035629	2x Depots. Depot 1 (Flammable): 500L liquified petroleum gas (LPG) tank and 1,000L acetylene tank. Depot 2 (Compressed Non-Flammable): 53.4L Argoshield cylinder, and 18.6L oxygen cylinder.

The dangerous goods stored on-site were considered to not represent potential sources of site contamination.

#### 4.5 NSW EPA and Department of Defence Records

A review of the NSW EPA and Department of Defence databases was undertaken for the PSI. Information from the following databases were sourced from the Lotsearch report:

- Records maintained in relation to contaminated land under Section 58 of the CLM Act 1997;
- Records of sites notified in accordance with the Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997 (2015)<sup>7</sup>;
- Licensed activities under the Protection of the Environment Operations Act (1997)<sup>8</sup>;
- Sites being investigated under the NSW EPA per-and polyfluoroalkyl substances (PFAS) investigation program;
- Sites being investigated by the Department of Defence for PFAS contamination; and
- Sites being managed by the Department of Defence for PFAS contamination.

The search included the site and surrounding areas in the report buffer. A summary of the information is provided below:

Table 4-3: NSW EPA and Department of Defence Records

Records	On-site	Off-site
Records under Section 58 of the CLM Act 1997	None	None
Records under the Duty to Report Contamination under Section 60 of the CLM Act 1997	None	There were four properties listed in the report buffer. The properties included Warringah Mall and a petroleum product manufacturer, adjacent to the east of the site, a dry cleaner business approximately 180m to the south and cross-gradient of the site, and a bus depot approximately 570m to the east and down-gradient of the site.  Due to the distances and cross/down-gradient locations, these properties were not considered to represent potential sources of site contamination.
Licences under the POEO Act 1997	None	Current licences were identified for two properties within the report buffer. The licences related to the production of petroleum products and

<sup>7</sup> NSW EPA, (2015). *Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997*. (referred to as Duty to Report Contamination)

<sup>8</sup> Protection of the Environment Operations Act 1997 (NSW) (referred to as POEO Act 1997)

Records	On-site	Off-site
		<p>fuel production at the property adjacent to the east of the site, and the storage and recovery of paper wastes at a property approximately 180m to the north and cross-gradient of the site.</p> <p>The petroleum products and fuel production at the property adjacent to the east of the site was considered to represent a potential source of contamination due to the proximity to the site.</p> <p>The paper waste storage/recovery facility was not considered to represent a potential source of site contamination.</p>
Records relating to the NSW EPA PFAS Investigation Program	None	None
Records relating to the Department of Defence PFAS management and investigation programs	None	None

#### 4.6 Historical Business Directory and Additional Lotsearch Information

Historical business records and other relevant information were reviewed for the investigation. The information was sourced from the Lotsearch report and summarised in the following table:

Table 4-4: Historical Business Directory and other Records

Records	On-site	Off-site
Historical dry cleaners, motor garages and service stations	None	There were 10 properties listed in the report buffer between 1950-1990. The nearest property was Warringah Mall, which included several dry cleaner businesses, motor garages and service stations. JKE note that the carpark for Warringah Mall is adjacent to the site, the shops of the mall themselves are approximately 80m down-gradient of the site. All of the identified properties were down-gradient or cross-gradient of the site. Due to the distance and down/cross-gradient locations, the properties are not considered to represent off-site sources of contamination.
Other historical businesses that could represent potential sources of contamination	The records identified several historical businesses that could represent potential sources of contamination. The businesses included: metal workers and iron workers; the use of protective coatings/powder coating; furniture repairs and polishing; and plastic	Several historical businesses were identified in the report buffer. The distance and direction/gradient from the site of the businesses were considered. The records identified the following business activities in close proximity and/or up-gradient of the site: oil/lubricant production; bituminous tar manufacture; paint manufacture; panel beating (spray painting); boat building/repairs;

Records	On-site	Off-site
	fabrication. The businesses are considered further in the CSM.	insecticide and cleaning chemical manufacture; commercial printing; and ferrous and non-ferrous foundries. These business activities are considered further in the CSM.
National waste management site database	None	None
National liquid fuel facilities	None	None
Mapped heritage items	None	Various heritage items were mapped in the report buffer. These are not considered to have any relevance in the context of the PSI objectives.
Mapped ecological constraints	None	Various ecological items were mapped in the report buffer. These are not considered to have any relevance in the context of the PSI objectives.
Mapped naturally occurring asbestos	None	None

#### 4.7 Summary of Site History Information

A time line summary of the historical land uses and activities is presented in the following table. The information presented in the table is based on a weight of evidence assessment of the site history documentation and observations made by JKE.

Table 4-5: Summary of Historical Land Uses / Activities

Year(s)	On-site - Potential Land Use / Activities	Off-site - Potential Land Use / Activities
1930- early 1950s	Agricultural (grazing and market gardens).	Agricultural (grazing and market gardens).
Mid-1950s	Industrial (paint production, rubber production).	Industrial development of surrounds commenced.
1960s – current	The site was redeveloped for industrial uses. The businesses at the site included: metal workers and iron workers; the use of protective coatings/powder coating; furniture repairs and polishing; plastic fabrication; importer/distribution and stone works.	<p>1965: a DA for a UST and fuel pump installation at the property adjacent to the north was approved.</p> <p>From the late 1960s/1970s, manufacture of bituminous tar products, paints, oils and lubricants, and insecticide products, and commercial printing and panel beating (spray painting) businesses were listed</p> <p>1980: A DA for a UST installation at the property adjacent to the north was approved.</p>

Year(s)	On-site - Potential Land Use / Activities	Off-site - Potential Land Use / Activities
		<p>From the 1980s, additional industrial businesses listed included boat building/repairs and ferrous and non-ferrous foundries.</p> <p>1992: A building fire was recorded at the property adjacent to the north of the site.</p>

#### 4.8 Integrity of Site History Information

The majority of the site history information was obtained from government organisations as outlined in the relevant sections of this report. The veracity of the information from these sources is considered to be relatively high. A certain degree of information loss can be expected given the lack of specific land use details over time. JKE have relied upon the Lotsearch report and have not independently verified any information contained within. However, it is noted that the Lotsearch report is generated based on databases maintained by various government agencies and is expected to be reliable.

## 5 CONCEPTUAL SITE MODEL

NEPM (2013) defines a CSM as a representation of site related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The CSM for the site is presented in the following sub-sections and is based on the site information (including the site inspection information) and the review of site history information. Reference should also be made to the figures attached in the appendices.

A review of the CSM in relation to source, pathway and receptor (SPR) linkages has been undertaken as part of the Tier 1 risk assessment process, as outlined in Section 10.

### 5.1 Potential Contamination Sources/AEC and CoPC

The potential contamination sources/AEC and CoPC are presented in the following table:

Table 5-1: Potential (and/or known) Contamination Sources/AEC and Contaminants of Potential Concern

Source / AEC	CoPC
<u>Fill material</u> – The site appears to have been historically filled to achieve the existing levels. The fill may have been imported from various sources and could be contaminated.	Heavy metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc), petroleum hydrocarbons (referred to as total recoverable hydrocarbons – TRHs), benzene, toluene, ethylbenzene and xylene (BTEX), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), organophosphate pesticides (OPPs), polychlorinated biphenyls (PCBs) and asbestos.
<u>Historical agricultural use</u> – The site appears to have been used for agricultural purposes, including market gardens. This could have resulted in contamination across the site via use of machinery, application of pesticides and building/ demolition of various structures. Irrigation pipes made from asbestos cement may also be associated with this AEC.	Heavy metals, TRH, PAHs, OCPs, PCBs and asbestos  JKE note that OCPs only became commercially available in the 1940s. Prior to this time pesticides were predominantly heavy metal compounds.
<u>Use of pesticides</u> – Pesticides may have been used beneath the buildings and/or around the site.	Heavy metals and OCPs
<u>Hazardous Building Material</u> – Hazardous building materials may be present as a result of former building and demolition activities. These materials may also be present in the existing buildings/ structures on site.	Asbestos, lead and PCBs  A HAZMAT survey <sup>9</sup> of the current (2022) buildings was undertaken by JKE following the fieldworks for this investigation. Reference should be made to the HAZMAT report.
<u>Industrial use of the site</u> – the historical information indicated that the site was likely used for various activities, including: paint production; rubber and plastic production; metal and iron work; protective coatings; and furniture repairs. The site inspection identified the site is currently used for stone cutting and polishing.	Heavy metals, BTEX, TRH, PAH, VOCs, phenolics, carbon black, solvents and per-and polyfluoroalkyl substances (PFAS).

<sup>9</sup> JKE, (2022). Report to Hannas Contracting Services Pty Ltd on Hazardous Building Materials Survey for Proposed Industrial Development at 101-105 Old Pittwater Road, Brookvale, NSW (Ref: E34695PLrpt-HAZ) (referred to as HAZMAT Report)



Source / AEC	CoPC
There is potential for these activities to cause contamination at the site.	
<p><u>Off-site area 1</u> – The property adjacent to the north and cross-gradient of the site was historically granted consent for the installation of USTs in the 1960s and 1980s. There is potential for leaks/spills associated with the USTs to have migrated onto the site. The current status of the USTs (i.e. in-use, abandoned, remediated, removed etc) is not known.</p> <p>The property adjacent to the north was also historically damaged by fire during the 1990s. There is potential for run-off from fire water to have migrated onto the site.</p>	<p>Lead, TRH, BTEX and PFAS.</p> <p>PFAS may be associated with the aqueous film-forming foam (AFFF) used during fire-fighting activities.</p>
<p><u>Off-site area 2</u>– The property adjacent to the east and down-gradient of the site manufacturers oils and lubricants, and historically manufactured paints and solvents. Though the property is down-gradient of the site, there is a sewer main that runs through both properties and may act as a preferential pathway for contaminant migration. This is discussed further in Section 5.2.</p>	Heavy metals, TRH, BTEX, PAHs, VOCs, solvents and PFAS.
<p><u>Off-site area 3</u> – The property adjacent to the south and cross-gradient of the site was historically used for commercial printing activities. A commercial printer was also historically located to the south-west and up/cross-gradient of the site.</p>	Heavy metals, VOCs and PFAS.
<p><u>Off-site area 4</u> – The historical records indicated that a ferrous and non-ferrous foundry, a boat builder/repairer and paint manufacturer (including marine paints) were historically located to the north and cross-gradient of the site. Though cross-gradient of the site, there is potential for leaks/spills to migrate to the site via the sewer main trench/backfill, which connects the properties.</p>	Heavy metals, BTEX, TRH, chloride, fluoride, sulfate, phenolics, PFAS and tributyltin (TBT).
<p><u>Off-site area 5</u> – The historical records indicate that an insecticide manufacturer was historically located to the south-west and up/cross-gradient of the site. There is potential for leaks/spills to enter the groundwater and migrate onto (beneath) the site.</p>	Arsenic, lead, OCP, OPP, carbamates, synthetic pyrethroids, solvents and PFAS.

## 5.2 Mechanism for Contamination, Affected Media, Receptors and Exposure Pathways

The mechanisms for contamination, affected media, receptors and exposure pathways relevant to the potential contamination sources/AEC are outlined in the following CSM table:

Table 5-2: CSM

<b>Potential mechanism for contamination</b>	<p>The potential mechanisms for contamination from on-site sources are most likely to include 'top-down' impacts and spills. There is a potential for sub-surface releases to have occurred if deep fill (or other buried industrial infrastructure) is present, although this is considered to be the least likely mechanism for contamination.</p> <p>The mechanisms for contamination from off-site sources could have occurred via 'top down' impacts and spills, or sub-surface release. Impacts to the site could occur via the migration of contaminated groundwater.</p>
<b>Affected media</b>	Soil, soil vapour and groundwater have been identified as potentially affected media.
<b>Receptor identification</b>	<p>Human receptors include site occupants/users (predominantly adults), construction workers and intrusive maintenance workers. Off-site human receptors include adjacent land users (including adults and children) and recreational water users within Brookvale Creek and the down-stream water body.</p> <p>Ecological receptors include terrestrial organisms and plants within unpaved areas (if included), and freshwater ecology in Brookvale Creek.</p>
<b>Potential exposure pathways</b>	<p>Potential exposure pathways relevant to the human receptors include ingestion, dermal absorption and inhalation of dust (all contaminants) and vapours (volatile TRH, naphthalene, BTEX and VOCs). The potential for exposure would typically be associated with the construction and excavation works, and future use of the site. Potential exposure pathways for ecological receptors include primary/direct contact and ingestion.</p> <p>Exposure during future site use could occur via direct contact with soil in unpaved areas such as gardens, inhalation of airborne asbestos fibres during soil disturbance, or inhalation of vapours within enclosed spaces such as buildings and basements.</p>
<b>Potential exposure mechanisms</b>	<p>The following have been identified as potential exposure mechanisms for site contamination:</p> <ul style="list-style-type: none"> <li>• Vapour intrusion into the proposed basement and/or building (either from soil contamination or volatilisation of contaminants from groundwater);</li> <li>• Contact (dermal, ingestion or inhalation) with exposed soils in landscaped areas and/or unpaved areas (if included); and</li> <li>• Migration of groundwater off-site and into nearby water bodies, including aquatic ecosystems and those being used for recreation.</li> </ul>
<b>Presence of preferential pathways for contaminant movement</b>	The sewer main (see Figure 2) and the associated sewer trench/trench backfill is a potential preferential pathway for contaminant migrations. This could occur via groundwater/seepage if present, or via soil/vapour migration through the sewer and/or trench backfill.

## **6 SAMPLING, ANALYSIS AND QUALITY PLAN**

### **6.1 Data Quality Objectives (DQO)**

Data Quality Objectives (DQOs) were developed to define the type and quality of data required to achieve the project objectives outlined in Section 1.2. The DQOs were prepared with reference to the process outlined in Schedule B2 of NEPM (2013). The seven-step DQO approach for this project is outlined in the following sub-sections.

The DQO process is validated in part by the Data Quality Assurance/Quality Control (QA/QC) Evaluation. The Data (QA/QC) Evaluation is summarised in Section 8.1 and the detailed evaluation is provided in the appendices.

#### **6.1.1 Step 1 - State the Problem**

The CSM identified potential sources of contamination/AEC at the site that may pose a risk to human health and the environment. Investigation data is required to assess the contamination status of the site, assess the risks posed by the contaminants in the context of the proposed development/intended land use, and assess whether remediation is required. This information will be considered by the consent authority in exercising its planning functions in relation to the development proposal.

A waste classification is required prior to off-site disposal of excavated soil/bedrock.

#### **6.1.2 Step 2 - Identify the Decisions of the Study**

The objectives of the investigation are outlined in Section 1.2. The decisions to be made reflect these objectives and are as follows:

- Did the site inspection, or does the historical information identify potential contamination sources/AEC at the site?
- Are any results above the SAC?
- Do potential risks associated with contamination exist, and if so, what are they?
- Is remediation required?
- Is the site characterisation sufficient to provide adequate confidence in the above decisions?
- Is the site suitable for the proposed development, or can the site be made suitable subject to further characterisation and/or remediation?

#### **6.1.3 Step 3 - Identify Information Inputs**

The primary information inputs required to address the decisions outlined in Step 2 include the following:

- Site information, including site observations and site history documentation;
- Sampling of potentially affected soils;
- Observations of sub-surface variables such as soil type, photo-ionisation detector (PID) concentrations, odours and staining;
- Laboratory analysis of soils and fibre cement for a pre-established selection of the CoPC identified in the CSM. Analysis of soils for VOCs, phenolics, carbon black, solvents and PFAS did not occur for the PSI; and

- Field and laboratory QA/QC data.

#### **6.1.4 Step 4 - Define the Study Boundary**

The sampling was confined to the site boundaries as shown in Figure 2 and was limited vertically to a depth of approximately 1.5mBGL (spatial boundary). The sampling was completed on 22 January 2022 (temporal boundary). The assessment of potential risk to adjacent land users has been made based on data collected within the site boundary.

Sampling was not undertaken within the existing building footprint due to access constraints.

#### **6.1.5 Step 5 - Develop an Analytical Approach (or Decision Rule)**

##### **6.1.5.1 Tier 1 Screening Criteria**

The laboratory data will be assessed against relevant Tier 1 screening criteria (referred to as SAC), as outlined in Section 7. Exceedances of the SAC do not necessarily indicate a requirement for remediation or a risk to human health and/or the environment. Exceedances are considered in the context of the CSM and valid SPR-linkages.

For this investigation, the individual results have been assessed as either above or below the SAC. Statistical evaluation of the dataset via calculation of mean values and/or 95% upper confidence limit (UCL) values has not been undertaken due to the spatial distribution of the data and the number of samples submitted for analysis.

##### **6.1.5.2 Field and Laboratory QA/QC**

Field QA/QC included analysis of inter-laboratory duplicates, intra-laboratory duplicates, trip spike and trip blank samples. Further details regarding the sampling and analysis undertaken, and the acceptable limits adopted, is provided in the Data Quality (QA/QC) Evaluation in the appendices.

The suitability of the laboratory data is assessed against the laboratory QA/QC criteria which is outlined in the attached laboratory reports. These criteria were developed and implemented in accordance with the laboratory's National Association of Testing Authorities, Australia (NATA) accreditation and align with the acceptable limits for QA/QC samples as outlined in NEPM (2013) and other relevant guidelines.

In the event that acceptable limits are not met by the laboratory analysis, other lines of evidence are reviewed (e.g. field observations of samples, preservation, handling etc) and, where required, consultation with the laboratory is undertaken in an effort to establish the cause of the non-conformance. Where uncertainty exists, JKE typically adopt the most conservative concentration reported (or in some cases, consider the data from the affected sample as an estimate).

##### **6.1.5.3 Appropriateness of Practical Quantitation Limits (PQLs)**

The PQLs of the analytical methods are considered in relation to the SAC to confirm that the PQLs are less than the SAC. In cases where the PQLs are greater than the SAC, a discussion of this is provided.

### 6.1.6 Step 6 – Specify Limits on Decision Errors

To limit the potential for decision errors, a range of quality assurance processes are adopted. A quantitative assessment of the potential for false positives and false negatives in the analytical results is undertaken with reference to Schedule B(3) of NEPM (2013) using the data quality assurance information collected.

Decision errors can be controlled through the use of hypothesis testing. The test can be used to show either that the baseline condition is false or that there is insufficient evidence to indicate that the baseline condition is false. The null hypothesis is an assumption that is assumed to be true in the absence of contrary evidence. For this investigation, the null hypothesis has been adopted which is that, there is considered to be a complete SPR linkage for the CoPC identified in the CSM unless this linkage can be proven not to (or unlikely to) exist. The null hypothesis has been adopted for this investigation.

Quantitative limits on decision errors were not established as the sample plan was not probabilistic.

### 6.1.7 Step 7 - Optimise the Design for Obtaining Data

The most resource-effective design will be used in an optimum manner to achieve the investigation objectives. Adjustment of the investigation design can occur following consultation or feedback from project stakeholders. For this investigation, the design was optimised via consideration of the various lines of evidence used to select the sample locations, the media being sampled, and also by the way in which the data were collected.

The sampling plan and methodology are outlined in the following sub-sections.

## 6.2 Soil Sampling Plan and Methodology

The soil sampling plan and methodology adopted for this investigation is outlined in the table below:

Table 6-1: Soil Sampling Plan and Methodology

Aspect	Input
Sampling Density	Samples were collected from four locations (BH4 to BH7 inclusive) as shown on the attached Figure 2. Based on the development area (4,150m <sup>2</sup> ), this number of locations corresponded to a sampling density of approximately one sample per 1,040m <sup>2</sup> . The sampling plan was not designed to meet the minimum sampling density for hotspot identification, as outlined in the NSW EPA Contaminated Sites Sampling Design Guidelines (1995) <sup>10</sup> .
Sampling Plan	The sampling locations were placed on a judgemental sampling plan and were broadly positioned for site coverage, taking into consideration areas that were not easily accessible. This sampling plan was considered suitable to make a preliminary assessment of potential risks associated with the AEC and CoPC identified in the CSM, and assess whether further investigation is warranted.
Set-out and Sampling Equipment	Sampling locations were set out using tape measurements from existing site features. In-situ sampling locations were checked for underground services by an external contractor prior to sampling.

<sup>10</sup> NSW EPA, (1995), *Contaminated Sites Sampling Design Guidelines*. (referred to as EPA Sampling Design Guidelines 1995)

Aspect	Input
	<p>Samples were collected using a push tube drill rig and 150mm diameter auger. Soil samples were obtained from disposable polyethylene push tube samplers and directly from the auger. Each borehole was initially advanced using push tubes for standard contamination sampling, then subsequently using a 150mm diameter auger to facilitate the asbestos quantification sampling.</p>
<p>Sample Collection and Field QA/QC</p>	<p>Soil samples were obtained on 22 January 2022 in accordance with our standard field procedures. Soil samples were collected from the fill and natural profiles based on field observations. The sample depths are shown on the logs attached in the appendices.</p> <p>Samples were placed in glass jars with plastic caps and Teflon seals with minimal headspace. Samples for asbestos analysis were placed in zip-lock plastic bags. During sampling, soil at selected depths was split into primary and duplicate samples for field QA/QC analysis. The field splitting procedure included alternately filling the sampling containers to obtain a representative split sample.</p>
<p>Field Screening</p>	<p>A portable Photo-ionisation Detector (PID) fitted with a 10.6mV lamp was used to screen the samples for the presence of volatile organic compounds (VOCs). PID screening for VOCs was undertaken on soil samples using the soil sample headspace method. VOC data was obtained from partly filled zip-lock plastic bags following equilibration of the headspace gases. PID calibration records are maintained on file by JKE.</p> <p>The field screening for asbestos quantification included the following:</p> <ul style="list-style-type: none"> <li>• A representative bulk sample was collected from fill at 1m intervals, or from each distinct fill profile. The quantity of material for each sample varied based on whatever return could be achieved using the auger. The bulk sample intervals are shown on the attached borehole logs;</li> <li>• Each sample was weighed using an electronic scale;</li> <li>• Each bulk sample was passed through a sieve with a 7.1mm aperture and inspected for the presence of fibre cement. Any soil clumps/nodules were disaggregated;</li> <li>• The condition of fibre cement or any other suspected asbestos materials was noted on the field records; and</li> <li>• If observed, any fragments of fibre cement in the bulk sample were collected, placed in a zip-lock bag and assigned a unique identifier. Calculations for asbestos content were undertaken based on the requirements outlined in Schedule B1 of NEPM (2013), as summarised in Section 7.1.</li> </ul> <p>A calibration/check of the accuracy of the scale used for weighing the fibre cement fragments was undertaken using a set of calibration weights. Calibration/check records are maintained on file by JKE. The scale used to weigh the 10L samples was not calibrated, however this is not considered significant as this method of providing a weight for the bulk sample is considered to be considerably more accurate than applying a nominal soil density conversion.</p>
<p>Decontamination and Sample Preservation</p>	<p>Sampling personnel used disposable nitrile gloves during sampling activities.</p> <p>Soil samples were preserved by immediate storage in an insulated sample container with ice. On completion of the fieldwork, the samples were stored temporarily in fridges in the JKE warehouse before being delivered in the insulated sample container to a NATA registered laboratory for analysis under standard chain of custody (COC) procedures.</p>

## 6.3 Analytical Schedule

### 6.3.1 Laboratory Analysis

Samples were analysed by an appropriate, NATA Accredited laboratory using the analytical methods detailed in Schedule B(3) of NEPM 2013. Reference should be made to the laboratory reports attached in the appendices for further details.

Table 6-2: Laboratory Details

Samples	Laboratory	Report Reference
All primary samples and field QA/QC samples including (intra-laboratory duplicates, trip blank and trip spike samples)	Envirolab Services Pty Ltd NSW, NATA Accreditation Number – 2901 (ISO/IEC 17025 compliance)	287219, 287219-A
Inter-laboratory duplicates	Envirolab Services Pty Ltd VIC, NATA Accreditation Number – 2901 (ISO/IEC 17025 compliance)	29641

## 7 SITE ASSESSMENT CRITERIA (SAC)

The SAC were derived from the NEPM 2013 and other guidelines as discussed in the following sub-sections. The guideline values for individual contaminants are presented in the attached report tables and further explanation of the various criteria adopted is provided in the appendices.

### 7.1 Soil

Soil data were compared to relevant Tier 1 screening criteria in accordance with NEPM (2013) as outlined below.

#### 7.1.1 Human Health

- Health Investigation Levels (HILs) for a 'commercial/industrial' exposure scenario (HIL-D);
- Health Screening Levels (HSLs) for a 'commercial/industrial' exposure scenario (HSL-D). HSLs were calculated based on conservative assumptions including a 'sand' type and a depth interval of 0m to 1m;
- HSLs for direct contact presented in the CRC Care Technical Report No. 10 – Health screening levels for hydrocarbons in soil and groundwater Part 1: Technical development document (2011)<sup>11</sup>; and
- Asbestos was assessed against the HSL-D criteria. Given the preliminary nature of the investigation, asbestos was also considered in terms of presence/detected and absent/not detected. A summary of the asbestos criteria is provided in the table below:

Table 7-1: Details for Asbestos SAC

Guideline	Applicability
Asbestos in Soil	<p>The HSL-D criteria were adopted for the assessment of asbestos in soil. The SAC adopted for asbestos were derived from the NEPM 2013 and are based on the Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2021)<sup>12</sup>. The SAC include the following:</p> <ul style="list-style-type: none"> <li>• No visible asbestos at the surface/in the top 10cm of soil;</li> <li>• &lt;0.05% w/w bonded asbestos containing material (ACM) in soil; and</li> <li>• &lt;0.001% w/w asbestos fines/fibrous asbestos (AF/FA) in soil.</li> </ul> <p>Concentrations for bonded ACM concentrations in soil are based on the following equation which is presented in Schedule B1 of NEPM (2013):</p> $\% \text{ w/w asbestos in soil} = \frac{\% \text{ asbestos content} \times \text{bonded ACM (kg)}}{\text{Soil volume (L)} \times \text{soil density (kg/L)}}$ <p>However, we are of the opinion that the actual soil volume in a 10L bucket varies considerably due to the presence of voids, particularly when assessing cohesive soils. Therefore, each bucket sample was weighed using electronic scales and the above equation was adjusted as follows (we note that the units have also converted to grams):</p>

<sup>11</sup> Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC Care), (2011). Technical Report No. 10 - Health screening levels for hydrocarbons in soil and groundwater Part 1: Technical development document

<sup>12</sup> Western Australian (WA) Department of Health (DoH), (2021). Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia. (referred to as WA DoH 2021)



Guideline	Applicability
	$\% \text{ w/w asbestos in soil} = \frac{\% \text{ asbestos content} \times \text{bonded ACM (g)}}{\text{Soil weight (g)}}$

### 7.1.2 Environment (Ecological – terrestrial ecosystems)

- Ecological Investigation Levels (EILs) and Ecological Screening Levels (ESLs) for a 'commercial/industrial' exposure scenario. These have only been applied to the top 2m of soil as outlined in NEPM (2013). The criterion for benzo(a)pyrene has been increased from the value presented in NEPM (2013) based on the Canadian Soil Quality Guidelines<sup>13</sup>;
- ESLs were adopted based on the soil type; and
- EILs for selected metals were calculated based on the most conservative added contaminant limit (ACL) values presented in Schedule B(1) of NEPM (2013) and published ambient background concentration (ABC) values presented in the document titled Trace Element Concentrations in Soils from Rural and Urban Areas of Australia (1995)<sup>14</sup>. This method is considered to be adequate for the Tier 1 screening.

### 7.1.3 Management Limits for Petroleum Hydrocarbons

Management limits for petroleum hydrocarbons (as presented in Schedule B1 of NEPM 2013) were considered.

### 7.1.4 Waste Classification

Data for the waste classification assessment were assessed in accordance with the Waste Classification Guidelines, Part 1: Classifying Waste (2014)<sup>15</sup> as outlined in the following table:

Table 7-2: Waste Categories

Category	Description
General Solid Waste (non-putrescible)	<ul style="list-style-type: none"> <li>• If Specific Contaminant Concentration (SCC) ≤ Contaminant Threshold (CT1) then Toxicity Characteristics Leaching Procedure (TCLP) not needed to classify the soil as general solid waste; and</li> <li>• If TCLP ≤ TCLP1 and SCC ≤ SCC1 then treat as general solid waste.</li> </ul>
Restricted Solid Waste (non-putrescible)	<ul style="list-style-type: none"> <li>• If SCC ≤ CT2 then TCLP not needed to classify the soil as restricted solid waste; and</li> <li>• If TCLP ≤ TCLP2 and SCC ≤ SCC2 then treat as restricted solid waste.</li> </ul>
Hazardous Waste	<ul style="list-style-type: none"> <li>• If SCC &gt; CT2 then TCLP not needed to classify the soil as hazardous waste; and</li> <li>• If TCLP &gt; TCLP2 and/or SCC &gt; SCC2 then treat as hazardous waste.</li> </ul>
Virgin Excavated Natural Material (VENM)	<p>Natural material (such as clay, gravel, sand, soil or rock fines) that meet the following:</p> <ul style="list-style-type: none"> <li>• That has been excavated or quarried from areas that are not contaminated with manufactured chemicals, or with process residues, as a result of industrial, commercial mining or agricultural activities;</li> </ul>

<sup>13</sup> Canadian Council of Ministers of the Environment, (1999). *Canadian soil quality guidelines for the protection of environmental and human health: Benzo(a)Pyrene (1997)* (referred to as the Canadian Soil Quality Guidelines)

<sup>14</sup> Olszowy, H., Torr, P., and Imray, P., (1995), *Trace Element Concentrations in Soils from Rural and Urban Areas of Australia. Contaminated Sites Monograph Series No. 4*. Department of Human Services and Health, Environment Protection Agency, and South Australian Health Commission

<sup>15</sup> NSW EPA, (2014). *Waste Classification Guidelines, Part 1: Classifying Waste*. (referred to as Waste Classification Guidelines 2014)



Category	Description
	<ul style="list-style-type: none"><li>• That does not contain sulfidic ores or other waste; and</li><li>• Includes excavated natural material that meets such criteria for virgin excavated natural material as may be approved from time to time by a notice published in the NSW Government Gazette.</li></ul>

## 8 RESULTS

### 8.1 Summary of Data (QA/QC) Evaluation

The data evaluation is presented in the appendices. In summary, JKE is of the opinion that the data are adequately precise, accurate, representative, comparable and complete to serve as a basis for interpretation to achieve the investigation objectives.

### 8.2 Subsurface Conditions

A summary of the subsurface conditions encountered during the investigation is presented in the following table. For completeness, the summary includes details from all boreholes drilled for the concurrent JKG geotechnical investigation. Reference should be made to the borehole logs attached in the appendices for further details.

Table 8-1: Summary of Subsurface Conditions

Profile	Description
Pavement	Concrete pavement was encountered at the surface in all boreholes and ranged in thickness from 130mm to 240mm.
Fill	<p>Fill was encountered beneath the pavement in all boreholes and extended to depths of approximately 0.5m to 1mBGL.</p> <p>The fill typically comprised silty and gravelly sand with inclusions of igneous and sandstone gravel, ash, slag, and building rubble (brick, glass fragments). FCF was also identified in BH7.</p> <p>A layer of silty clay fill with inclusions of ash was encountered beneath the pavement in BH6 and extended to an approximate depth of 0.35mBGL.</p> <p>No obvious stained or odorous soils were encountered during the investigation.</p>
Natural Soil	Alluvial sand and silty sand were encountered beneath the fill in all boreholes and extended to the maximum terminal borehole depth of 3mBGL.
Bedrock	Bedrock was not encountered in the environmental boreholes.
Groundwater	Groundwater seepage was not encountered in the boreholes during drilling, to a maximum borehole depth of 3m. All boreholes remained dry on completion of drilling and a short time after.

### 8.3 Field Screening

A summary of the field screening results is presented in the following table:

Table 8-2: Summary of Field Screening

Aspect	Details
PID Screening of Soil Samples for VOCs	PID soil sample headspace readings are presented in attached report tables and the COC documents attached in the appendices. The results ranged from 0ppm to 2ppm equivalent isobutylene. These results indicate that relatively low concentrations of PID detectable VOCs were present in some samples.

Aspect	Details
Bulk Screening for Asbestos	The bulk field screening results are summarised in the attached report tables. No asbestos was observed in the bulk field screening samples.

## 8.4 Soil Laboratory Results

The soil laboratory results were assessed against the SAC presented in Section 7.1. Individual SAC are shown in the report tables attached in the appendices. A summary of the results is presented below:

### 8.4.1 Human Health and Environmental (Ecological) Assessment

Table 8-3: Summary of Soil Laboratory Results – Human Health and Environmental (Ecological)

Analyte	N	Max. (mg/kg)	N> Human Health SAC	N> Ecological SAC	Comments
Arsenic	8	7	0	0	-
Cadmium	8	23	0	NSL	-
Chromium (total)	8	18	0	0	-
Copper	8	48	0	0	-
Lead	8	420	0	0	-
Mercury	8	<PQL	0	NSL	-
Nickel	8	7	0	0	-
Zinc	8	11,000	0	1	The zinc concentration exceeded the ecological SAC in one fill soil sample collected from BH7 (0.2-0.6m, and its field duplicate).
Total PAHs	8	5.4	0	NSL	-
Benzo(a)pyrene	8	0.69	NSL	0	-
Carcinogenic PAHs (as BaP TEQ)	8	1	0	NSL	-
Naphthalene	8	<PQL	0	NSL	-
DDT+DDE+DDD	4	<PQL	0	NSL	-
DDT	4	<PQL	NSL	0	-
Aldrin and dieldrin	4	<PQL	0	NSL	-

Analyte	N	Max. (mg/kg)	N> Human Health SAC	N> Ecological SAC	Comments
Chlordane	4	<PQL	0	NSL	-
Heptachlor	4	<PQL	0	NSL	-
Chlorpyrifos (OPP)	4	<PQL	0	NSL	-
PCBs	4	<PQL	0	NSL	-
TRH F1	8	<PQL	0	0	-
TRH F2	8	54	0	0	-
TRH F3	8	330	0	0	-
TRH F4	8	<PQL	0	0	-
Benzene	8	<PQL	0	0	-
Toluene	8	<PQL	0	0	-
Ethylbenzene	8	<PQL	0	0	-
Xylenes	8	<PQL	0	0	-
Asbestos (in soil) (%w/w)	4	ACM 0.0383  AF/FA 0.0024	2	NA	Asbestos concentrations (in the form of AF/FA) exceeded the HSL criteria in two fill soil samples collected from BH6 (0.13-0.35m) and BH7 (0.2-0.6m). The detection of ACM in the BH6 sample was below the SAC.
Asbestos in fibre cement	1	Asbestos detected	1	NSL	A FCF was collected from the push-tube sampler in BH7 (0.2-0.6m) (i.e. was not in the bulk field screening sample). The FCF could not be crushed by hand pressure and was assessed by field staff to be 'bonded'. The FCF was confirmed by laboratory analysis to contain chrysotile, amosite and crocidolite asbestos fibres  Due to the preliminary nature of the assessment, the presence of asbestos is considered an exceedance of the human health SAC.

**Notes:**

N: Total number (primary samples)

NSL: No set limit

NL: Not limiting

## 8.4.2 Waste Classification Assessment

The laboratory results were assessed against the criteria presented in Section 7.1.4. The results are presented in the report tables attached in the appendices. A summary of the results is presented in the following table:

Table 8-4: Summary of Soil Laboratory Results Compared to CT and SCC Criteria

Analyte	N	N > CT Criteria	N > SCC Criteria	Comments
Arsenic	8	0	0	-
Cadmium	8	1	0	The lead cadmium concentration in one fill sample collected from BH7 (0.2-0.6m) exceeded the CT1 criterion of 20mg/kg. The maximum lead concentration was 23mg/kg.
Chromium	8	0	0	-
Copper	8	NSL	NSL	-
Lead	8	1	0	The lead concentration in one fill sample collected from BH7 (0.2-0.6m) exceeded the CT1 and CT2 criteria. The maximum lead concentration was 420mg/kg.
Mercury	8	0	0	-
Nickel	8	0	0	-
Zinc	8	NSL	NSL	-
TRH (C <sub>6</sub> -C <sub>9</sub> )	8	0	0	-
TRH (C <sub>10</sub> -C <sub>36</sub> )	8	0	0	-
BTEX	8	0	0	-
Total PAHs	8	0	0	-
Benzo(a)pyrene	8	0	0	-
OCPs & OPPs	4	0	0	-
PCBs	4	0	0	-
Asbestos	8	-	-	Asbestos was detected in two fill samples collected from BH6 (0.13-0.35m), BH7 (0.4-0.6m). A FCF was also identified in drilling spoil from BH7 (0.4-0.6m). Due to the presence of asbestos in the soils, the fill is classified as Special Waste.

N: Total number (primary samples)

NSL: No set limit

Table 8-5: Summary of Soil Laboratory Results Compared to TCLP Criteria

Analyte	N	N > TCLP Criteria	Comments
Cadmium	1	0	The fill sample with the cadmium concentration above the CT1 criterion was analysed for TCLP cadmium. The recorded TCLP cadmium concentration of 0.09mg/L was below the TCLP1 threshold of 1mg/L.
Lead	1	0	The fill sample with the lead concentration above the CT1 and CT2 criteria was analysed for TCLP lead. The recorded TCLP lead concentration of 0.2mg/L was below the TCLP1 threshold of 5mg/L.

N: Total number (primary samples)

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## **9 WASTE CLASSIFICATION ASSESSMENT**

### **9.1 Preliminary Waste Classification of Fill**

Based on the results of the waste classification assessment, and at the time of reporting, the fill material is assigned a preliminary classification as **General Solid Waste (non-putrescible) containing Special Waste (asbestos)**. Further assessment is required to confirm this classification prior to off-site disposal of the waste. The anticipated waste quantities should also be confirmed at that time and documented in the report.

### **9.2 Preliminary Classification of Natural Soil and Bedrock**

Based on the scope of work undertaken for this assessment, and at the time of reporting, JKE is of the opinion that the natural soil and bedrock at the site is likely to meet the definition of **VENM** for off-site disposal or re-use purposes. Further assessment of the natural soil and bedrock is required to confirm this classification prior to off-site disposal of the waste. The anticipated waste quantities should also be confirmed at that time and documented in the report.



## **10 DISCUSSION**

### **10.1 Contamination Sources/AEC and Potential for Site Contamination**

Based on the scope of work undertaken for this investigation, JKE identified the following potential contamination sources/AEC:

- Fill material historically imported to the site;
- Historical agricultural use of the site;
- Use of pesticides around the site;
- Hazardous building materials in current and former structures;
- Industrial use of the site, including: paint, rubber and plastic production; and metal and iron works; and
- Off-site industrial uses, including: paint, oil, lubricant and solvent production; boat building/repairs; foundries; commercial printing; USTs; and insecticide manufacture.

Considering the above, and based on a qualitative assessment of various lines of evidence as discussed throughout this report, JKE is of the opinion that there is a potential for site contamination. The preliminary soil data collected for the investigation is discussed further in the following subsection, as part of the Tier 1 risk assessment.

### **10.2 Tier 1 Risk Assessment and Review of CSM**

For a contaminant to represent a risk to a receptor, the following three conditions must be present:

1. Source – The presence of a contaminant;
2. Pathway – A mechanism or action by which a receptor can become exposed to the contaminant; and
3. Receptor – The human or ecological entity which may be adversely impacted following exposure to contamination.

If one of the above components is missing, the potential for adverse risks is relatively low.

#### **10.2.1 Asbestos**

Asbestos (in the form of AF/FA) was detected above the human health SAC in two fill soil samples collected from BH6 and BH7. ACM was also detected in fill soils in BH7. BH6 and BH7 were located within the central and eastern portions of the site respectively and the soils were sealed with concrete pavement.

The source of the asbestos was considered likely associated with former demolition activities and/or impacted fill soils imported to the site. As the impacted fill is currently sealed by concrete pavement, a complete SPR linkage for current receptors does not exist. On this basis, the risk is assessed to be low in the current site configuration where the concrete slab remains intact and the fill is not disturbed.

Once the pavement is removed (i.e. during demolition/redevelopment), the asbestos impacted fill will be exposed and a potentially complete SPR linkage may exist. On this basis, the AF/FA concentrations are considered to pose a potential risk to human health and asbestos therefore requires remediation and management. Recommendations are provided in Section 11 of this report.

### 10.2.2 Heavy metals

A concentration of zinc above the ecological SAC was detected in one fill soil sample collected from BH7. BH7 was located within the east of the site and the soils at this location were sealed with pavement. The source of the zinc was considered likely associated with impacted fill placed on-site. The elevated concentration was not recorded in the underlying natural soil sample, indicating the zinc impacts were confined to the fill soils.

As this area was sealed with concrete pavement, and will be within the proposed building footprint, JKE is of the opinion that a complete SPR linkage does not exist currently and will not exist under the proposed development scenario. On this basis, the zinc concentration in fill soils is not considered to pose a risk to ecological receptors.

### 10.2.3 Hydrocarbons

All hydrocarbon results were below the SAC.

### 10.2.4 Pesticides and PCBs

All OCP, OPP and PCB results were below the SAC. All OCP, OPP and PCB results were below the laboratory PQL.

## 10.3 Decision Statements

The decision statements are addressed below:

*Did the site inspection, or does the historical information identify potential contamination sources/AEC at the site?*

Yes, as discussed in Section 5.1.

*Are any results above the SAC?*

Yes, as discussed in Section 8.

*Do potential risks associated with contamination exist, and if so, what are they?*

Yes, as discussed in Section 10. Risks associated with some of the CoPC and all of the potentially affected media (i.e. groundwater and soil vapour) have not been assessed under the scope of the PSI.

*Is remediation required?*

Remediation and management of asbestos in soil will be required. Further investigation is required to determine the extent of remediation/management necessary for asbestos and to characterise the contamination risks from all CoPC in all potentially affected media.

*Is the site characterisation sufficient to provide adequate confidence in the above decisions?*

Further site characterisation is required to better assess the risks posed by the potential sources of contamination and the CoPC.

*Is the site suitable for the proposed development, or can the site be made suitable subject to further characterisation and/or remediation?*

We are of the opinion that the site can be made suitable for the proposed development subject to further characterisation and remediation and/or management.

## 10.4 Data Gaps

An assessment of data gaps is provided in the following table:

Table 10-1: Data Gap Assessment

Data Gap	Assessment
Soil sampling density below minimum guideline density	Sampling was limited to approximately 30% of the minimum sampling density recommended in the EPA Sampling Design Guidelines 1995 and was not undertaken on a systematic sampling plan due to access constraints. The investigation identified fill containing ash, slag and demolition waste. Recommendations for additional soil sampling are included in the report to address this data gap.
Building footprints not assessed.	Sampling was confined to the accessible driveway area of the site. The data and site history indicate there is potential for widespread and/or point-source contamination to be present. Recommendations for additional investigation within the building footprints are included in the report to address this data gap.
Assessment of all CoPC not undertaken.	The analytical schedule was pre-determined prior to undertaking the sampling and analysis program. Additional CoPC were identified throughout the course of the PSI. Future investigations should include all identified CoPC relevant to the medium being sampled. Recommendations are included in the report to address this data gap.
Internal inspection of buildings not undertaken.	The internal areas of the buildings were not inspected. An inspection of the storage spaces and buildings may reveal further information relating to possible AEC/CoPC within the site. Recommendations for an internal inspection of the buildings are included in the report to address the data gap.
Groundwater and soil vapour not assessed.	Based on the site history and the results reported, there is potential for the groundwater and soil vapour to be contaminated. Recommendations for groundwater and soil vapour sampling are included in the report to address this data gap.

## 11 CONCLUSIONS AND RECOMMENDATIONS

The investigation included a review of historical information and sampling from four boreholes. The site has historically been used for agricultural and industrial purposes.

Potential contamination sources identified at the site and the immediate surrounds included:

- Fill material historically imported to the site;
- Historical agricultural use of the site;
- Use of pesticides around the site;
- Hazardous building materials in current and former structures;
- Industrial use of the site, including: paint, rubber and plastic production; and metal and iron works; and
- Off-site industrial uses, including: paint, oil, lubricant and solvent production; boat building/repairs; foundries; commercial printing; USTs; and insecticide manufacture.

Based on the findings of the investigation, JKE is of the opinion that the site can be made suitable for the proposed development described in Section 1.1. The following is recommended:

- Undertake a Detailed Site Investigation (DSI) to fully characterise the risks associated with the AEC/potential sources of contamination and CoPC. The DSI must address the data gaps identified in Section 10.4; and
- Prepare a Remediation Action Plan (RAP) to address the contamination issues identified at the site.

Due to the presence of asbestos, an appropriate asbestos management plan (AMP) must be prepared and implemented for the current site operations and for the demolition/construction phase of the proposed development to meet the requirements under Clause 429 of the Work Health and Safety Regulation 2017 (NSW).

At this stage, JKE consider that there is no requirement to notify the NSW EPA under the NSW EPA Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997 (2015)<sup>16</sup>. The duty to report contamination should be reassessed after the completion of the DSI.

JKE consider that the report objectives outlined in Section 1.2 have been addressed.

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<sup>16</sup> NSW EPA, (2015). *Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997* (referred to as Duty to Report Contamination)

## 12 LIMITATIONS

The report limitations are outlined below:

- JKE accepts no responsibility for any unidentified contamination issues at the site. Any unexpected problems/subsurface features that may be encountered during development works should be inspected by an environmental consultant as soon as possible;
- Previous use of this site may have involved excavation for the foundations of buildings, services, and similar facilities. In addition, unrecorded excavation and burial of material may have occurred on the site. Backfilling of excavations could have been undertaken with potentially contaminated material that may be discovered in discrete, isolated locations across the site during construction work;
- This report has been prepared based on site conditions which existed at the time of the investigation; scope of work and limitation outlined in the JKE proposal; and terms of contract between JKE and the client (as applicable);
- The conclusions presented in this report are based on investigation of conditions at specific locations, chosen to be as representative as possible under the given circumstances, visual observations of the site and immediate surrounds and documents reviewed as described in the report;
- Subsurface soil and rock conditions encountered between investigation locations may be found to be different from those expected. Groundwater conditions may also vary, especially after climatic changes;
- The investigation and preparation of this report have been undertaken in accordance with accepted practice for environmental consultants, with reference to applicable environmental regulatory authority and industry standards, guidelines and the assessment criteria outlined in the report;
- Where information has been provided by third parties, JKE has not undertaken any verification process, except where specifically stated in the report;
- JKE has not undertaken any assessment of off-site areas that may be potential contamination sources or may have been impacted by site contamination, except where specifically stated in the report;
- JKE accept no responsibility for potentially asbestos containing materials that may exist at the site. These materials may be associated with demolition of pre-1990 constructed buildings or fill material at the site;
- JKE have not and will not make any determination regarding finances associated with the site;
- Additional investigation work may be required in the event of changes to the proposed development or landuse. JKE should be contacted immediately in such circumstances;
- Material considered to be suitable from a geotechnical point of view may be unsatisfactory from a soil contamination viewpoint, and vice versa; and
- This report has been prepared for the particular project described and no responsibility is accepted for the use of any part of this report in any other context or for any other purpose.

## Important Information About This Report

These notes have been prepared by JKE to assist with the assessment and interpretation of this report.

### **The Report is based on a Unique Set of Project Specific Factors**

This report has been prepared in response to specific project requirements as stated in the JKE proposal document which may have been limited by instructions from the client. This report should be reviewed, and if necessary, revised if any of the following occur:

- The proposed land use is altered;
- The defined subject site is increased or sub-divided;
- The proposed development details including size, configuration, location, orientation of the structures or landscaped areas are modified;
- The proposed development levels are altered, eg addition of basement levels; or
- Ownership of the site changes.

JKE will not accept any responsibility whatsoever for situations where one or more of the above factors have changed since completion of the investigation. If the subject site is sold, ownership of the investigation report should be transferred by JKE to the new site owners who will be informed of the conditions and limitations under which the investigation was undertaken. No person should apply an investigation for any purpose other than that originally intended without first conferring with the consultant.

### **Changes in Subsurface Conditions**

Subsurface conditions are influenced by natural geological and hydrogeological process and human activities. Groundwater conditions are likely to vary over time with changes in climatic conditions and human activities within the catchment (e.g. water extraction for irrigation or industrial uses, subsurface waste water disposal, construction related dewatering). Soil and groundwater contaminant concentrations may also vary over time through contaminant migration, natural attenuation of organic contaminants, ongoing contaminating activities and placement or removal of fill material. The conclusions of an investigation report may have been affected by the above factors if a significant period of time has elapsed prior to commencement of the proposed development.

### **This Report is based on Professional Interpretations of Factual Data**

Site investigations identify actual subsurface conditions at the actual sampling locations at the time of the investigation. Data obtained from the sampling and subsequent laboratory analyses, available site history information and published regional information is interpreted by geologists, engineers or environmental scientists and opinions are drawn about the overall subsurface conditions, the nature and extent of contamination, the likely impact on the proposed development and appropriate remediation measures.

Actual conditions may differ from those inferred, because no professional, no matter how qualified, and no subsurface exploration program, no matter how comprehensive, can reveal what is hidden by earth, rock and time. The actual interface between materials may be far more gradual or abrupt than an investigation indicates. Actual conditions in areas not sampled may differ from predictions. Nothing can be done to prevent the unanticipated, but steps can be taken to help minimise the impact. For this reason, site owners should retain the services of their consultants throughout the development stage of the project, to identify variances, conduct additional tests which may be needed, and to recommend solutions to problems encountered on site.

### **Investigation Limitations**

Although information provided by a site investigation can reduce exposure to the risk of the presence of contamination, no environmental site investigation can eliminate the risk. Even a rigorous professional investigation may not detect all contamination on a site. Contaminants may be present in areas that were not surveyed or sampled, or may migrate to areas which showed no signs of contamination when sampled. Contaminant analysis cannot possibly cover every type of contaminant which may occur; only the most likely contaminants are screened.

---

**Misinterpretation of Site Investigations by Design Professionals**

Costly problems can occur when other design professionals develop plans based on misinterpretation of an investigation report. To minimise problems associated with misinterpretations, the environmental consultant should be retained to work with appropriate professionals to explain relevant findings and to review the adequacy of plans and specifications relevant to contamination issues.

**Logs Should not be Separated from the Investigation Report**

Borehole and test pit logs are prepared by environmental scientists, engineers or geologists based upon interpretation of field conditions and laboratory evaluation of field samples. Logs are normally provided in our reports and these should not be re-drawn for inclusion in site remediation or other design drawings, as subtle but significant drafting errors or omissions may occur in the transfer process. Photographic reproduction can eliminate this problem, however contractors can still misinterpret the logs during bid preparation if separated from the text of the investigation. If this occurs, delays, disputes and unanticipated costs may result. In all cases it is necessary to refer to the rest of the report to obtain a proper understanding of the investigation. Please note that logs with the 'Environmental Log' header are not suitable for geotechnical purposes as they have not been peer reviewed by a Senior Geotechnical Engineer.

To reduce the likelihood of borehole and test pit log misinterpretation, the complete investigation should be available to persons or organisations involved in the project, such as contractors, for their use. Denial of such access and disclaiming responsibility for the accuracy of subsurface information does not insulate an owner from the attendant liability. It is critical that the site owner provides all available site information to persons and organisations such as contractors.

**Read Responsibility Clauses Closely**

Because an environmental site investigation is based extensively on judgement and opinion, it is necessarily less exact than other disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, model clauses have been developed for use in written transmittals. These are definitive clauses designed to indicate consultant responsibility. Their use helps all parties involved recognise individual responsibilities and formulate appropriate action. Some of these definitive clauses are likely to appear in the environmental site investigation, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to any questions.



## **Appendix A: Report Figures**





SOURCE: <http://www.whereis.com/>

AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM

Title: <b>SITE LOCATION PLAN</b>	
Location: 99-105 OLD PITTPATER ROAD, BROOKVALE, NSW	
Project No: E34695PR	Figure No: 1
<b>JKEnvironments</b>	



This plan should be read in conjunction with the Environmental report.



PLOT DATE: 23/02/2022 9:37:46 AM DWG FILE: S:\5 EIS\50 EIS JOBS\34000\SE 34695PR BROOKVALE\CAD\E34695PR.DWG

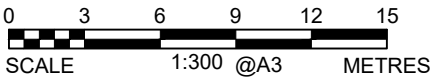
© JK ENVIRONMENTS



LEGEND

- APPROXIMATE SITE BOUNDARY
- BH(Fill Depth)
- APPROXIMATE ALIGNMENT OF SEWER
- BOREHOLE LOCATION, NUMBER AND DEPTH OF FILL (m)

AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM



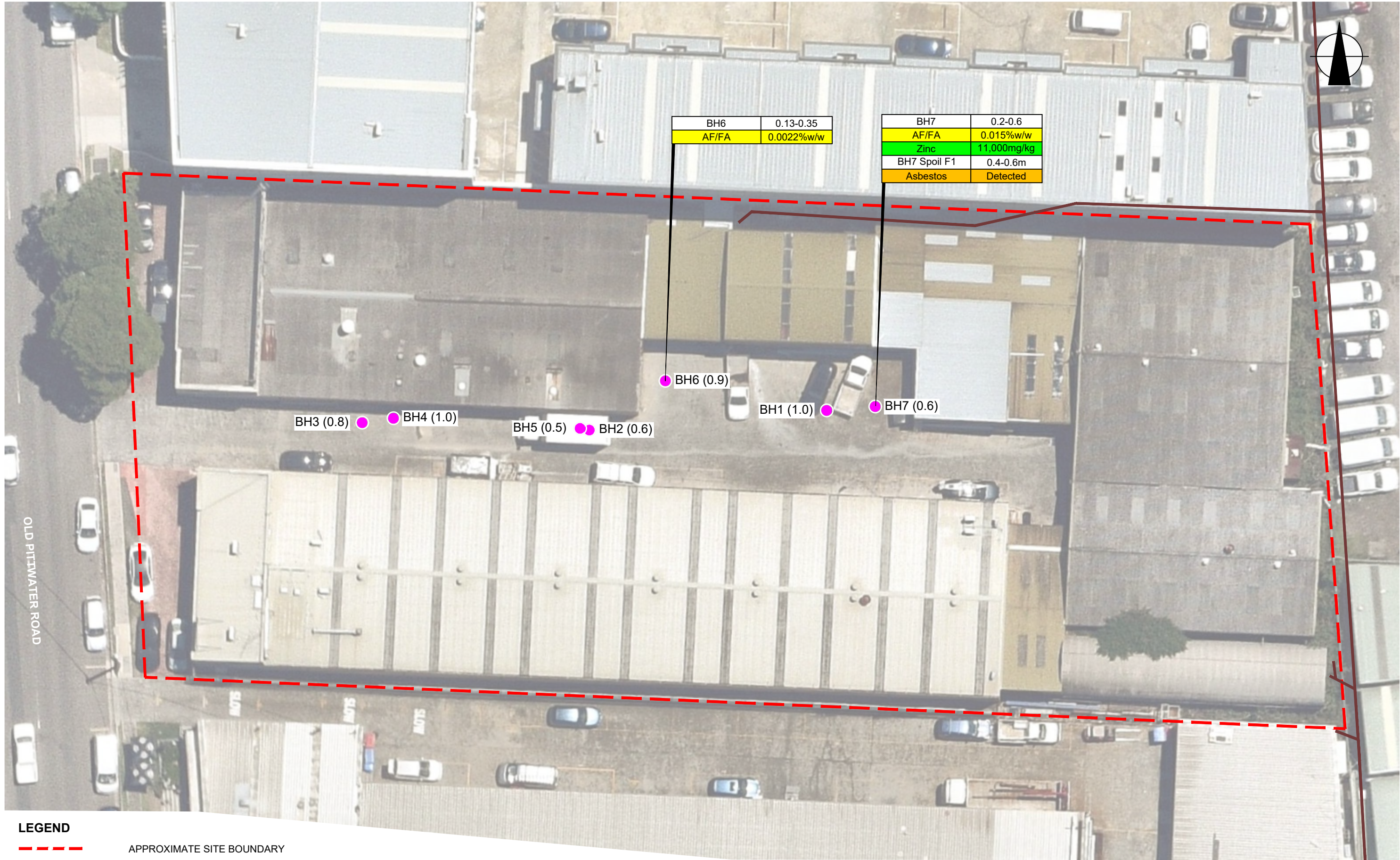
This plan should be read in conjunction with the Environmental report.

Title:		
SAMPLE LOCATION PLAN		
Location: 99-105 OLD PITTWATER ROAD, BROOKVALE, NSW		
Project No: E34695PR		Figure No: 2
JKEnvironments		





PLOT DATE: 1/03/2022 10:20:19 AM DWG FILE: S:\5 EIS\50 EIS JOBS\34695PR BROOKVALE\CAD\E34695PR.DWG



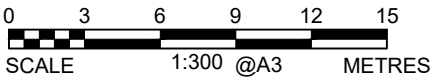
LEGEND

BH(Fill Depth)

APPROXIMATE ALIGNMENT OF SEWER

SAMPLE ID	DEPTH (metres)	SOIL/SURFACE SAMPLE EXCEEDANCE
CHEMICAL	CONCENTRATION	
		SOIL/SURFACE CONTAMINATION ABOVE SAC FOR HUMAN HEALTH RISK
		SOIL/SURFACE CONTAMINATION ABOVE SAC FOR ECOLOGICAL RISK

AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM



This plan should be read in conjunction with the Environmental report.

Title: <b>SAC EXCEEDANCE PLAN</b>	
Location: 99-105 OLD PITTWATER ROAD, BROOKVALE, NSW	
Project No: E34695PR	Figure No: <b>3</b>
<b>JKEnvironments</b>	



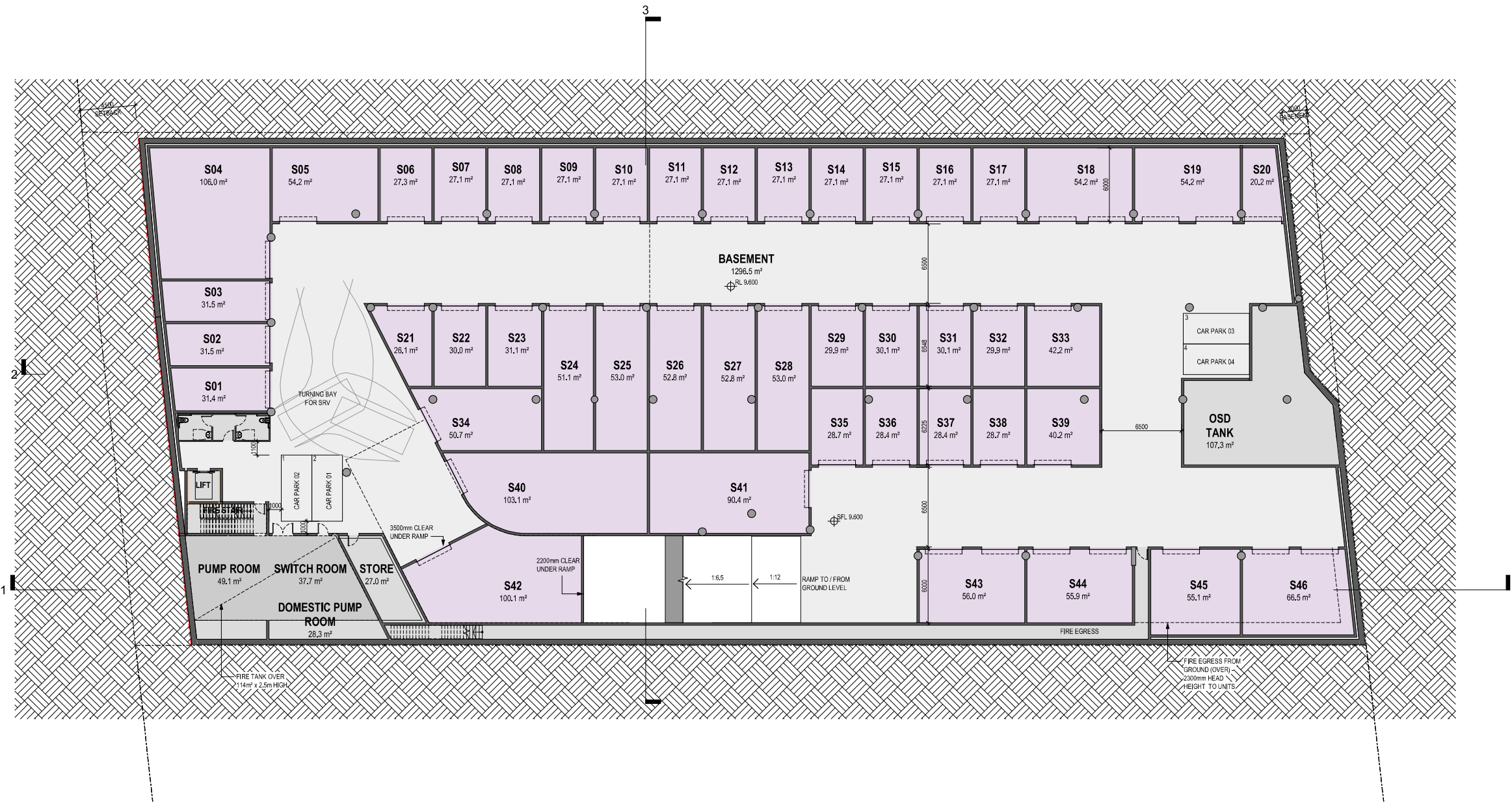




## **Appendix B: Site Information and Site History**



## **Selected Development Plans**



PRELIMINARY

Revisions / P1 08/04/22 For Coordination

AT

Project / 101 - 105 Old Pittwater Road

101 - 105 Old Pittwater Road Brookvale

Drawing / Basement

Project No / 222008

Author / AT

Scale: @ A1 / 1 : 200

Drawing No. / DA01.01

Revision / P1

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## Revisions / P1 08.04.22 For Coordination

AT

Project / **101 - 105 Old Pittwater Road**

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Drawing / **Ground Floor**

Project No / **222008**

Author/AT

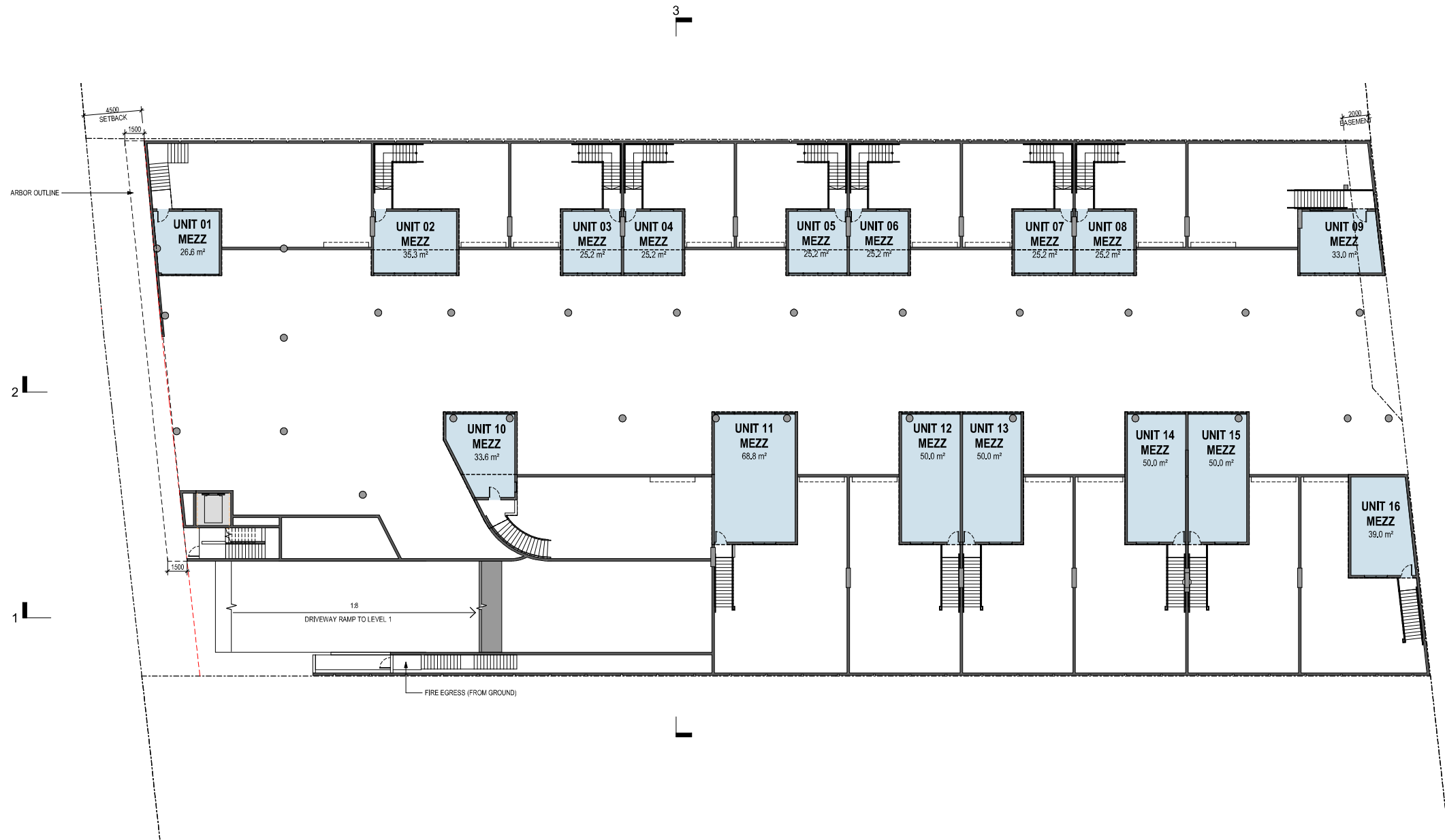
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Drawing No. / **DA01.02**

Revision / **P1**

**rothelowman**

Brisbane, Melbourne, Sydney  
www.rothelowman.com.au



PRELIMINARY

Revisions / P1 08/04/22 For Coordination

AT

Project / 101 - 105 Old Pittwater Road

Drawing / Ground Mezzanine

Project No / 222008

Author / AT

Scale: @ A1 / 1 : 200

Drawing No. / DA01.03

Revision / P1

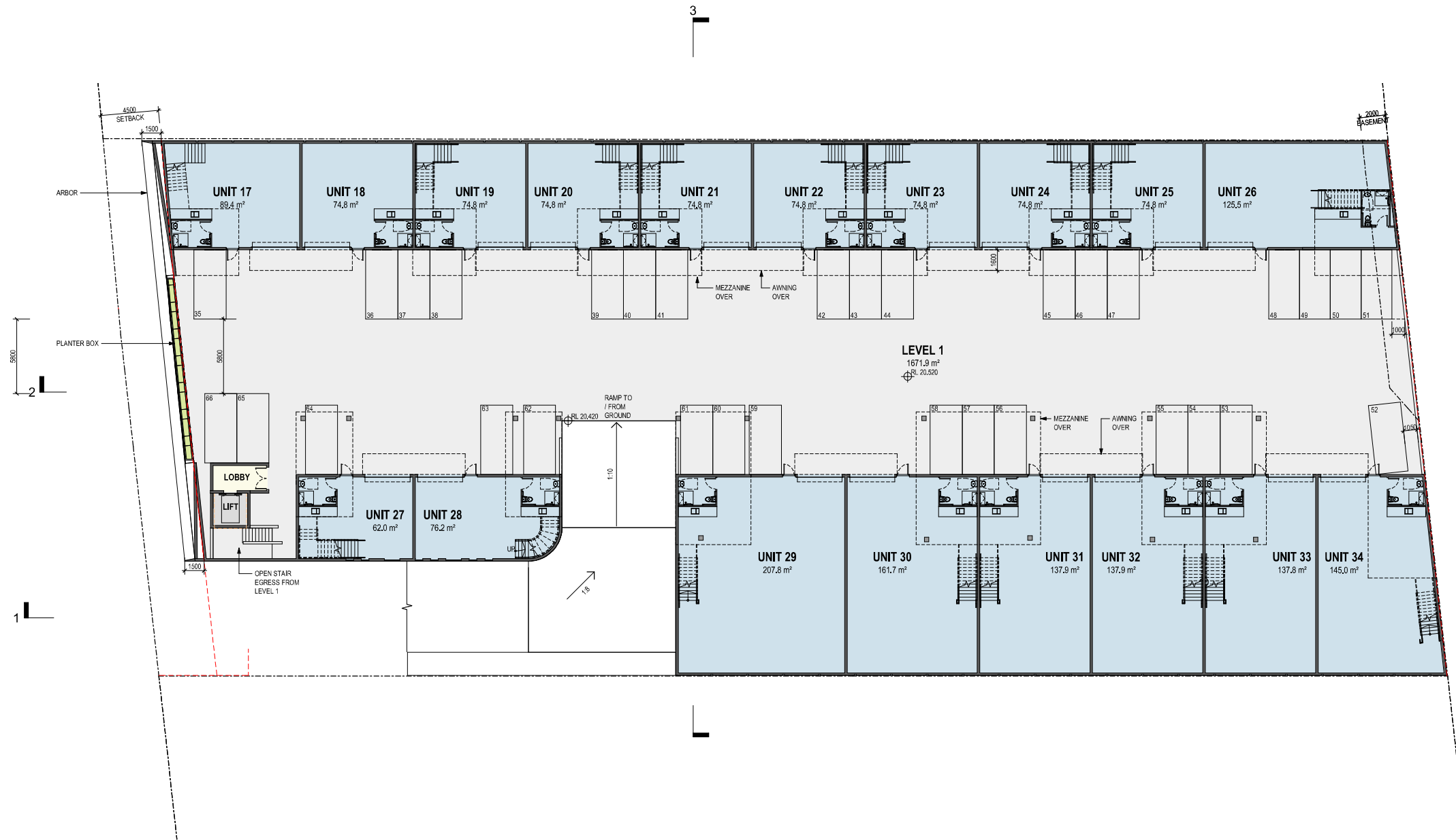
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PRELIMINARY

Revisions / P1 08/04/22 For Coordination

AT

Project / 101 - 105 Old Pittwater Road

101 - 105 Old Pittwater Road Brookvale

Drawing / Level 1

Project No / 222008

Author / KW

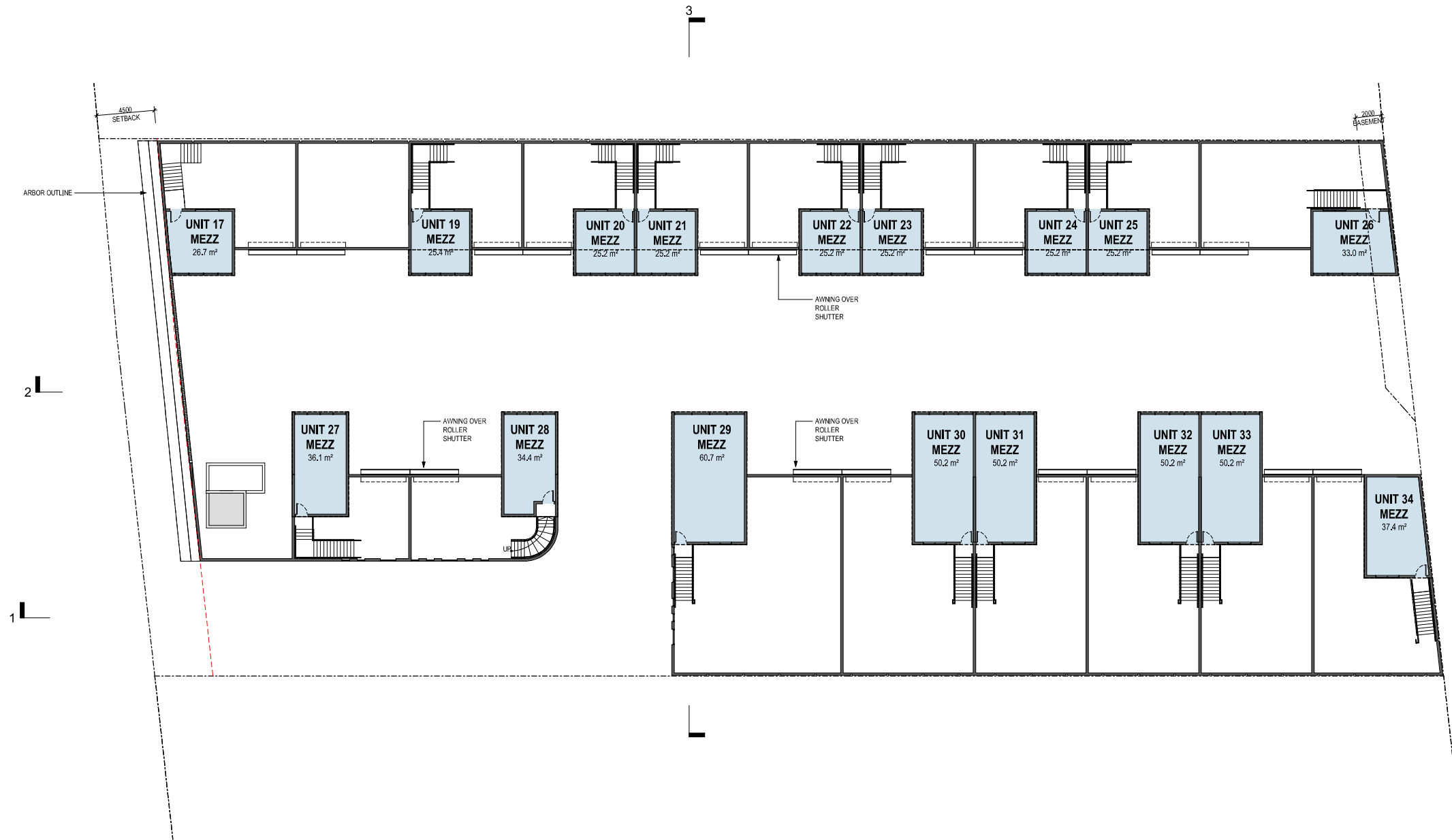
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Drawing No. / DA01.04

Revision / P1

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**PRELIMINARY**

Revisions / P1 08/04/22 For Coordination

AT

Project / **101 - 105 Old Pittwater Road**

101 - 105 Old Pittwater Road  
Brookvale

Drawing / **Level 1 Mezzanine**

Project No / **222008**

Author / **AT**

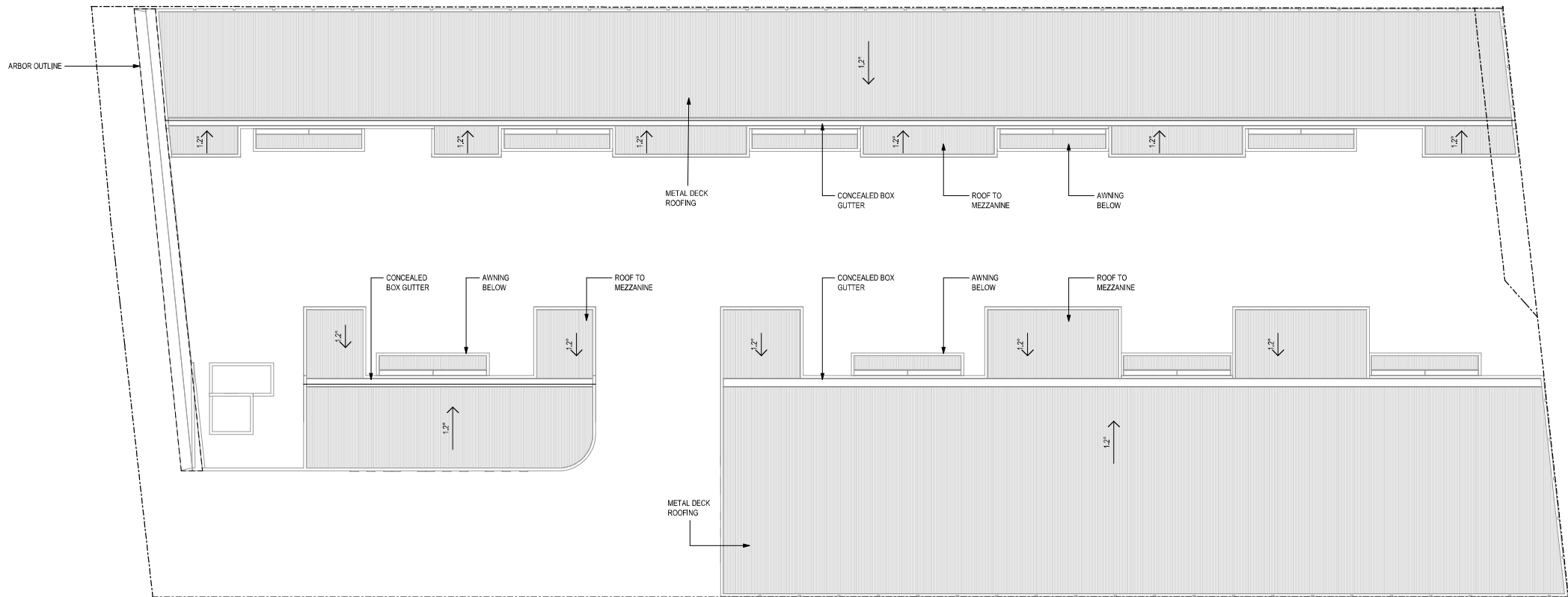
Scale: @ A1 / **1 : 200**

Drawing No. / **DA01.05**

Revision / **P1**

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PRELIMINARY

Revisions / P1 08/04/22 For Coordination

AT

Project / 101 - 105 Old Pittwater Road  
101 - 105 Old Pittwater Road  
Brookvale

Drawing / Roof

Project No / 222008

Author / AT

Scale: @ A1 / 1 : 200

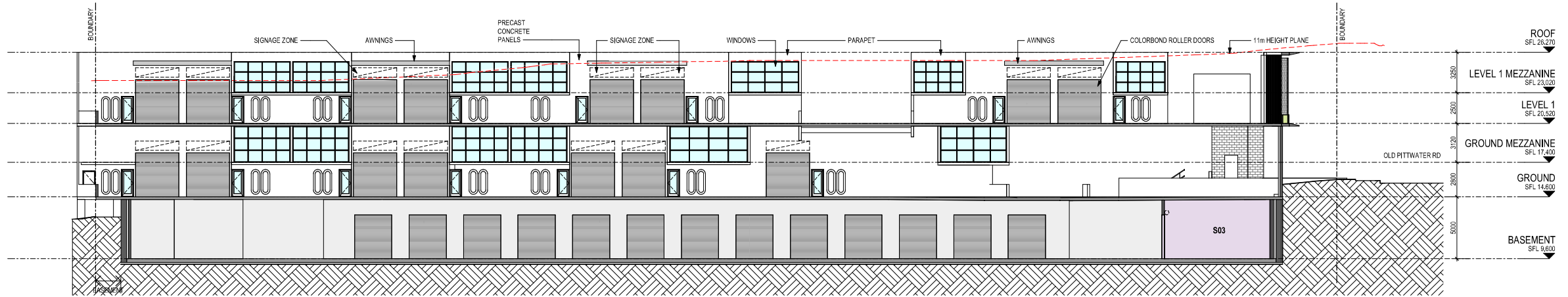
Drawing No. / DA01.06

Revision / P1

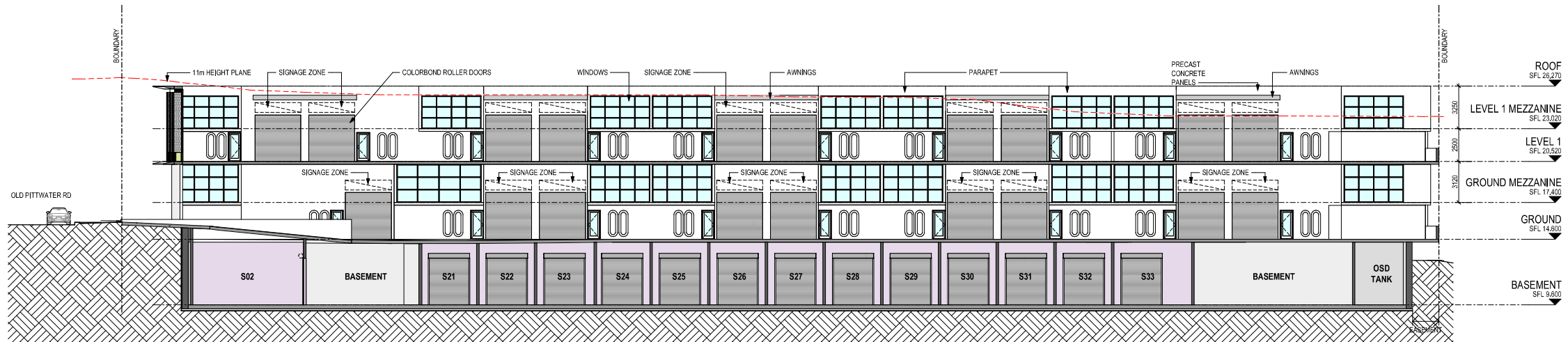


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5 ELEVATION 5  
SCALE 1 : 200



6 ELEVATION 6  
SCALE 1 : 200

## PRELIMINARY

Revisions  
P1 07.04.22 For Review  
P2 08.04.22 For Coordination

AT  
AT

Project  
101 - 105 Old Pittwater Road  
Brookvale

Drawing  
Elevation Sheet 2

Project No  
222008

Author  
AT

Scale: @ A1  
1 : 200

Drawing No.  
DA02.02

Revision  
P2

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LEVEL	STORAGE UNITS	INDUSTRIAL UNITS	PARKING	No. OF INDUSTRIAL UNITS
BASEMENT	1952.8 m²	0.0 m²	1296.5 m²	0
GROUND	0.0 m²	1769.4 m²	1563.7 m²	16
GROUND MEZZANINE	0.0 m²	587.5 m²	0.0 m²	0
LEVEL 1	0.0 m²	1879.7 m²	1671.9 m²	18
LEVEL 1 MEZZANINE	0.0 m²	605.8 m²	0.0 m²	0
	1952.8 m²	4842.4 m²	4532.0 m²	34

Level	CARPARKS
	Total
BASEMENT	4
GROUND	30
LEVEL 1	32
	66

\*For preliminary feasibility purposes, Areas are not to be used for purpose of lease or sale agreements. Layouts may not comply with building regulations or other regulatory requirements. The information contained in this schedule is believed to be correct at the time of printing. Areas are gross building area - measured to external face of external walls, and centre line of parti walls.

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PRELIMINARY

Revisions / P1 08/04/22 For Coordination AT

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Project / 101 - 105 Old Pittwater Road  
101 - 105 Old Pittwater Road  
Brookvale  
Drawing / Development Summary  
Project No / 222008  
Author / AT  
Scale: @ A1 /  
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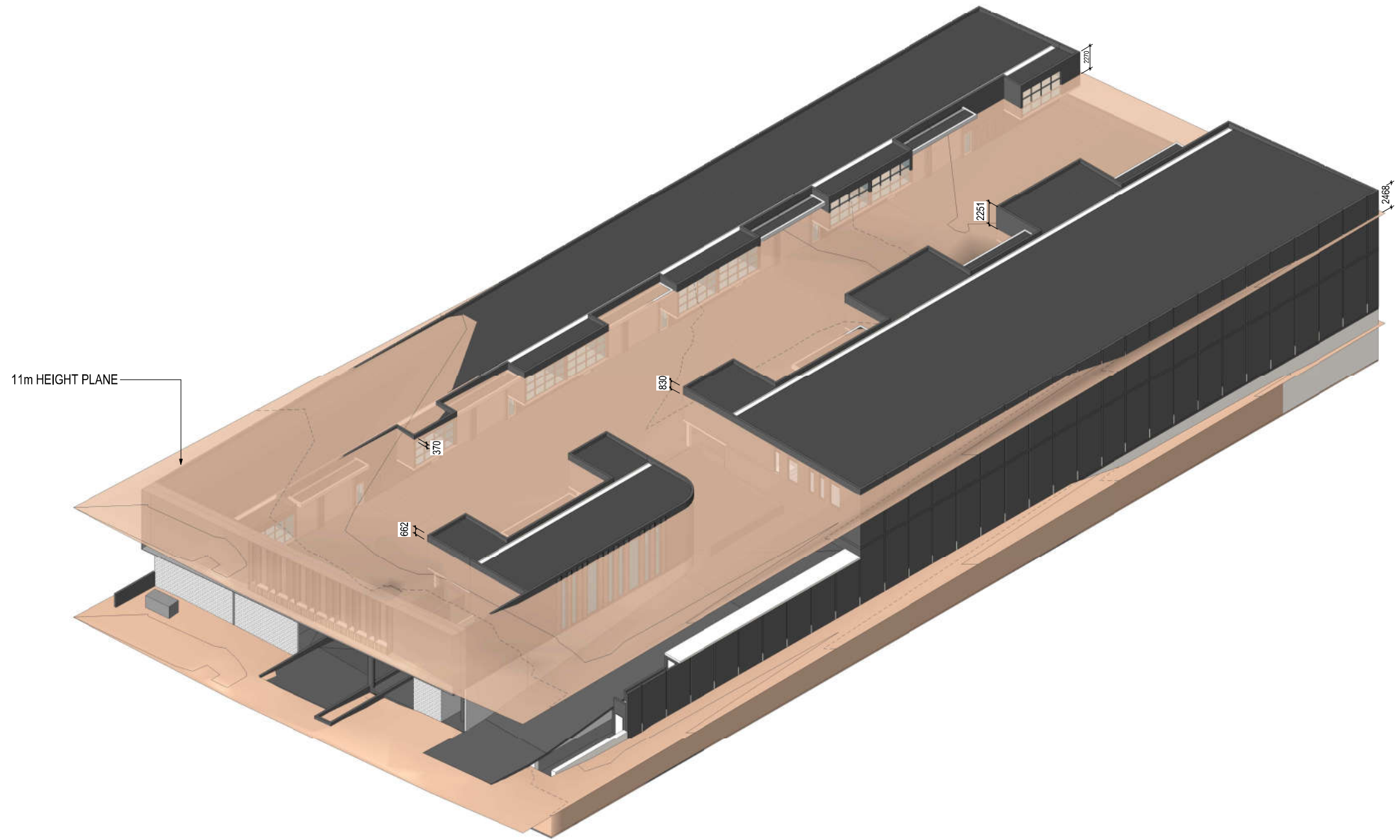
Drawing No. / DA05.01

Revision / P1



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**PRELIMINARY**

Revisions			
P1	05/03/22	For Information	AT
P2	04/04/22	For Coordination	AT
P3	06/04/22	For Information	AT
P4	08/04/22	For Coordination	AT

AT  
AT  
AT

Project / **101 - 105 Old Pittwater Road**  
101 - 105 Old Pittwater Road  
Brookvale

Drawing / **Height Plane Diagram**

Project No / **222008**

Author / **KW**

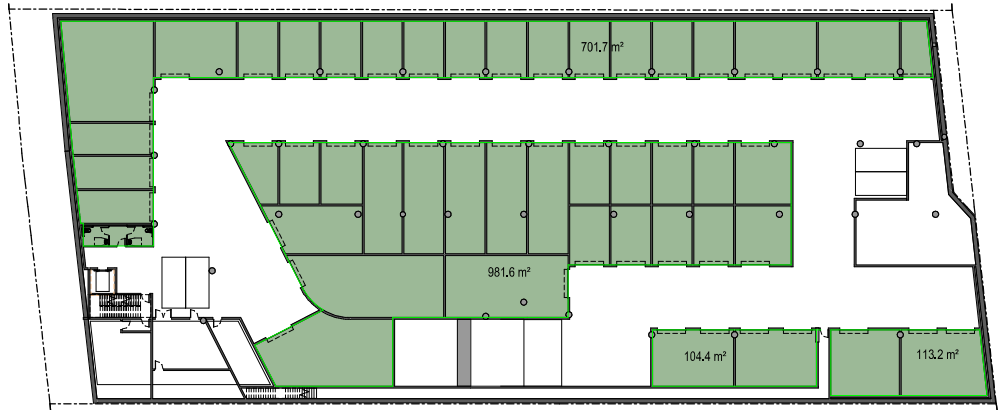
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Drawing No. / **DA06.01**

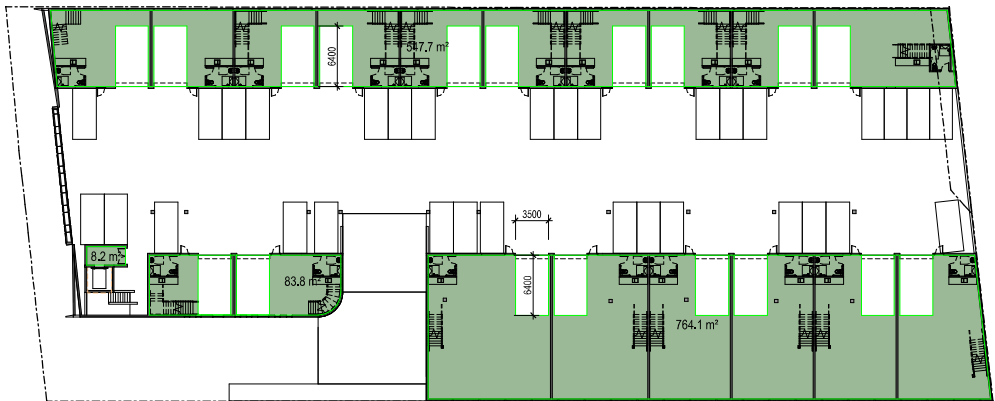
Revision / **P4**

**rothelowman**

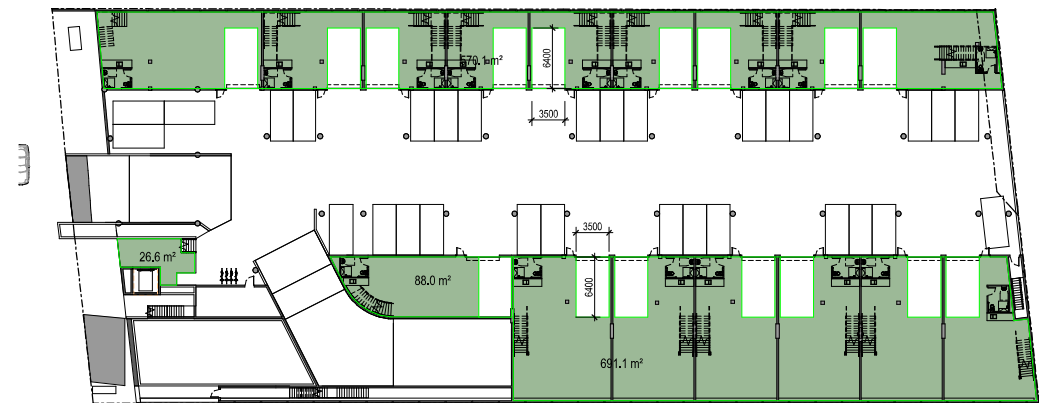
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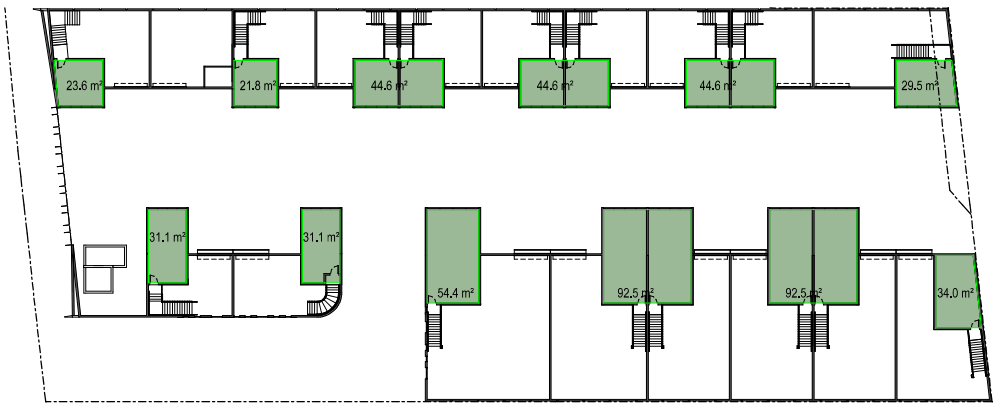
BASEMENT



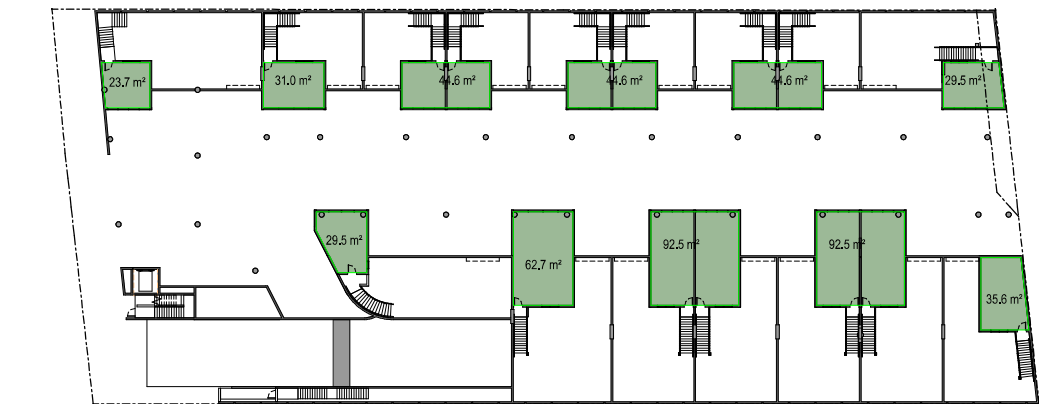
LEVEL 1



GROUND



LEVEL 1 MEZZANINE



GROUND MEZZANINE

GROSS FLOOR AREA	
Level	Area
BASEMENT	1900.9 m <sup>2</sup>
GROUND	1375.8 m <sup>2</sup>
GROUND MEZZANINE	530.8 m <sup>2</sup>
LEVEL 1	1403.9 m <sup>2</sup>
LEVEL 1 MEZZANINE	544.6 m <sup>2</sup>
Grand total	5755.9 m <sup>2</sup>

**GROSS FLOOR AREA DEFINITION**

gross floor area means the sum of the floor area of each floor of a building measured from the internal face of external walls, or from the internal face of walls separating the building from any other building, measured at a height of 1.4 metres above the floor, and includes—

- (a) the area of a mezzanine, and
- (b) habitable rooms in a basement or an attic, and
- (c) any shop, auditorium, cinema, and the like, in a basement or attic,

but excludes—

- (d) any area for common vertical circulation, such as lifts and stairs, and
- (e) any basement—
  - (i) storage, and
  - (ii) vehicular access, loading areas, garbage and services, and
- (f) plant rooms, lift towers and other areas used exclusively for mechanical services or ducting, and
- (g) car parking to meet any requirements of the consent authority (including access to that car parking), and
- (h) any space used for the loading or unloading of goods (including access to it), and
- (i) terraces and balconies with outer walls less than 1.4 metres high, and
- (j) voids above a floor at the level of a storey or storey above.

PRELIMINARY

Revisions				
P2	24.03.22	For Coordination	AT	
P3	04.04.22	For Coordination	AT	
P4	05.04.22	For Coordination	AT	
P5	06.04.22	For Coordination	AT	
P6	08.04.22	For Coordination	AT	

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Project / **101 - 105 Old Pittwater Road**  
101 - 105 Old Pittwater Road  
Brookvale

Drawing / **Gross Floor Area**

Project No / **222008**

Author / **AT**

Scale: @ A1 / **1 : 400**

Drawing No. / **SK05.01**

Revision / **P6**

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## **Selected Site Photographs**





Photograph 1: View from Old Pittwater Road



Photograph 2: Stone display showroom



Photograph 3: Cracked pavement and drain



Photograph 4: Eastern ramp





Photograph 5: Timber storage



Photograph 6: Waste storage



Photograph 7: Bin storage



Photograph 8: Garden area in west of site



## **Lotsearch Environmental Risk and Planning Report**



# LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

**Date: 14 Jan 2022 16:27:30**

**Reference: LS028183 EP**

**Address: 99-105 Old Pittwater Road, Brookvale, NSW 2100**

**Disclaimer:**

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features.

You should obtain independent advice before you make any decision based on the information within the report.

The detailed terms applicable to use of this report are set out at the end of this report.

## Dataset Listing

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

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Finance, Services & Innovation	04/01/2022	04/01/2022	Quarterly	-	-	-	-
Topographic Data	NSW Department of Finance, Services & Innovation	25/06/2019	25/06/2019	As required	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	10/12/2021	09/12/2021	Monthly	1000m	0	2	4
Contaminated Land Records of Notice	Environment Protection Authority	11/01/2022	11/01/2022	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	07/01/2022	11/10/2017	Quarterly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	12/05/2021	07/03/2017	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	15/02/2021	13/07/2012	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	14/12/2021	14/07/2021	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	29/10/2021	29/10/2021	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	29/10/2021	29/10/2021	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	06/01/2022	06/01/2022	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	06/01/2022	06/01/2022	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	02/02/2021	13/12/2018	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	21/12/2021	21/12/2021	Monthly	1000m	0	1	3
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	21/12/2021	21/12/2021	Monthly	1000m	0	0	3
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	21/12/2021	21/12/2021	Monthly	1000m	0	1	7
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	62	1009	1028
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	132	132
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	46	103
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	0	16
Points of Interest	NSW Department of Finance, Services & Innovation	19/08/2021	19/08/2021	Quarterly	1000m	0	0	23
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	1
Tanks (Points)	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Finance, Services & Innovation	19/08/2021	19/08/2021	Quarterly	1000m	0	0	27
State Forest	Forestry Corporation of NSW	25/02/2021	14/02/2021	Annually	1000m	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	22/01/2021	11/12/2020	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1000m	1	1	1
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	26/10/2020	21/02/2018	Annually	1000m	0	0	0
Groundwater Boreholes	NSW Dept. of Primary Industries - Water NSW; Commonwealth of Australia (Bureau of Meteorology)	24/07/2018	23/07/2018	Annually	2000m	0	0	30

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Geological Units 1:100,000	NSW Department of Planning, Industry and Environment	20/08/2014		Annually	1000m	1	2	3
Geological Structures 1:100,000	NSW Department of Planning, Industry and Environment	20/08/2014		Annually	1000m	0	0	1
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	19/05/2017	17/02/2011	As required	1000m	1	1	2
Soil Landscapes of Central and Eastern NSW	NSW Department of Planning, Industry and Environment	14/10/2020	27/07/2020	Annually	1000m	1	1	8
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	07/01/2022	17/12/2021	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	1	1	2
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	19/08/2021	05/08/2021	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	07/01/2022	07/01/2022	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Industry	07/01/2022	07/01/2022	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	07/01/2022	07/01/2022	Monthly	1000m	10	10	10
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	15/11/2021	07/12/2018	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	15/11/2021	05/11/2021	Monthly	1000m	1	2	37
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	18/05/2021	20/11/2019	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	18/05/2021	20/11/2019	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	19/08/2021	25/06/2021	Quarterly	1000m	0	0	0
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	07/01/2022	17/12/2021	Monthly	1000m	0	0	7
Bush Fire Prone Land	NSW Rural Fire Service	10/01/2022	08/12/2021	Weekly	1000m	0	1	3
Native Vegetation of the Sydney Metropolitan Area	NSW Office of Environment & Heritage	01/03/2017	16/12/2016	As required	1000m	0	2	30
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	24/02/2021	19/03/2020	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	14/08/2017	15/05/2017	Annually	1000m	0	0	0
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000m	0	0	0
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	10/01/2022	10/01/2022	Weekly	10000m	-	-	-



# Site Diagram

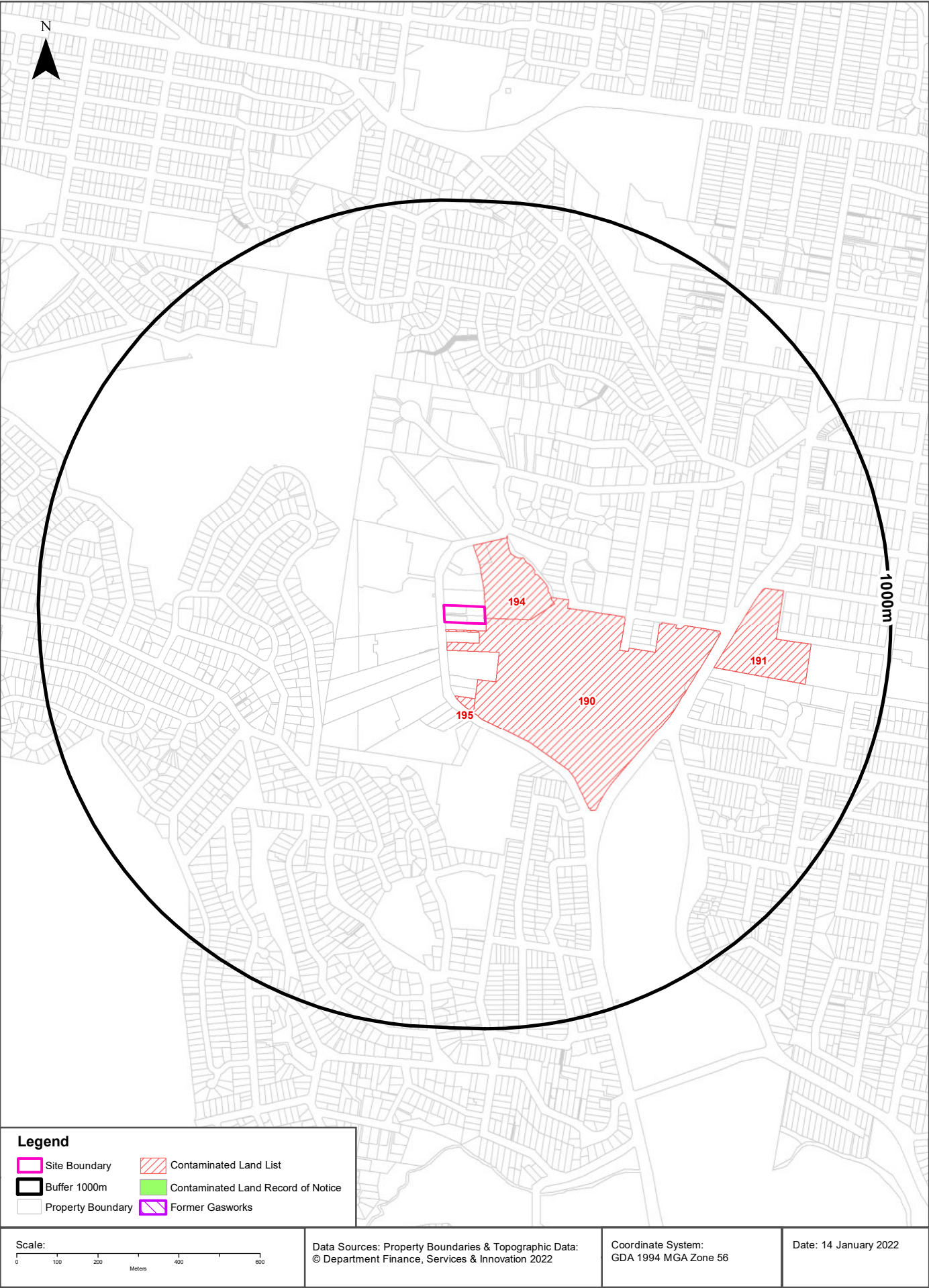
99-105 Old Pittwater Road, Brookvale, NSW 2100



<b>Legend</b> <div><div></div> Site Boundary</div> <div><div></div> Internal Parcel Boundaries</div>	<b>Total Area:</b> 4214m <sup>2</sup> <b>Total Perimeter:</b> 285m  <small>Disclaimers:</small> 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.	<b>Scale:</b> 0 15 30 Meters  Data Source Aerial Imagery: © Aerometrex Pty Ltd  Coordinate System: GDA 1994 MGA Zone 56  Date: 14 January 2022
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# Contaminated Land

99-105 Old Pittwater Road, Brookvale, NSW 2100





# Contaminated Land

99-105 Old Pittwater Road, Brookvale, NSW 2100

## 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
190	Warringah Mall	Cnr Condamine Street, Old Pittwater Rd & Cross Street	Brookvale	Other Industry	Regulation under CLM Act not required	Current EPA List	Premise Match	0m	South East
194	Harrison Manufacturing	75 Old Pittwater Road	Brookvale	Other Industry	Regulation under CLM Act not required	Current EPA List	Premise Match	0m	North East
195	Littles Dry Cleaning	123 Old Pittwater Road	Brookvale	Other Industry	Regulation under CLM Act not required	Current EPA List	Premise Match	180m	South
191	Brookvale Bus Depot	630-636 Pittwater Road	Brookvale	Other Petroleum	Regulation under CLM Act not required	Current EPA List	Premise Match	573m	East

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

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

EPA site management class	Explanation
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

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

## Contaminated Land

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

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

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

### Former Gasworks

Former Gasworks within the dataset buffer:

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

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

## Waste Management & Liquid Fuel Facilities

99-105 Old Pittwater Road, Brookvale, NSW 2100

### National Waste Management Site Database

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

Site Id	Owner	Name	Address	Suburb	Class	Landfill	Reprocess	Transfer	Comments	Loc Conf	Dist	Direction
N/A	No records in buffer											

Waste Management Facilities Data Source: Geoscience Australia

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### National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

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

National Liquid Fuel Facilities Data Source: Geoscience Australia

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# PFAS Investigation & Management Programs

99-105 Old Pittwater Road, Brookvale, NSW 2100

## EPA PFAS Investigation Program

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

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

EPA PFAS Investigation Program: Environment Protection Authority  
© State of New South Wales through the Environment Protection Authority

## Defence PFAS Investigation Program

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

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

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

## Defence PFAS Management Program

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

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

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

## Airservices Australia National PFAS Management Program

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

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

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

## Defence Sites

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Defence 3 Year Regional Contamination Investigation Program

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

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

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

## EPA Other Sites with Contamination Issues

99-105 Old Pittwater Road, Brookvale, NSW 2100

### EPA Other Sites with Contamination Issues

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

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

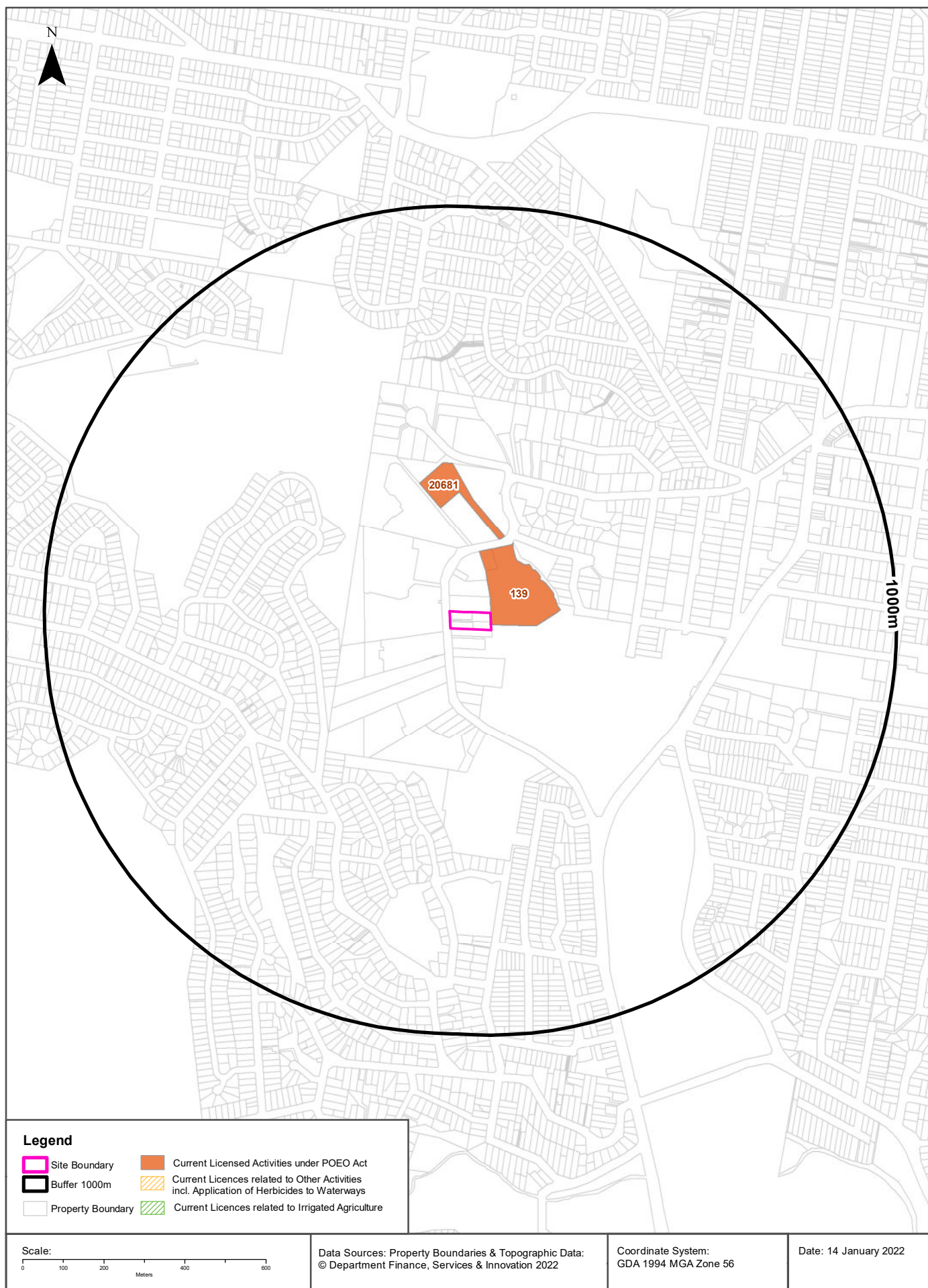
Sites within the dataset buffer:

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

EPA Other Sites with Contamination Issues: Environment Protection Authority  
© State of New South Wales through the Environment Protection Authority

# Current EPA Licensed Activities

99-105 Old Pittwater Road, Brookvale, NSW 2100





## EPA Activities

99-105 Old Pittwater Road, Brookvale, NSW 2100

## Licensed Activities under the POEO Act 1997

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

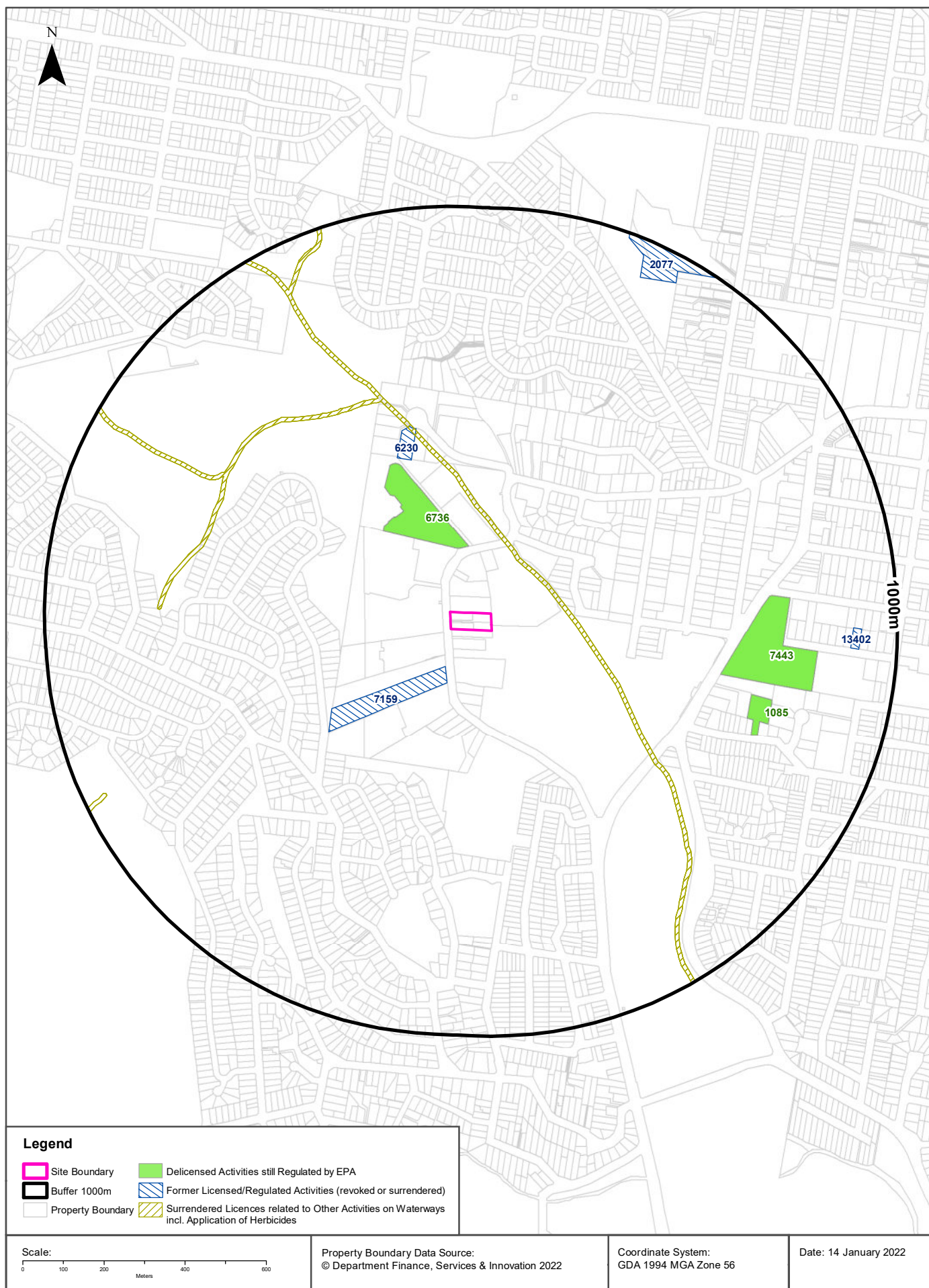
EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
139	HARRISON MANUFACTURING CO PTY LIMITED	HARRISON MANUFACTURING CO PTY LTD	75 OLD PITTWATER ROAD	BROOKVALE	Petroleum products and fuel production	Premise Match	0m	North East
20681	Cozens Paper Recycling Pty Ltd		UNIT 3 100 OLD PITTWATER ROAD, BROOKVALE, NSW 2100		Resource recovery	Premise Match	182m	North
20681	Cozens Paper Recycling Pty Ltd		UNIT 3 100 OLD PITTWATER ROAD, BROOKVALE, NSW 2100		Waste storage	Premise Match	182m	North

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

# Delicensed & Former Licensed EPA Activities

99-105 Old Pittwater Road, Brookvale, NSW 2100



## EPA Activities

99-105 Old Pittwater Road, Brookvale, NSW 2100

### 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
6736	PHARMACEUTICAL FILLERS PTY. LIMITED	PHARMACEUTICAL FILLERS PTY LIMITED	5-8/106 OLD PITTWATER ROAD	BROOKVALE	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	157m	North West
7443	STATE TRANSIT AUTHORITY OF NSW	BROOKVALE BUS DEPOT	630-636 PITTWATER ROAD	BROOKVALE	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	573m	East
1085	HOLCIM (AUSTRALIA) PTY LTD	BROOKVALE CONCRETE	18 WILLIAM STREET	BROOKVALE	Concrete works	Premise Match	657m	East

Delicensed Activities Data Source: Environment Protection Authority  
© State of New South Wales through the Environment Protection Authority

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

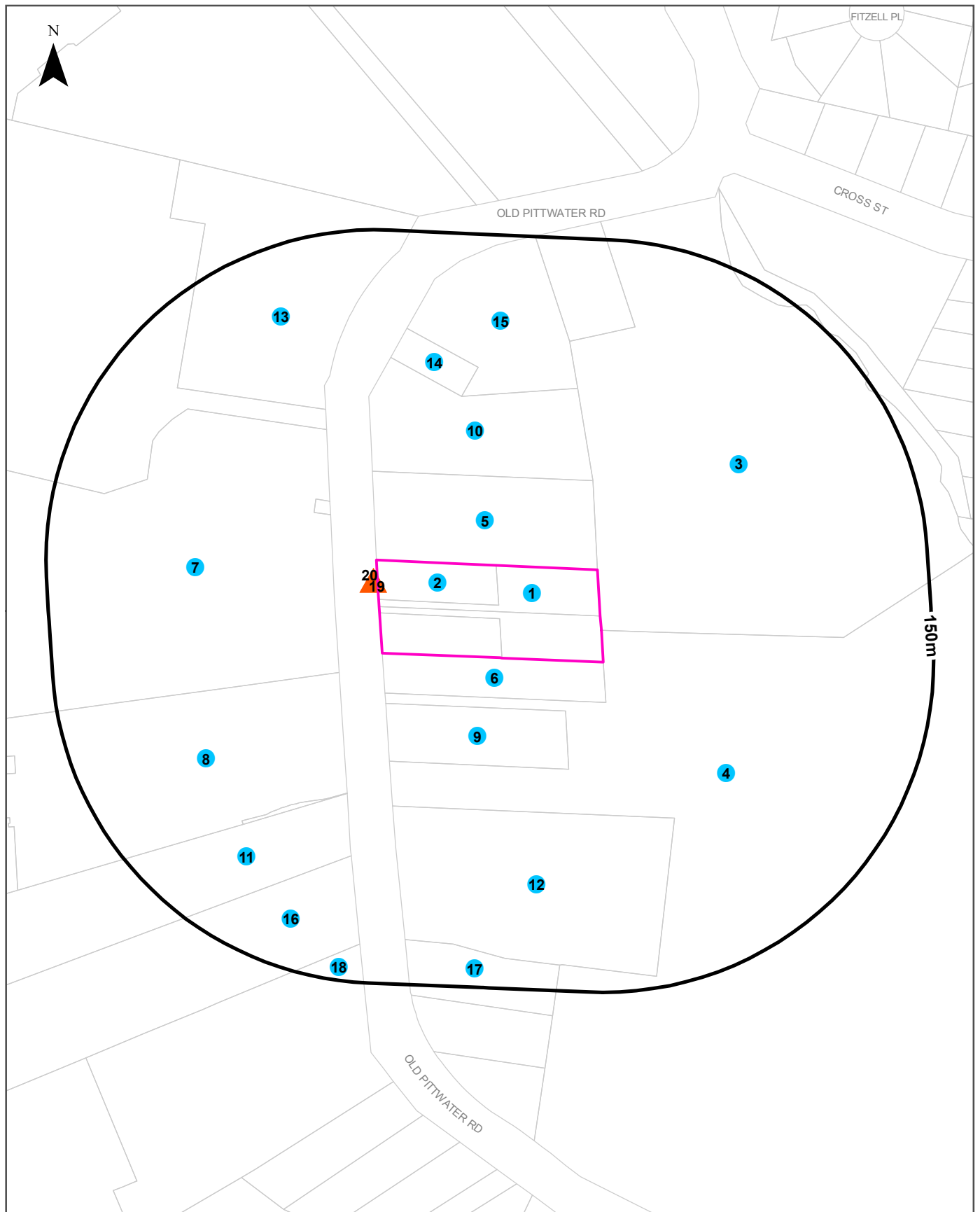
Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
7159	SLINGO & WILLIAMS CREPE PAPER PTY LIMITED	130 OLD PITTWATER ROAD, BROOKVALE, NSW 2100	Surrendered	30/10/2000	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	93m	South 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	141m	North
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	141m	North
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	141m	North
6230	G E CRANE SECURITIES PTY LTD	10 CLEARVIEW PLACE, BROOKVALE, NSW 2100	Surrendered	22/12/1999	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	387m	North
13402	URETHANE COATINGS PTY LTD	10 Powells Road, BROOKVALE, NSW 2100	Surrendered	18/05/2011	Toxic substances production	Premise Match	885m	East
2077	THE AUSTRAL BRICK CO PTY LTD	FEDERAL PARADE, BROOKVALE, NSW 2100	Surrendered	27/09/1999	Ceramics production	Premise Match	908m	North East

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

# Historical Business Directories

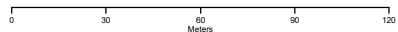
99-105 Old Pittwater Road, Brookvale, NSW 2100



## Legend

- Site Boundary
- Buffer 150m
- 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:



Coordinate System:  
GDA 1994 MGA Zone 56

Date: 14 January 2022

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

# Historical Business Directories

99-105 Old Pittwater Road, Brookvale, NSW 2100

## Business Directory Records 1950-1991 Premise or Road Intersection Matches

Universal Business Directory records 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	Display & Exhibition Equipment &/or Supplies	Efficiency Displays (Marketing) Pty. Ltd., 103 Old Pittwater Rd., Brookvale. 2100	41511	1991	Premise Match	0m	On-site
	Seals - Oil &/or Mechanical	Sealing Devices Pty. Ltd., 101 Old Pittwater Rd., Brookvale. 2100	97172	1991	Premise Match	0m	On-site
	SECURITY DOORS & GRILLES.	Capricorn Designs Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100	85576	1986	Premise Match	0m	On-site
	SHEET METAL WORKERS.	Capricorn Designs Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100	85990	1986	Premise Match	0m	On-site
	DISPLAY FITTINGS & STANDS MFRS. &/OR DIST. &/OR SUPPLIERS.	Efficiency Displays (Marketing) Pty. Ltd., 101 Old Pittwater Rd., Brookvale. 2100	24291	1986	Premise Match	0m	On-site
	DISPLAY SPECIALISTS.	Efficiency Displays (Marketing) Pty. Ltd., 101 Old Pittwater Rd., Brookvale. 2100	24349	1986	Premise Match	0m	On-site
	PROTECTIVE COATINGS.	Gemini Fabrications Pty. Ltd. 105 Old Pittwater Road, Brookvale. 2100	78065	1986	Premise Match	0m	On-site
	PROTECTIVE COATINGS.	Gemini Fabrications Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100	78068	1986	Premise Match	0m	On-site
	POWDERCOATING EQUIPMENT &/OR SERVICE.	Gemini Fabrications Pty. Ltd., 105 Old Pittwater Rd., Brookville. 2100	75697	1986	Premise Match	0m	On-site
	CABINET MAKERS.	Moda Kitchens, Unit 3, 105 Old Pittwater Rd., Brookvale. 2100	11072	1986	Premise Match	0m	On-site
	KITCHEN UNITS MFRS. &/OR DIST. &/OR INSTALLERS.	Moda Kitchens, Unit 3, 105 Old Pittwater Rd., Brookvale. 2100	50468	1986	Premise Match	0m	On-site
	CABINET MAKERS.	Supreme Kitchens Pty. Ltd., 3/105 Old Pittwater Rd., Brookvale. 2100	11098	1986	Premise Match	0m	On-site
	KITCHEN UNITS MFRS. &/OR DIST. &/OR INSTALLERS.	Supreme Kitchens Pty. Ltd., 3/105 Old Pittwater Rd., Brookvale. 2100	50524	1986	Premise Match	0m	On-site
	PARTITION MFRS. &/OR DIST.(P1840)	A.J.Z. Veneer Products, 105 Old Pittwater Rd., Brookvale. 2100.	63055	1982	Premise Match	0m	On-site
	veneer MFRS. &/OR MERCHANTS. (V1450)	A.J.Z. Veneer Products, 105 Old Pittwater Rd., Brookvale. 2100.	83273	1982	Premise Match	0m	On-site
	WROUGHT IRON WORKERS. (W9440)	Capricorn Designs, 5/105 Old Pittwater Rd., Brookvale. 2100.	85465	1982	Premise Match	0m	On-site
	DISPLAY FITTINGS & STANDS MFRS. &/OR DIST. &/OR SUPPLIERS. (D4260)	Efficiency Displays Pty. Ltd., 101 Old Pittwater Rd., Brookvale. 2100.	21699	1982	Premise Match	0m	On-site
	PARTICLE BOARD MFRS. &/OR DIST. (P1820)	Ross Sales Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100.	63051	1982	Premise Match	0m	On-site
	PLYWOOD MFRS. &/OR MERCHANTS &/OR DIST. (P6780)	Ross Sales Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100.	65464	1982	Premise Match	0m	On-site
	ALUMINIUM PRODUCTS MFRS.&/OR DIST. (A5160)	Summerleisure, 101 Old Pittwater Rd., Brookvale. 2100.	2490	1982	Premise Match	0m	On-site
	FURNITURE-GARDEN &/OR ORNAMENTAL MFRS. &/OR DIST.&/OR W/SALERS. (F7650)	Summerleisure, 101 Old Pittwater Rd., Brookvale. 2100.	34902	1982	Premise Match	0m	On-site
	FURNITURE MFRS. - OUTDOORS.(F8300)	Treated Timber Products Pty. Ltd., 3/105 Old Pittwater Rd., Brookvale. 2100.	35253	1982	Premise Match	0m	On-site

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	FURNITURE-GENERAL-MFRS.&/OR W/SALERS. (F7675)	Treated Timber Products Pty. Ltd., 3/105 Old Pittwater Rd., Brookvale. 2100.	35131	1982	Premise Match	0m	On-site
	LAMINATED MATERIALS &/OR PRODUCTS MFRS. (L0600)	Vinyl Laminators, 105 Old Pittwater Rd., Brookvale. 2100.	44576	1982	Premise Match	0m	On-site
	PARTITIONS-OFFICE &/OR. FACTORY MFRS.	A. J. Z. Veneer Products Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100	56158	1978	Premise Match	0m	On-site
	veneer MFRS. &/OR MERCHANTS.	A.J.Z. Veneer Products Pty. Ltd., 105 Old Pittwater Rd., Brookvale.2100	73411	1978	Premise Match	0m	On-site
	DISPLAY FITTINGS & STANDS MFRS. &/OR DIST. &/OR SUPPLIERS.	Efficiency Displays Pty. Ltd., 101 Old Pittwater Rd., Brookvale. 2100	19168	1978	Premise Match	0m	On-site
	DISPLAY FITTINGS & STANDS MFRS. &/OR DIST. &/OR SUPPLIERS.	Efficiency Displays Pty. Ltd., 101 Old Pittwater Rd., Brookvale. 2100	19167	1978	Premise Match	0m	On-site
	PARTICLE BOARD MFRS. &/OR DIST.	Ross Sales Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100	56156	1978	Premise Match	0m	On-site
	PLYWOOD MFRS. &/OR MERCHANTS &/OR DIST.	Ross Sales Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100	58453	1978	Premise Match	0m	On-site
	ALUMINIUM PRODUCTS MFRS. &/OR DIST	Summerleisure, 101 Old Pittwater Rd., Brookvale. 2100	2341	1978	Premise Match	0m	On-site
	FURNITURE-OCCASIONAL-MFRS. &/OR W/SALERS.	Summerleisure, 101 Old Pittwater Rd., Brookvale. 2100	32102	1978	Premise Match	0m	On-site
	FURNITURE - GARDEN &/OR ORNAMENTAL MFRS. &/OR DIST. &/OR W/SALERS.	Summerleisure. 101 Old Pittwater Rd., Brookvale. 2100	31531	1978	Premise Match	0m	On-site
	FURNITURE - GARDEN &/OR ORNAMENTAL MFRS. &/OR DIST. &/OR W/SALERS.	Summerleisure. 101 Old Pittwater Rd., Brookvale. 2100	31530	1978	Premise Match	0m	On-site
	LAMINATED MATERIALS &/OR PRODUCTS MFRS.	Vinyl Laminators Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100	39585	1978	Premise Match	0m	On-site
	PARTITIONS-OFFICE &/OR FACTORY MFRS.	A.J.Z. Veneer Products Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100	66137	1975	Premise Match	0m	On-site
	veneer MFRS. &/OR MERCHANTS	A.J.Z. Veneer Products Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100	86076	1975	Premise Match	0m	On-site
	STATIONERY- CONTINUOUS	Farrington Industries Pty. Ltd., 101 Old Pittwater Rd. Brookvale. 2100	80321	1975	Premise Match	0m	On-site
	TOY MFRS. &/OR DIST.	Francell Toys, 105 Old Pittwater Rd., Brookvale. 2100	84546	1975	Premise Match	0m	On-site
	BUILDERS &/OR BUILDING CONTRACTORS.	McKenzie Building Co. Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100.	8582	1975	Premise Match	0m	On-site
	FIBRE &/OR FIBRE GOODS MFRS. &/OR DIST.	Precision Fibres, 105 Old Pittwater Rd., Brookvale. 2100.	31542	1975	Premise Match	0m	On-site
	LAMINATED MATERIALS &/OR PRODUCTS MFRS.	Vinyl Laminators Pty. Ltd., 105 Old Pittwater Rd., Brookvale. 2100	46694	1975	Premise Match	0m	On-site
	CONFECTIONERS-MANUFACTURING &/OR WHOLESALE	Blevins-Purkiss Pty. Ltd., 105 Old Pittwater Rd., Brookvale.	285404	1970	Premise Match	0m	On-site
	CABINETMAKERS (C006)	Cabinet Craft., 101 Old Pittwater Rd., Brookvale	275107	1970	Premise Match	0m	On-site
	ANTIQUE RESTORERS & REPAIRERS (A410)	Cabinetcraft, 101 Old Pittwater Rd., Brookvale	261804	1970	Premise Match	0m	On-site
	FURNITURE FRAMES MFRS. (F725)	Cabinetcraft., 101 Old Pittwater Rd., Brookvale	308787	1970	Premise Match	0m	On-site
	FURNITURE REPAIRERS/REMODELLERS (F790)	Cabinetcraft., 101 Old Pittwater Rd., Brookvale	308894	1970	Premise Match	0m	On-site
	FRENCH POLISHERS (F597)	Cablnetcraft., 101-105 Old Pittwater Rd., Brookvale	306243	1970	Premise Match	0m	On-site
	BUILDERS' SUPPLIERS (B814)	L. K.H. Pty. Ltd., 105 Old Pittwater Rd., Brookvale	271446	1970	Premise Match	0m	On-site
	LAMINATED MATERIALS/PRODUCTS MANUFACTURERS (L070)	L.K.H. Pty. Ltd., 105 Old Pittwater Rd., Brookvale	322365	1970	Premise Match	0m	On-site
	PLASTIC FABRICATORS & VACUUM FORMERS	L.K.H. Pty. Ltd., 105 Old Pittwater Rd., Brookvale	349542	1970	Premise Match	0m	On-site



Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	ADVERTISING DISPLAY SPECIALISTS	Wentworth Shields Industries Pty. Ltd., 101 Old Pittwater Rd., Brookvale, 2100	260200	1970	Premise Match	0m	On-site
	Builders' Suppliers	L K H, Pty. Ltd., 105 Old Pittwater Rd., Brookvale	56208	1965	Premise Match	0m	On-site
	Laminates Materials/Products Manufacturers	L.K.H. Pty. Ltd., 105 Old Pittwater Rd., Brookvale	106951	1965	Premise Match	0m	On-site
	Plastic Fabricators & Vacuum Formers	L.K.H. Pty. Ltd., 105 Old Pittwater Rd., Brookvale	133793	1965	Premise Match	0m	On-site
	Wax Mfrs. &/or Importers	Technical Waxes (Atsia) Pty. Ltd., 105 Old Pittwater Rd., Brookvale	156091	1965	Premise Match	0m	On-site
2	Wire Products Mfrs.	Tusgo Pty. Ltd., 99 Old Pittwater Rd., Brookvale	157664	1965	Premise Match	0m	On-site
	Furniture - General - Mfrs. &/or Wholesalers	Tusks Pty. Ltd., 99 Old Pittwater Rd., Brookvale	93391	1965	Premise Match	0m	On-site
	Display Fittings - Mfrs. &/or Suppliers	Tuslo Pty. Ltd., 99 Old Pittwater Rd., Brookvale	74461	1965	Premise Match	0m	On-site
	Interior Decorators	Tuslo Pty. Ltd., 99 Old Pittwater Rd., Brookvale	105197	1965	Premise Match	0m	On-site
	Lampshade & Lampstand Mfrs. &/or Specialists	Tuslo Pty. Ltd., 99 Old Pittwater Rd., Brookvale	106992	1965	Premise Match	0m	On-site
	Wrought Iron Workers	Tuslo Pty. Ltd., 99 Old Pittwater Rd., Brookvale	158497	1965	Premise Match	0m	On-site
3	Associations Employers Industrial &/or Professional	Association of Cleaning Contractors of Australia, Ground Fl. 75 Old Pittwater Rd., Brookvale 2100	34534	1991	Premise Match	0m	North East
	Engineers Electronic	Binary Engineering Pty Ltd, Suite 1AAA/75 Old Pittwater Rd Brookvale 2100	43656	1991	Premise Match	0m	North East
	Computer Software	Centreline Drawing Services Pty. Ltd., 75 Old Pittwater Rd., Brookvale 2100	40288	1991	Premise Match	0m	North East
	Oil Blenders	Harrison A. S. & Company Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	56057	1991	Premise Match	0m	North East
	Motor Oil, Spirit & Grease Mfrs &/or Imps &/or Dists	Harrison Manufacturing Co. Pty Ltd, 75 Old Pittwater Rd., Brookvale 2100	54044	1991	Premise Match	0m	North East
	Chemists Biological	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale 2100	38979	1991	Premise Match	0m	North East
	Oil Lubricating Mfrs &/or Merchants	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	56095	1991	Premise Match	0m	North East
	Paint Dry Colours &/or Pigment Mfrs &/or Dists	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	56620	1991	Premise Match	0m	North East
	Oil Blenders	Harrison Manufacturing Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	56058	1991	Premise Match	0m	North East
	Motor Oil, Spirit & Grease Mfrs &/or Imps &/or Dists	Harrison, A. S. & Company Pty Ltd., 75 Old Pittwater Rd., Brookvale 2100	54045	1991	Premise Match	0m	North East
	Chemical Mfrs &/or Imps &/or Dists	Harrison, A. S. & Company Pty. Ltd., 75 Old Pittwater Rd., Brookvale 2100	38896	1991	Premise Match	0m	North East
	Chemists Biological	Harrison, A. S. & Company Pty. Ltd., 75 Old Pittwater Rd., Brookvale 2100	38980	1991	Premise Match	0m	North East
	Paint Dry Colours &/or Pigment Mfrs &/or Dists	Harrison, A. S. & Company Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	56619	1991	Premise Match	0m	North East
	Engineers Civil	Maitland A G Pty Ltd, 1st Fl/75 Old Pittwater Rd Brookvale 2100	43373	1991	Premise Match	0m	North East
	Engineers Constructional	Maitland A G Pty Ltd, 1st Fl/75 Old Pittwater Rd Brookvale 2100	43432	1991	Premise Match	0m	North East
	Engineers Consulting	Montano R & R Pty Ltd, 75 Old Pittwater Rd., Brookvale 2100	43501	1991	Premise Match	0m	North East
	COMPUTER-SOFTWARE.	Centre Line Drawing Services Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	19639	1986	Premise Match	0m	North East
	DRAFTING &/OR PRINTING SERVICES.	Centre Line Drawing Services Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	24732	1986	Premise Match	0m	North East
	ACCOUNTANTS & AUDITORS.	Docker, Wilfrid & Docker Services Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	389	1986	Premise Match	0m	North East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
3	TAXATION CONSULTANTS.	Docker, Wilfrid & Docker Services Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	92212	1986	Premise Match	0m	North East
	PHARAMACEUTICAL & INDUSTRIAL ENZYMES MFRS. DIST.	Harrison A. S. & Company Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	72662	1986	Premise Match	0m	North East
	PAINT - DRY COLOURS &/OR PIGMENT - MFRS. &/OR IMPS. &/OR SUPPLIERS.	Harrison A.S. & Company Pty. Ltd. 75 Old Pittwater Rd., Brookvale. 2100	71458	1986	Premise Match	0m	North East
	PAINT - DRY COLOURS &/OR PIGMENT - MFRS. &/OR IMPS. &/OR SUPPLIERS.	Harrison Manufacturing Co. Pty. Ltd. 75 Old Pittwater Rd. Brookvale. 2100	71459	1986	Premise Match	0m	North East
	OIL BLENDERS.	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd. Brookvale. 2100	70498	1986	Premise Match	0m	North East
	CHEMICAL MFRS. &/OR IMPS. &/OR DIST.	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	13663	1986	Premise Match	0m	North East
	LUBRICATING OILS &/OR GREASES.	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	51898	1986	Premise Match	0m	North East
	PETROLEUM PRODUCTS MFRS. &/OR IMPS. &/OR DIST.	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	72646	1986	Premise Match	0m	North East
	PHARAMACEUTICAL & INDUSTRIAL ENZYMES MFRS. DIST.	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	72663	1986	Premise Match	0m	North East
	CHEMICAL IMPORTERS &/OR DIST.	Harrison, A. S. & Company Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	13536	1986	Premise Match	0m	North East
	CHEMICAL MFRS. &/OR IMPS. &/OR DIST.	Harrison, A. S. & Company Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	13662	1986	Premise Match	0m	North East
	OIL BLENDERS.	Harrison, A. S. & Company Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	70497	1986	Premise Match	0m	North East
	PETROLEUM PRODUCTS MFRS. &/OR IMPS. &/OR DIST.	Harrison, A.S. & Company Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	72645	1986	Premise Match	0m	North East
	ACCOUNTANTS & AUDITORS.	Kemsley, Raymond & Company, 75 Old Pittwater Rd., Brookvale. 2100	637	1986	Premise Match	0m	North East
	TAXATION CONSULTANTS.	Kemsley, Raymond & Company, 75 Old Pittwater Rd., Brookvale. 2100	92311	1986	Premise Match	0m	North East
	ACCOUNTANTS & AUDITORS. (A0360)	Barnes, Ian F. & Co., 75 Old Pittwater Rd., Brookvale. 2100.	161	1982	Premise Match	0m	North East
	CHEMICAL MFRS. &/OR IMPS.&/OR DIST. (C3855)	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100.	14437	1982	Premise Match	0m	North East
	GREASE MFRS. (G7250)	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100.	37233	1982	Premise Match	0m	North East
	OIL BLENDERS. (O1050)	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100.	61532	1982	Premise Match	0m	North East
	MEDICAL EQUIPMENT MFRS. &/OR DIST. (M1960)	Kontron Pty. Ltd., 75 Old Pittwater Rd., Brookvale, 2100.	46901	1982	Premise Match	0m	North East
	ENGINEERS - CONSULTING. (E6600)	Montano, R. R., 75 Old Pittwater Rd., Brookvale. 2100.	27045	1982	Premise Match	0m	North East
	OIL BLENDERS.	Harrison Manufacturing Co Pty Ltd, 75 Old Pittwater Rd, Brookvale 2100	54737	1978	Premise Match	0m	North East
	CHEMISTS-CONSULTING &/OR INDUSTRIAL RESEARCH.	Harrison Manufacturing Co. Pty. Ltd, 75 Old Pittwater Rd, Brookvale. 2100	12712	1978	Premise Match	0m	North East
	CHEMISTS MFRG. &/OR W/SALERS.	Harrison Manufacturing Co. Pty. Ltd, 75 Old Pittwater Rd., Brookvale. 2100	12801	1978	Premise Match	0m	North East
	CHEMICAL MFRS. &/OR DIST. &/OR IMPS.	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	12573	1978	Premise Match	0m	North East
	GREASE MFRS.	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	33546	1978	Premise Match	0m	North East
	MEDICAL EQUIPMENT MFRS. &/OR DIST.	Kontron Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	41989	1978	Premise Match	0m	North East
	ENGINEERS-CONSULTING.	Montano, R. R., 75 Old Pittwater Rd., Brookvale. 2100	24117	1978	Premise Match	0m	North East
	CHEMISTS MFRG. &/OR W/SALERS.	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd, Brookvale. 2100.	14810	1975	Premise Match	0m	North East



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3	CHEMISTS-CONSULTING &/OR INDUSTRIAL RESEARCH.	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd, Brookvale. 2100.	14715	1975	Premise Match	0m	North East
	GREASE MFRS.	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	39013	1975	Premise Match	0m	North East
	OIL BLENDERS.	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100	64589	1975	Premise Match	0m	North East
	CHEMICAL MFRS. &/OR DISTS. &/OR IMPS	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale. 2100.	14536	1975	Premise Match	0m	North East
	OILS-LUBRICATING-MERCHANTS(O 200)	HARRISON MANUFACTURING CO. PTY. LTD., 71 OLD PITTWATER RD., BROOKVALE	345161	1970	Premise Match	0m	North East
	OILS-LUBRICATING-MERCHANTS(O 200)	Harrison Manufacturing Co. Pty. Ltd., 71-75 Old Pittwater Rd., Brookvale, 2100.	345162	1970	Premise Match	0m	North East
	GREASE MANUFACTURERS (G600)	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale	312001	1970	Premise Match	0m	North East
	OIL BLENDERS (O 080)	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale, 2100	344949	1970	Premise Match	0m	North East
	OIL MERCHANTS-GENERAL (O 130)	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale, 2100	345038	1970	Premise Match	0m	North East
	CHEMISTS-INDUSTRIAL	Harrison Manufacturing Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale	279738	1970	Premise Match	0m	North East
	CHEMISTS-MANUFACTURING &/OR WHOLESALE	Harrison Mfrg. Co. Pty. Ltd., 75 Old Pittwater Rd., Brookvale	279865	1970	Premise Match	0m	North East
4	Rubber Good Mfrs &/or Dist	Clark Rubber Store, 115, Warringah Mall Shopping Centre, Brookvale. 2100	97622	1991	Premise Match	0m	South East
	Boat, Launch &/or Yacht Sales &/or Service	Deltacraft Pty. Ltd., 109 Old Pittwater Rd., Brookvale 2100	36259	1991	Premise Match	0m	South East
	Engineers Electronic	Dick Smith Electronics Pty Ltd, Warringah Mall Brookvale 2100	43659	1991	Premise Match	0m	South East
	Booksellers Wholesale	Dymocks., Warringah Mall, Brookvale 2100	36465	1991	Premise Match	0m	South East
	Clothing Mfrs &/or W/salers Sportswear	Jones, Fletcher Staff, 9 Warringah Mall, Brookvale 2100	39581	1991	Premise Match	0m	South East
	Kitchenware &/or Holloware Mfrs &/or Dist	Kitchen Collection, K62 Warringah Mall Shopping Centre, Brookvale. 2100	50367	1991	Premise Match	0m	South East
	Photographic Equipment &/or Supplies Mfrs &/or Imps &/or Dist	Mall Camera Shop, 67, Warringah Mall Shopping Centre., Brookvale. 2100	57477	1991	Premise Match	0m	South East
	Wallpaper &/or Wallcoverings Merchants	Mr Wallpaper, 52 Warringah Mall Shopping Centre Brookvale 2100	65838	1991	Premise Match	0m	South East
	Optical Prescription Dispensers	O.P.S.M, 53 Warringah Mall Shopping Centre Brookvale 2100	56212	1991	Premise Match	0m	South East
	Sailboard Mfrs &/or Distributors	Tradewind Sailboards Australia Pty. Ltd., Warringah Mall Pittwater Rd Brookvale. 2100	61499	1991	Premise Match	0m	South East
	Building Societies	United Permanent Building Society Ltd, 114, Warringah Mall Shopping Centre, Brookvale 2100	37484	1991	Premise Match	0m	South East
	BOAT OAR MFRS.	Abbots Marine Pty. Ltd., Unit 2, 38 Green St. Warringah Mall, Brookvale. 2100	6534	1986	Premise Match	0m	South East
	BOAT, LAUNCH &/OR YACHT BUILDERS &/OR REPAIRERS.	Abbots Marine Pty. Ltd., Unit 2, 38 Green St. Warringah Mall, Brookvale. 2100	6268	1986	Premise Match	0m	South East
	BOAT, LAUNCH &/OR YACHT HIRERS.	Abbots Marine Pty. Ltd., Unit 2, 38 Green St. Warringah Mall, Brookvale. 2100	6392	1986	Premise Match	0m	South East
	MARINE EQUIPMENT MFRS. &/OR DIST.	Abbots Marine Pty. Ltd., Unit 2, 38 Green St. Warringah Mall, Brookvale. 2100	52826	1986	Premise Match	0m	South East
	OUTBOARD MOTOR MFRS. &/OR DIST.	Abbots Marine Pty. Ltd., Unit 2, 38 Green St. Warringah Mall, Brookvale. 2100	71084	1986	Premise Match	0m	South East

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4	OUTBOARD MOTORS - SALES &/OR SERVICE.	Abbots Marine Pty. Ltd., Unit 2, 38 Green St. Warringah Mall, Brookvale. 2100	71092	1986	Premise Match	0m	South East
	BOAT, LAUNCH &/OR YACHT SALES &/OR SERVICE.	Abbots Marine Pty. Ltd., Unit 2, 38 Green St., Warringah Mall, Brookvale. 2100	6445	1986	Premise Match	0m	South East
	GIFT SHOPS.	All Handcraft Supplies, 101 Warringah Mall Shopping Centre, Brookvale. 2100	38763	1986	Premise Match	0m	South East
	ARTISTS SUPPLIES-RETAIL.	All Handcraft Supplies, 101 Warringah Mall Shopping Centre, Brookvale.2100	3924	1986	Premise Match	0m	South East
	CHINA CROCKERY, CRYSTAL, CUTLERY, EARTHENWARE, GLASSWARE DEALERS.	Angus & Coote Pty. Ltd., 56 Warringah Mall, Brookvale. 2100	15097	1986	Premise Match	0m	South East
	GIFT SHOPS.	Angus & Coote Pty. Ltd., 56 Warringah Mall, Brookvale. 2100	38777	1986	Premise Match	0m	South East
	BOOKSELLERS-RETAIL.	Angus & Robertson Bookshops, 116 Warringah Mall Shopping Centre, Brookvale.2100	6878	1986	Premise Match	0m	South East
	DEPARTMENTAL STORES.	B.B.C. Hardware, 84 Warringah Mall Shopping Centre, Brookvale. 2100	23588	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-MENS &/OR BOYS WEAR.	Bennett, R., 97 Warringah Mall Shopping Centre, Brookvale. 2100	18312	1986	Premise Match	0m	South East
	DEPARTMENTAL STORES.	Best & Less, Warringah Mall, Brookvale. 2100	23600	1986	Premise Match	0m	South East
	GIFT SHOPS.	Better Bargains, 24 Warringah Mall, Brookvale. 2100	38856	1986	Premise Match	0m	South East
	TRAVEL GOODS - RETAIL.	Better Bargains, 24 Warringah Mall, Brookvale. 2100	95808	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-LINGERIE.	Bra Shop, The, 28 Warringah Mall, Brookvale. 2100	18199	1986	Premise Match	0m	South East
	CAKE SHOPS &/OR PASTRYCOOKS.	Bread Winner, The, 79 Warringah Mall Shopping Centre, Brookvale. 2100	11558	1986	Premise Match	0m	South East
	BUTCHERS-RETAIL.	Budget Wholesale Meats, 82 Warringah Mall Shopping Centre, Brookvale 2100	9670	1986	Premise Match	0m	South East
	MOTOR CAMPER CONVERSIONS.	Camperize Industries, Rear 109 Old Pittwater Rd., Brookvale. 2100	61768	1986	Premise Match	0m	South East
	STATIONERS - RETAIL.	Card Corner Pty. Ltd., 29 Warringah Mall, Brookvale. 2100	88366	1986	Premise Match	0m	South East
	RUBBER GOODS MFRS. &/OR DISTS.	Clarke Rubber Store, 115 Warringah Mall Shopping Centre, Brookvale. 2100	83784	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-MENS &/OR BOYS WEAR.	Club 30 Mens Wear, 57 Warringah Mall, Brookvale. 2100	18358	1986	Premise Match	0m	South East
	MUSICAL INSTRUMENT DEALERS	Cooke Music Centre, 43 Warringah Mall, Brookvale. 2100	68933	1986	Premise Match	0m	South East
	RECORDS BARS.	Cooke Music Centre, 43 Warringah Mall, Brookvale. 2100	80437	1986	Premise Match	0m	South East
	TAKE-AWAY FOODS.	Corner Cafe, The, 85 Warringah Mall Shopping Centre, Brookvale. 2100.	90700	1986	Premise Match	0m	South East
	RESTAURANTS.	Corner Cafe, The, 85 Warringah Mall Shopping Centre., Brookvale. 2100	81394	1986	Premise Match	0m	South East
	DELICATESSENS.	Cut-Price Deli, 80 Warringah Mall Shopping Centre, Brookvale. 2100	21655	1986	Premise Match	0m	South East
	CONFECTIONERS-RETAIL.	Darrel Lee, 17 Warringah Mall Shopping Centre, Brookvale. 2100	20010	1986	Premise Match	0m	South East
	DEPARTMENTAL STORES.	David Jones Ltd., Warringah Mall, Brookvale. 2100	23648	1986	Premise Match	0m	South East
	MERCHANTS-GENERAL.	David Jones Ltd., Warringah Mall, Brookvale. 2100	58574	1986	Premise Match	0m	South East
	BOAT, LAUNCH &/OR YACHT BUILDERS &/OR REPAIRERS.	Deltacraft Pty. Ltd., 109 Old Pittwater Rd., Brookvale. 2100	6302	1986	Premise Match	0m	South East
	BOAT, LAUNCH &/OR YACHT SALES &/OR SERVICE.	Deltacraft Pty. Ltd., 109 Old Pittwater Rd., Brookvale. 2100	6464	1986	Premise Match	0m	South East
	CAKE SHOPS &/OR PASTRYCOOKS.	Donut Dan, 22 Warringah Mall Shopping Centre, Brookvale. 2100	11641	1986	Premise Match	0m	South East

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4	STATIONERS - RETAIL.	Dymocks, 16 Warringah Mall, Brookvale., 2100	88402	1986	Premise Match	0m	South East
	BOOKSELLERS-RETAIL.	Dymocks, 16 Warringah Mall, Brookvale.2100	7002	1986	Premise Match	0m	South East
	DRESS FABRIC RETAILERS.	Fabric Collection, The, 55 Warringah Mall Shopping Centre, Brookvale. 2100	25009	1986	Premise Match	0m	South East
	FOOTWEAR RETAILERS.	Fays, 79 Warringah Mall Shopping Centre, Brookvale. 2100	34693	1986	Premise Match	0m	South East
	FLORISTS-RETAIL.	Fergusons Florist Shoppe, Warringah Mall, Brookvale. 2100	33730	1986	Premise Match	0m	South East
	GARDENERS SUPPLIES-RETAIL.	Fergusons Florist Shoppe, Warringah Mall, Brookvale. 2100	38328	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-LADIES &/OR GIRLS WEAR.	Fiona Clothes Horse, 39 Warringah Mall Shopping Centre, Brookvale.2100	17186	1986	Premise Match	0m	South East
	FOOTWEAR RETAILERS.	Flints Shoes, 14 Warringah Mall Shopping Centre, Brookvale. 2100	34754	1986	Premise Match	0m	South East
	FRUITERERS &/OR GREENGROCERS.	Four Seasons Mall Fruiterer, 1 Warringah Mall, Brookvale. 2100	35949	1986	Premise Match	0m	South East
	GROCERS-RETAIL.	Franklins, Stores, Brookvale, 83 Warringah Mall Shopping Centre, Brookvale. 2100	40800	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-LADIES &/OR GIRLS WEAR.	General Pants Co., 87 Warringah Mall Shopping Centre, Brookvale.2100	17229	1986	Premise Match	0m	South East
	CHINA CROCKERY, CRYSTAL, CUTLERY, EARTHENWARE, GLASSWARE DEALERS.	Glass House, The, 104 Warringah Mall Shopping Centre, Brookvale. 2100	15106	1986	Premise Match	0m	South East
	GIFT SHOPS.	Goldmark Jewellers Pty. Ltd. The, 65 Warringah Mall, Brookvale. 2100	39097	1986	Premise Match	0m	South East
	JEWELLERS &/OR WATCHMAKERS-RETAIL.	Goldmark Jewellers Pty. Ltd. The, 65 Warringah Mall, Brookvale. 2100	49740	1986	Premise Match	0m	South East
	TAKE-AWAY FOODS.	Gourmette, the, 6 Warringah Mall Shopping Centre, Brookvale. 2100.	90923	1986	Premise Match	0m	South East
	DEPARTMENTAL STORES.	Grace Bros. Pty. Ltd., Warringah Mall Shopping Centre, Brookvale. 2100	23680	1986	Premise Match	0m	South East
	TRAVEL AGENCIES &/OR BOOKING OFFICES.	Grace Bros. Travel, Warringah Mall Shopping Centre, Brookvale. 2100.	95347	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-LADIES &/OR GIRLS WEAR.	Growing Concern, The, 66 Warringah Mall, Brookvale.2100	17259	1986	Premise Match	0m	South East
	HANDBAG &/OR GLOVE SPECIALISTS.	Handbag International, 63 Warringah Mall Shopping Centre, Brookvale. 2100	44300	1986	Premise Match	0m	South East
	TRAVEL GOODS - RETAIL.	Handbag International, 63 Warringah Mall Shopping Centre, Brookvale. 2100	95815	1986	Premise Match	0m	South East
	HAIRDRESSERS-LADIES &/OR BEAUTY SALONS.	Harium, The, 110 Warringah Mall Shopping Centre, Brookvale. 2100	42335	1986	Premise Match	0m	South East
	HAIRDRESSERS-MENS.	Harium, The, 110 Warringah Mall Shopping Centre, Brookvale. 2100	43770	1986	Premise Match	0m	South East
	FURNITURE &/OR FURNISHINGS-RETAIL.	Homecraft, 18 Warringah Mall, Brookvale 2100	37215	1986	Premise Match	0m	South East
	ELECTRICAL SUPPLIES &/OR APPLIANCES-RETAIL.	Homecraft, 18 Warringah Mall, Brookvale. 2100	27450	1986	Premise Match	0m	South East
	TOY DEALERS - RETAIL.	Jolly Frog Hobby & Toyland, 88 Warringah Mall Shopping Centre, Brookvale. 2100	94438	1986	Premise Match	0m	South East
	CLOTHING MFRS. &/OR W/SALERS.-SPORTSWEAR.	Jones, Fletcher Staff, 9 Warringah Mall, Brookvale. 2100	16344	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-MENS &/OR BOYS WEAR.	Jones. Fletcher Staff, 9 Warringah Mall, Brookvale. 2100	18472	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-LADIES &/OR GIRLS WEAR.	Katies Ltd., 36 Warringah Mall, Brookvale. 2100	17441	1986	Premise Match	0m	South East
	KITCHENWARE &/OR HOLLOWARE MFRS. &/OR DIST.	Kitchen Collection, K62 Warringah Mall Shopping Centre, Brookvale. 2100	50582	1986	Premise Match	0m	South East
	GIFT SHOPS.	Lee Rocks, 60 Warringah Mall Shopping Centre, Brookvale. 2100	39234	1986	Premise Match	0m	South East

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4	JEWELLERS &/OR WATCHMAKERS-RETAIL.	Lee Rocks, 60 Warringah Mall Shopping Centre, Brookvale. 2100	49815	1986	Premise Match	0m	South East
	CLOTHING MFRS. &/OR W/SALERS.-SPORTSWEAR.	Makaha Surfwear, P.O.Box W257, Warringah Mall 2100	16362	1986	Premise Match	0m	South East
	CAKE SHOPS &/OR PASTRYCOOKS.	Mall Bakery, The, 3 Warringah Mall, Brookvale. 2100	11789	1986	Premise Match	0m	South East
	BOOKSELLERS-RETAIL.	Mall Bookshop, 54 Warringah Mall Shopping Centre, Brookvale. 2100	7101	1986	Premise Match	0m	South East
	PHOTOGRAPHIC EQUIPMENT &/OR SUPPLIES - W/SALERS &/OR DEALERS.	Mall Camera Shop, 67 Warringah Mall Shopping Centre Brookvale. 2100	73316	1986	Premise Match	0m	South East
	CAFES, MILK BARS &/OR SNACK BARS.	Mall Food Buffet, The, 4 Warringah Mall, Brookvale. 2100	11325	1986	Premise Match	0m	South East
	MILK, FRUIT JUICE BARS &/OR CONFECTIONERS.	Mall Food Buffet, The, 4 Warringah Mall, Brookvale. 2100	59240	1986	Premise Match	0m	South East
	SANDWICH &/OR LUNCHEON SHOPS.	Mall Food Buffet, The, 4 Warringah Mall, Brookvale. 2100	84377	1986	Premise Match	0m	South East
	TAKE-AWAY FOODS.	Mall Food Buffet, The, 4 Warringah Mall, Brookvale. 2100.	91305	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-MENS &/OR BOYS WEAR.	Manhattan Mens & Boys Wear Pty. Ltd., 67 Warringah Mall Shopping Centre, Brookvale. 2100	18557	1986	Premise Match	0m	South East
	FURNISHINGS-SOFT-RETAIL.	Mansour, Eugene Pty. Ltd., 93 Warringah Mall Shopping Centre, Brookvale. 2100	36713	1986	Premise Match	0m	South East
	HAIRDRESSERS-LADIES &/OR BEAUTY SALONS.	Marcell Warringah Salon, 38 Warringah Mall, Brookvale. 2100	42719	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-LADIES &/OR GIRLS WEAR.	Marshmallow, 42 Warringah Mall, Brookvale. 2100	17540	1986	Premise Match	0m	South East
	OPTOMETRISTS &/OR OPTICIANS.	McClean, J. I. C., 33 Warringah Mall, Brookvale. 2100	70921	1986	Premise Match	0m	South East
	HOSPITAL &/OR MEDICAL BENEFITS FUNDS.	Medibank, Warringah Mall Shopping Centre, Brookvale. 2100	46199	1986	Premise Match	0m	South East
	WALLPAPER MERCHANTS.	Mr. Wallpaper, 52 Warringah Mall Shopping Centre, Brookvale. 2100	98139	1986	Premise Match	0m	South East
	CAFES, MILK BARS &/OR SNACK BARS.	Navigator Inn, The, 105 Warringah Mall Shopping Centre, Brookvale. 2100	11345	1986	Premise Match	0m	South East
	RESTAURANTS.	Navigator Inn, The, 105 Warringah Mall Shopping Centre, Brookvale. 2100	82383	1986	Premise Match	0m	South East
	BOOT &/OR SHOE REPAIRERS.	Northside Shoe Repairs Pty. Ltd., 25 Warringah Mall, Brookvale. 2100	7429	1986	Premise Match	0m	South East
	OPTICAL DISPENSERS.	O.P.S.M., 53 Warringah Mall Shopping Centre, Brookvale. 2100	70693	1986	Premise Match	0m	South East
	DRY CLEANERS & PRESSERS.	P.Jays, Warringah Mall, Brookvale. 2100	25469	1986	Premise Match	0m	South East
	BUTCHERS-RETAIL.	Parsonage Meat Markets, 2 Warringah Mall, Brookvale. 2100	10417	1986	Premise Match	0m	South East
	BUTCHERS-RETAIL.	Peters Butchery, 5 Warringah Mall, Brookvale. 2100	10437	1986	Premise Match	0m	South East
	SANDWICH &/OR LUNCHEON SHOPS.	Pickwicks Coffee Lounge, 50 Warringah Mall Shopping Centre, Brookvale, 2100	84390	1986	Premise Match	0m	South East
	CAFES, MILK BARS &/OR SNACK BARS.	Pickwicks Coffee Lounge, 50 Warringah Mall Shopping Centre, Brookvale. 2100	11365	1986	Premise Match	0m	South East
	RESTAURANTS.	Pizza Hut, Warringah Mall, Brookvale. 2100	82602	1986	Premise Match	0m	South East
	TAKE-AWAY FOODS.	Pizza Hut, Warringah Mall, Brookvale. 2100	91572	1986	Premise Match	0m	South East
	JEWELLERS &/OR WATCHMAKERS-RETAIL.	Prouds, 126 Warringah Mall Shopping Centre, Brookvale. 2100	49918	1986	Premise Match	0m	South East
	CHEMISTS-PHARMACEUTICAL.	Puglisi, R. & M., 125 Warringah Mall Shopping Centre, Brookvale. 2100	14727	1986	Premise Match	0m	South East
	TELEVISION &/OR RADIO HIRERS.	Radio Rentals Pty. Ltd., 86 Warringah Mall Shopping Centre, Brookvale. 2100	92705	1986	Premise Match	0m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
4	CHEMISTS-PHARMACEUTICAL.	Robertson, I., 44 Warringah Mall, Brookvale. 2100	14770	1986	Premise Match	0m	South East
	HAIRDRESSERS-MENS.	Silver, A., 27 Warringah Mall, Brookvale. 2100	44088	1986	Premise Match	0m	South East
	SPORTS GOODS RETAILERS.	Simpsons Action Shop, 103 Warringah Mall Shopping Centre, Brookvale. 2100	87588	1986	Premise Match	0m	South East
	GIFT SHOPS.	Skinny's Hideout, 40 Warringah Mall, Brookvale. 2100	39483	1986	Premise Match	0m	South East
	CHEMISTS-PHARMACEUTICAL.	Soul Pattinson Pharmacy, 20 Warringah Mall Shopping Centre, Brookvale. 2100	14897	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-LADIES &/OR GIRLS WEAR.	Sportsgirl, 89 Warringah Mall Shopping Centre, Brookvale. 2100	17948	1986	Premise Match	0m	South East
	HANDBAG &/OR GLOVE SPECIALISTS.	Strand Bags, 45 Warringah Mall Shopping Centre, Brookvale. 2100	44348	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-SPORTSWEAR.	Surf Dave In Ski (Syd) Pty. Ltd., 32 Warringah Mall, Brookvale. 2100	18851	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-LINGERIE.	Sussan Lingerie & Sportswear, 76 Warringah Mall Shopping Centre, Brookvale. 2100	18257	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-SPORTSWEAR.	Sussan Lingerie & Sportswear, 76 Warringah Mall Shopping Centre. Brookvale. 2100	18854	1986	Premise Match	0m	South East
	DEPARTMENTAL STORES.	Target Brookvale, Warringah Mall, Brookvale. 2100	23708	1986	Premise Match	0m	South East
	TRAVEL AGENCIES &/OR BOOKING OFFICES.	Thomas Cook Travel Service, 107 Warringah Mall Shopping Centre, Brookvale. 2100	95650	1986	Premise Match	0m	South East
	SAILBOARD MFRS. &/OR DIST.	Tradewind Sailboards Australia Pty. Ltd., 3/38 Green St., Brookvale. 2100	84250	1986	Premise Match	0m	South East
	BUILDING SOCIETIES.	United Permanent Building Society Ltd., 114 Warringah Mall Shopping Centre, Brookvale. 2100	9083	1986	Premise Match	0m	South East
	TOBACCONISTS - RETAIL.	Wall, S. & B., 58 Warringah Mall Shopping Centre, Brookvale. 2100	93795	1986	Premise Match	0m	South East
	DRESS FABRIC RETAILERS.	Warringah Fabrics Pty. Ltd., 106 Warringah Mall Shopping Centre, Brookvale. 2100	25108	1986	Premise Match	0m	South East
	FLORISTS-RETAIL.	Warringah Florist & Nursery, 108 Warringah Mall Shopping Centre, Brookvale. 2100	33949	1986	Premise Match	0m	South East
	FRUITERERS &/OR GREENGROCERS.	Warringah Mall Fruit Market, 81 Warringah Mall Shopping Centre, Brookvale. 2100	36464	1986	Premise Match	0m	South East
	HEALTH FOODS-RETAIL.	Warringah Mall Health Foods, 7 The Mall, Brookvale. 2100	45425	1986	Premise Match	0m	South East
	ANIMAL &/OR BIRD DEALERS.	Warringah Mall Pet Supplies, 26 The Mall, Brookvale. 2100	3001	1986	Premise Match	0m	South East
	ANIMAL &/OR BIRD FOOD SUPPLIES.	Warringah Mall Pet Supplies, 26 The Mall, Brookvale. 2100	3067	1986	Premise Match	0m	South East
	SPORTS GOODS RETAILERS	Warringah Mall Sports Centre, 100 Warringah Mall Shopping Centre. Brookvale. 2100	87641	1986	Premise Match	0m	South East
	MARINE ENGINE MFRS. &/OR IMPS. &/OR DIST.	Warringah Mall, Brookvale.	52791	1986	Premise Match	0m	South East
	FOOTWEAR RETAILERS.	Williams The Shoemen Pty Ltd., 90 Warringah Mall Shopping Centre, Brookvale. 2100	35047	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-SPORTSWEAR.	Witchery Pty. Ltd., 73 Warringah Mall Shopping Centre, Brookvale. 2100	18864	1986	Premise Match	0m	South East
	CLOTHING-RETAIL-LADIES &/OR GIRLS WEAR.	Witchery Pty. Ltd., 73 Warringah Mall Shopping Centre, Brookvale. 2100	18160	1986	Premise Match	0m	South East
	GROCERS-RETAIL.	Woolworths Ltd., Warringah Mall, Brookvale. 2100	41262	1986	Premise Match	0m	South East
	TAPE - TEXTILE MFRS. &/OR W/SALERS.	YKK Australia Pty. Limited, 115 Old Pittwater Rd., Brookvale. 2100	92115	1986	Premise Match	0m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
4	CAFES, MILK BARS &/OR SNACK BARS.	Zodiac Coffee Shop, 68 Warringah Mall Shopping Centre, Brookvale. 2100	11455	1986	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES.(D7450)	Alibi, The, 19 Warringah Mall, Brookvale. 2100.	22440	1982	Premise Match	0m	South East
	ARTISTS SUPPLIES - RETAIL (A7530)	All Handcraft Supplies, 101 Warringah Mall, Brookvale. 2100.	3491	1982	Premise Match	0m	South East
	GIFT SHOPS. (G3350)	All Handcraft Supplies, 101 Warringah Mall, Brookvale. 2100.	36049	1982	Premise Match	0m	South East
	ELECTRICAL SUPPLIES &/OR APPLIANCES - RETAIL. (E3840)	Anderson, E., 18 Warringah Mall, Brookvale. 2100.	25670	1982	Premise Match	0m	South East
	FURNITURE &/OR FURNISHINGS-RETAIL. (F7625)	Anderson, E., 18 Warringah Mall, Brookvale. 2100.	34593	1982	Premise Match	0m	South East
	GIFT SHOPS. (G3350)	Angus & Coote Pty. Ltd 56 Warringah Mall, Brookvale. 2100.	36057	1982	Premise Match	0m	South East
	CHINA CROCKERY, CRYSTAL, CUTLERY, EARTHENWARE, GLASSWARE DEALERS. (C4245)	Angus & Coote Pty. Ltd., 56 Warringah Mall, Brookvale. 2100.	15923	1982	Premise Match	0m	South East
	BOOKSELLERS - RETAIL. (B4475)	Angus & Robertson Bookshops, 116 Warringah Mall Shopping Centre. Brookvale. 2100.	7723	1982	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES.(D7450)	Arpel, 89 Warringah Mall Shopping Centre, Brookvale. 2100.	22475	1982	Premise Match	0m	South East
	FURNITURE &/OR FURNISHINGS-RETAIL. (F7625)	Beard Watson, 83 Warringah Mall Shopping Centre, Brookvale.2100.	34608	1982	Premise Match	0m	South East
	MERCERS - MENS &/OR BOYS OUTFITTERS. (M2120)	Bennett, R., 97 Warringah Mall, Brookvale. 2100.	51093	1982	Premise Match	0m	South East
	GIFT SHOPS. (G3350)	Better Bargains, 24 Warringah Mall, Brookvale. 2100.	36102	1982	Premise Match	0m	South East
	TRAVEL GOODS - RETAIL. (T7525)	Better Bargains, 24 Warringah Mall, Brookvale. 2100.	82262	1982	Premise Match	0m	South East
	TOOLMAKERS. (T5575)	Bird, Frank G. & Co. Pty. Ltd, 145 Old Pittwater Rd., Brookvale. 2100.	80772	1982	Premise Match	0m	South East
	LINGERIE &/OR HOSIERY SPECIALISTS. (L5000)	Bra Shop, The, 28 Warringah Mall, Brookvale. 2100.	45407	1982	Premise Match	0m	South East
	CAKE SHOPS &/OR PASTRYCOOKS. (C0465)	Bread Winner, The, 79 Warringah Mall, Brookvale. 2100.	12498	1982	Premise Match	0m	South East
	TAKE-AWAY FOODS. (T0235)	Bruno's, 85 Warringah Mall, Brookvale. 2100.	78197	1982	Premise Match	0m	South East
	RESTAURANTS. (R5180)	Bruno's, 85 Warringah Mall, Brookvale. 2100.	70535	1982	Premise Match	0m	South East
	BUTCHERS - RETAIL. (B8040)	Bushs Hygrade Meats, 82 Warringah Mall, Brookvale. 2100.	10630	1982	Premise Match	0m	South East
	STATIONERS - RETAIL. (S5535)	Card Corner Pty. Ltd., 29 Warringah Mall, Brookvale. 2100.	76388	1982	Premise Match	0m	South East
	RUBBER GOODS MFRS. &/OR DISTS. (R7490)	Clarke Rubber Store, 115 Warringah Mall Shopping Centre, Brookvale, 2100.	72505	1982	Premise Match	0m	South East
	MERCERS - MENS &/OR BOYS OUTFITTERS. (M2120)	Club 30 Mens Wear, 57 Warringah Mall, Brookvale. 2100.	51137	1982	Premise Match	0m	South East
	CAKE SHOPS &/OR PASTRYCOOKS. (C0465)	Colonial Pantry, 6 Warringah Mall Shopping Centre, Brookvale. 2100.	12540	1982	Premise Match	0m	South East
	CONFECTIONERS - RETAIL. (C7290)	Darrel Lee, 17 Warringah Mall Shopping Centre, Brookvale. 2100.	17768	1982	Premise Match	0m	South East
	DEPARTMENTAL STORES. (D1950)	David Jones Ltd., Warringah Mall, Brookvale. 2100.	21109	1982	Premise Match	0m	South East
	MERCHANTS - GENERAL (M2160)	David Jones Ltd., Warringah Mall, Brookvale. 2100.	51557	1982	Premise Match	0m	South East
	CAKE SHOPS &/OR PASTRYCOOKS. (C0465)	Donut Dan, 22 Warringah Mall Shopping Centre, Brookvale. 2100.	12577	1982	Premise Match	0m	South East
	SPORTS GOODS RETAILERS. (S4875)	Dunstall, D., 103 Warringah Mall, Brookvale. 2100.	75441	1982	Premise Match	0m	South East
	BOOKSELLERS - RETAIL. (B4475)	Dymocks, 16 Warringah Mall, Brookvale. 2100.	7827	1982	Premise Match	0m	South East

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4	STATIONERS - RETAIL. (S5535)	Dymocks, 16 Warringah Mall, Brookvale. 2100.	76419	1982	Premise Match	0m	South East
	FOOTWEAR RETAILERS (F5575)	Fays, 77 Warringah Mall. Brookvale. 2100.	32350	1982	Premise Match	0m	South East
	GARDENERS SUPPLIES - RETAIL.(G0750)	Fergusons Florist Shoppe, Warringah Mall, Brookvale. 2100.	35708	1982	Premise Match	0m	South East
	FLORISTS - RETAIL. (F4125)	Fergusons Florist Shoppe, Warringah Mall., Brookvale. 2100.	31451	1982	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES.(D7450)	Fiona Clothes Horse, 39 Warringah Mall Shopping Centre, Brookvale. 2100.	22802	1982	Premise Match	0m	South East
	GROCERS - RETAIL. (G7850)	Franklins Stores, 83 Warringah Mall Shopping Centre, Brookvale. 2100.	37700	1982	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES.(D7450)	General Pants Co., 87 Warringah Mall, Brookvale. 2100.	22844	1982	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Golden Fleece Warringah Mall Service Station, 21 Green St., Brookvale. 2100.	56877	1982	Premise Match	0m	South East
	DEPARTMENTAL STORES. (D1950)	Grace Bros. Pty. Ltd., Warringah Mall Shopping Centre, Brookvale. 2100.	21131	1982	Premise Match	0m	South East
	TRAVEL AGENCIES &/OR BOOKING OFFICES. (T7425)	Grace Bros. Travel, Warringah Mall Shopping Centre, Brookvale. 2100.	81903	1982	Premise Match	0m	South East
	FURNITURE &/OR FURNISHINGS-RETAIL. (F7625)	Hacienda, 102 Warringah Mall, Brookvale. 2100.	34713	1982	Premise Match	0m	South East
	TRAVEL GOODS - RETAIL. (T7525)	Handbag International, 63 Warringah Mall Shopping Centre, Brookvale. 2100.	82274	1982	Premise Match	0m	South East
	HANDBAG &/OR GLOVE SPECIALISTS. (H1270)	Handbag international, 63 Warringah Mall Shopping Centre, Brookvale. 2100.	38932	1982	Premise Match	0m	South East
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS. (B2000)	Harium, The, 110 Warringah Mall, Brookvale. 2100.	5836	1982	Premise Match	0m	South East
	HAIRDRESSERS - GENTS. (H0550)	Harium, The, 110 Warringah Mall, Brookvale. 2100.	38545	1982	Premise Match	0m	South East
	CARPET &/OR FLOOR COVERING RETAILERS &/OR SPECIALISTS.(C1830)	Humes Floor Cover, 69 Warringah Mall Shopping Centre, Brookvale. 2100.	13442	1982	Premise Match	0m	South East
	TOY DEALERS - RETAIL. (T6200)	Joffies Hobby & Toyland, 88 Warringah Mall, Brookvale. 2100.	81114	1982	Premise Match	0m	South East
	CLOTHING - SPORTSWEAR MFRS.&/OR W/SALERS. (C5701)	Jones, Fletcher Staff, 9 Warringah Mall, Brookvale. 2100.	17087	1982	Premise Match	0m	South East
	MERCERS - MENS &/OR BOYS OUTFITTERS. (M2120)	Jones, Fletcher Staff, 9 Warringah Mall, Brookvale. 2100.	51255	1982	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES.(D7450)	Katies Ltd., 36 Warringah Mall, Brookvale. 2100	23029	1982	Premise Match	0m	South East
	DELICATESSENS, (D1250)	Key Deli, 80 Warringah Mall, Brookvale. 2100.	19512	1982	Premise Match	0m	South East
	KITCHENWARE &/OR HOLLOWARE MFRS. &/OR DIST. (K0550)	Kitchen Collection, K62 Warringah Mall Shopping Centre, Brookvale. 2100.	44310	1982	Premise Match	0m	South East
	GIFT SHOPS. (G3350)	Lee Rocks, 60 Warringah Mall Shopping Centre, Brookvale. 2100.	36385	1982	Premise Match	0m	South East
	JEWELLERS &/OR WATCHMAKERS RETAIL. (J0550)	Lee Rocks, 60 Warringah Mall Shopping Centre, Brookvale. 2100.	43644	1982	Premise Match	0m	South East
	BABY &/OR CHILDRENS WEAR -RETAIL. (B0080)	Little World Pty. Ltd., 75 Warringah Mall, Brookvale. 2100.	4381	1982	Premise Match	0m	South East
	FRUITERERS &/OR GREENGROCERS. (F6775)	Lo Blanco Pty. Ltd., Mall Fruiterer, 1 Warringah Mall, Brookvale.2100.	33691	1982	Premise Match	0m	South East
	CAKE SHOPS &/OR PASTRYCOOKS. (C0465)	Mall Bakery, The, 3 Warringah Mall, Brookvale. 2100.	12707	1982	Premise Match	0m	South East
	BOOKSELLERS - RETAIL. (B4475)	Mall Bookshop, 54 Warringah Mall Shopping Centre, Brookvale. 2100.	7918	1982	Premise Match	0m	South East
	CAFES, TEA ROOMS &/OR COFFEELOUNGES. (C0345)	Mall Food Buffet, The, 4 Warringah Mall, Brookvale. 2100.	12288	1982	Premise Match	0m	South East

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4	MILK, FRUIT JUICE BARS &/OR CONFECTIONERS, (M3180)	Mall Food Buffet, The, 4 Warringah Mall, Brookvale. 2100.	52302	1982	Premise Match	0m	South East
	SANDWICH &/OR LUNCHEONSHOPS. (S0600)	Mall Food Buffet, The, 4 Warringah Mall, Brookvale. 2100.	72990	1982	Premise Match	0m	South East
	TAKE-AWAY FOODS. (T0235)	Mall Food Buffet, The, 4 Warringah Mall, Brookvale. 2100.	78651	1982	Premise Match	0m	South East
	MERCERS - MENS &/OR BOYS OUTFITTERS. (M2120)	Manhattan Mens & Boys Wear Pty. Ltd., 67 Warringah Mall, Brookvale. 2100.	51319	1982	Premise Match	0m	South East
	FURNISHINGS - SOFT - RETAIL(F7250)	Mansour, Eugene Pty. Ltd., 93 Warringah Mall, Brookvale. 2100.	34306	1982	Premise Match	0m	South East
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS. (B2000)	Marcell Warringah Salon, 38 Warringah Mall, Brookvale. 2100.	6153	1982	Premise Match	0m	South East
	OPTOMETRISTS &/OR OPTICIANS.(O3600)	McClean. J. I. C., 33 Warringah Mall, Brookvale. 2100.	61877	1982	Premise Match	0m	South East
	HOSPITAL &/OR MEDICAL BENEFITS FUNDS. (H6100)	Medibank, Warringah Mall Shopping Centre, Brookvale. 2100.	40336	1982	Premise Match	0m	South East
	DRY CLEANERS & PRESSERS.(D8500)	Morrisons Dry Cleaners, 8 Warringah Mall, Brookvale. 2100.	23981	1982	Premise Match	0m	South East
	PHOTOGRAPHIC SUPPLIES. (P3940)	Moss Photographies, 67 Warringah Mall, Brookvale. 2100.	63878	1982	Premise Match	0m	South East
	WALLPAPER MERCHANTS. (W0600)	Mr. Wallpaper, 52 Warringah Mall Shopping Centre, Brookvale. 2100.	83693	1982	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES.(D7450)	Ms. Boutique, 42 Warringah Mall, Brookvale. 2100.	23205	1982	Premise Match	0m	South East
	CAFES, TEA ROOMS &/OR COFFEELOUNGES. (C0345)	Navigator Inn, The, 105 Warringah Mall, Brookvale. 2100.	12312	1982	Premise Match	0m	South East
	RESTAURANTS. (R5180)	Navigator Inn, The, 105 Warringah Mall, Brookvale. 2100.	71410	1982	Premise Match	0m	South East
	DEPARTMENTAL STORES. (D1950)	Nock & Kirby Ltd., 84 Warringah Shopping Centre, Brookvale. 2100.	21152	1982	Premise Match	0m	South East
	BOOT&/OR SHOE REPAIRERS.(B4760)	Northside Shoe Repairs Pty. Ltd., 25 Warringah Mall, Brookvale. 2100.	8227	1982	Premise Match	0m	South East
	OPTICAL DISPENSERS (O3190)	O.P.S.M., 53 Warringah Mall Shopping Centre, Brookvale. 2100.	61729	1982	Premise Match	0m	South East
	BUTCHERS - RETAIL. (B8040)	Parsonage Meat Markets, 2 Warringah Mall, Brookvale 2100.	11380	1982	Premise Match	0m	South East
	BUTCHERS - RETAIL. (B8040)	Peters Butchery, 5 Warringah Mall, Brookvale. 2100.	11405	1982	Premise Match	0m	South East
	CAFES, TEA ROOMS &/OR COFFEELOUNGES. (C0345)	Pickwicks Coffee Lounge, 50 Warringah Mall Shopping Centre, Brookvale. 2100.	12337	1982	Premise Match	0m	South East
	SANDWICH &/OR LUNCHEONSHOPS. (S0600)	Pickwicks Coffee Lounge, 50 Warringah Mall Shopping Centre, Brookvale. 2100.	73009	1982	Premise Match	0m	South East
	TAKE-AWAY FOODS. (T0235)	Pizza Hut, Warringah Mall, Brookvale. 2100	78824	1982	Premise Match	0m	South East
	RESTAURANTS. (R5180)	Pizza Hut, Warringah Mall, Brookvale. 2100.	71568	1982	Premise Match	0m	South East
	TELEVISION &/OR RADIO HIRERS.(T2080)	Radio Rentals Pty. Ltd., 86 Warringah Mall, Brookvale. 2100.	79493	1982	Premise Match	0m	South East
	CHEMISTS - PHARMACEUTICAL.(C4110)	Robertson, I., 44 Warringah Mall, Brookvale. 2100.	15580	1982	Premise Match	0m	South East
	HAIRDRESSERS - GENTS. (H0550)	Silver, A., 27 Warringah Mall, Brookvale. 2100.	38747	1982	Premise Match	0m	South East
	GIFT SHOPS. (G3350)	Skinny's Hideout, 40 Warringah Mall, Brookvale. 2100.	36553	1982	Premise Match	0m	South East
	CHEMISTS - PHARMACEUTICAL.(C4110)	Soul Pattinson Pharmacy, 20 Warringah Mall Shopping Centre, Brookvale. 2100.	15693	1982	Premise Match	0m	South East
	HANDBAG &/OR SUITCASE MFRS. SUPPLIES. (H1250)	Strand Bags, 45 Warringah Mall Shopping Centre, Brookvale. 2100.	38898	1982	Premise Match	0m	South East
	SPORTSWEAR RETAILERS. (S4905)	Surf Dive In Ski (Syd.) Pty. Ltd., 32 Warringah Mall, Brookvale. 2100.	75740	1982	Premise Match	0m	South East



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4	LINGERIE &/OR HOSIERY SPECIALISTS. (L5000)	Sussan Lingerie & Sportswear, 76 Warringah Mall, Brookvale. 2100.	45481	1982	Premise Match	0m	South East
	SPORTSWEAR RETAILERS. (S4905)	Sussan Lingerie & Sportswear, 76 Warringah Mall, Brookvale. 2100.	75757	1982	Premise Match	0m	South East
	FOOTWEAR RETAILERS (F5575)	Thompsons Shoes, 14 Warringah Mall Shopping Centre, Brookvale. 2100.	32619	1982	Premise Match	0m	South East
	GIFT SHOPS. (G3350)	Town Jewellers Pty. Ltd. The, 65 Warringah Mall, Brookvale. 2100.	36601	1982	Premise Match	0m	South East
	JEWELLERS &/OR WATCHMAKERS RETAIL. (J0550)	Town Jewellers Pty. Ltd. The, 65 Warringah Mall, Brookvale. 2100.	43806	1982	Premise Match	0m	South East
	BUILDING SOCIETIES. (B7460)	United Permanent Building Society Ltd., 114 Warringah Mall Shopping Centre, Brookvale 2100.	10119	1982	Premise Match	0m	South East
	TOBACCONISTS - RETAIL. (T5150)	Wall, S. & B., 58 Warringah Mall Shopping Centre, Brookvale. 2100.	80545	1982	Premise Match	0m	South East
	DRESS FABRIC RETAILERS. (D7150)	Warringah Fabrics Pty. Ltd., 106 Warringah Mall, Brookvale. 2100.	22422	1982	Premise Match	0m	South East
	FLORISTS - RETAIL. (F4125)	Warringah Florist & Nursery, 108 Warringah Mall Shopping Centre, Brookvale. 2100.	31641	1982	Premise Match	0m	South East
	TRAVEL AGENCIES &/OR BOOKING OFFICES. (T7425)	Warringah International Travel Service, 107 Warringah Mall, Brookvale. 2100.	82237	1982	Premise Match	0m	South East
	FRUITERERS &/OR GREENGROCERS. (F6775)	Warringah Mall Fruit Market, 81 Warringah Mall, Brookvale. 2100.	34073	1982	Premise Match	0m	South East
	CHINA CROCKERY, CRYSTAL, CUTLERY, EARTHENWARE, GLASSWARE DEALERS. (C4245)	Warringah Mall Glass, 104 Warringah Mall, Brookvale. 2100.	15950	1982	Premise Match	0m	South East
	GLASS MERCHANTS &/OR GLAZIERS. (G4250)	Warringah Mall Glass, 104 Warringah Mall, Brookvale. 2100.	36874	1982	Premise Match	0m	South East
	MIRROR MFRS. &/OR DIST. (M4000)	Warringah Mall Glass, 104 Warringah Mall, Brookvale. 2100.	52831	1982	Premise Match	0m	South East
	HEALTH FOODS - RETAIL. (H3000)	Warringah Mall Health Foods, 7 The Mall, Brookvale. 2100.	39810	1982	Premise Match	0m	South East
	ANIMAL &/OR BIRD DEALERS. (A5850)	Warringah Mall Pet Supplies, 26 The Mall, Brookvale. 2100.	2693	1982	Premise Match	0m	South East
	ANIMAL &/OR BIRD FOOD SUPPLIES. (A5880)	Warringah Mall Pet Supplies, 26 The Mall, Brookvale. 2100.	2787	1982	Premise Match	0m	South East
	SPORTS GOODS RETAILERS. (S4875)	Warringah Mall Sports Centre, 100 Warringah Mall, Brookvale. 2100.	75599	1982	Premise Match	0m	South East
	FOOTWEAR RETAILERS (F5575)	Williams The Shoemen Pty. Ltd., 90 Warringah Mall, Brookvale. 2100.	32678	1982	Premise Match	0m	South East
	MOTOR PAINTERS SUPPLIES. (M7320)	Williamson, Croft Pty. Ltd., 463 Pittwater Rd., Brookvale. 2100.	58021	1982	Premise Match	0m	South East
	MOTOR PANEL BEATERS SUPPLIES. (M7400)	Williamson, Croft Pty. Ltd., 463 Pittwater Rd., Brookvale. 2100.	58870	1982	Premise Match	0m	South East
	PAINTERS SUPPLIES &/OR REQUISITES. (P0960)	Williamson, Croft Pty. Ltd., 463 Pittwater Rd., Brookvale. 2100.	62755	1982	Premise Match	0m	South East
	WALLPAPER MERCHANTS. (W0600)	Williamson, Croft Pty. Ltd., 463 Pittwater Rd., Brookvale. 2100.	83723	1982	Premise Match	0m	South East
	MUSICAL INSTRUMENT DEALERS. (M9020)	Winton Music Centre, 43 Warringah Mall, Brookvale. 2100.	60236	1982	Premise Match	0m	South East
	RECORD BARS. (R2835)	Winton Music Centre, 43 Warringah Mall, Brookvale. 2100.	70040	1982	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES. (D7450)	Witchery Pty. Ltd., 73 Warringah Mall, Brookvale. 2100.	23642	1982	Premise Match	0m	South East
	SPORTSWEAR RETAILERS. (S4905)	Witchery Pty. Ltd., 73 Warringah Mall, Brookvale. 2100.	75768	1982	Premise Match	0m	South East
	GROCERS - RETAIL. (G7850)	Woolworths Ltd., Warringah Mall, Brookvale. 2100.	38165	1982	Premise Match	0m	South East
	CAFES, TEA ROOMS &/OR COFFEE LOUNGES. (C0345)	Zodiac Coffee Shop, 68 Warringah Mall, Brookvale. 2100.	12430	1982	Premise Match	0m	South East
	GIFT SHOPS.	Abode Homeware, 32 Warringah Mall, Brookvale. 2100	32725	1978	Premise Match	0m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
4	ARTISTS SUPPLIES-RETAIL.	All Handcraft Supplies. 101 Warringah Mall, Brookvale. 2100	3320	1978	Premise Match	0m	South East
	ELECTRICAL SUPPLIES &/OR APPLIANCES-RETAIL.	Anderson, E., 18 Warringah Mall, Brookvale. 2100	22700	1978	Premise Match	0m	South East
	FURNITURE &/OR FURNISHINGS-RETAIL.	Anderson, E., 18 Warringah Mall, Brookvale. 2100	31436	1978	Premise Match	0m	South East
	CHINA CROCKERY, CRYSTAL, CUTLERY, EARTHENWARE, GLASSWARE DEALERS.	Angus & Coote Pty. Ltd., Warringah Mall, Brookvale. 2100	14058	1978	Premise Match	0m	South East
	GIFT SHOPS.	Angus & Coote Pty. Ltd., Warringah Mall, Brookvale. 2100	32734	1978	Premise Match	0m	South East
	TRAVEL GOODS-RETAILERS.	Better Bargains, 24 Warringah Mall, Brookvale. 2100	72553	1978	Premise Match	0m	South East
	GIFT SHOPS.	Better Bargains, 24 Warringah Mall, Brookvale. 2100	32756	1978	Premise Match	0m	South East
	TOOLMAKERS.	Bird, Frank G. & Co. Pty. Ltd, 145 Old Pittwater Rd, Brookvale.2100	71327	1978	Premise Match	0m	South East
	STATIONERS-RETAIL.	Card Corner Pty. Ltd., 29 Warringah Mall, Brookvale. 2100	67630	1978	Premise Match	0m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS	Cassons Dry Cleaners, 8 Warringah Mall, Brookvale. 2100	20729	1978	Premise Match	0m	South East
	MERCERS-MENS &/OR BOYS OUTFITTERS.	Club 30 Mens Wear, 57 Warringah Mall, Brookvale. 2100	44872	1978	Premise Match	0m	South East
	DEPARTMENTAL STORES.	David Jones Ltd., Warringah Mall, Brookvale. 2100	18649	1978	Premise Match	0m	South East
	GENERAL MERCHANTS.	David Jones Ltd., Warringah Mall, Brookvale. 2100	32673	1978	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES.	Davids World of Fashion Pty. Ltd., Warringah Mall, Brookvale. 2100	20020	1978	Premise Match	0m	South East
	BOOKSELLERS RETAIL.	Dymocks, Warringah Mall, Brookvale. 2100	6821	1978	Premise Match	0m	South East
	STATIONERS-RETAIL.	Dymocks, Warringah Mall, Brookvale. 2100	67668	1978	Premise Match	0m	South East
	FLORISTS-RETAIL.	Fergusons Florist Shoppe, Warringah Mall, Brookvale. 2100	28488	1978	Premise Match	0m	South East
	NURSERYMEN.	Fergusons Garden Centres Pty Ltd, Warringah Mall, Brookvale 2100	54417	1978	Premise Match	0m	South East
	GARDENERS SUPPLIES-RETAIL.	Fergusons Garden Centres Pty. Ltd., Warringah Mall, Brookvale. 2100	32399	1978	Premise Match	0m	South East
	DELICATESSENS.	Garabedian, A., Warringah Mall, Brookvale. 2100	17423	1978	Premise Match	0m	South East
	OPTIMETRISTS-REGISTERED.	Gibb & Beeman 33 Warringah Mall Brookvale 2100	54971	1978	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Warringah Mall, Warringah Mall, Brookvale. 2100	50177	1978	Premise Match	0m	South East
	MOTOR CAR WASH INSTALLATIONS.	Golden Fleece Warringah Mall, Warringah Mall. Brookvale. 2100	48636	1978	Premise Match	0m	South East
	SPORTSWEAR RETAILERS.	Jean Junction, Warringah Mall, Brookvale. 2100	67012	1978	Premise Match	0m	South East
	CLOTHING - SPORTSWEAR MFRS. &/OR W/SALERS.	Jones Fletcher Staff. Warringah Mall, Brookvale. 2100	15391	1978	Premise Match	0m	South East
	MERCERS-MENS &/OR BOYS OUTFITTERS.	Jones, Fletcher Staff, Warringah Mall, Brookvale. 2100	44984	1978	Premise Match	0m	South East
	FRUITERERS &/OR GREENGROCERS.	Lo Blanco Pty. Ltd., Mall Fruiterer, 1 Warringah Mall, Brookvale. 2100	30585	1978	Premise Match	0m	South East
	MILK, FRUIT JUICE BARS &/OR CONFECTIONERS.	Mall Food Buffet, The, 4 Warringah Mall, Brookvale. 2100	46025	1978	Premise Match	0m	South East
	CAFES, TEA ROOMS &/OR COFFEE LOUNGES.	Mall Food Buffet, The. 4 Warringah Mall, Brookvale. 2100	10532	1978	Premise Match	0m	South East
	SANDWICH &/OR LUNCHEON SHOPS.	Mall Food Buffet. The. 4 Warringah Mall, Brookvale. 2100	64526	1978	Premise Match	0m	South East
	TAKE-AWAY FOODS.	Mall Food Buffet., The, 4 Warringah Mall, Brookvale. 2100	69430	1978	Premise Match	0m	South East
	MUSICAL INSTRUMENT DEALERS.	Mall Music Centre, Warringah Mall Brookvale 2100	53656	1978	Premise Match	0m	South East

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4	MUSIC SHEET &/OR RECORDS DEALERS.	Mall Music Centre, Warringah Mall, Brookvale 2100	53535	1978	Premise Match	0m	South East
	FURNISHINGS-SOFT RETAIL	Mansour, Eugene Pty. Ltd., Warringah Mall, Brookvale. 2100	31151	1978	Premise Match	0m	South East
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Marcell Warringah Salon, 38 Warringah Mall, Brookvale. 2100	5306	1978	Premise Match	0m	South East
	TOY DEALERS-RETAIL.	Michaels Toys & Gifts Pty. Ltd, 910b Warringah Mall, Brookvale.2100	71671	1978	Premise Match	0m	South East
	RESTAURANTS.	Navigator Inn, The, 105 Warringah Mall, Brookvale. 2100	63230	1978	Premise Match	0m	South East
	DRESS FABRIC RETAILERS.	Northside Fabrics, Warringah Mall, Brookvale. 2100	19840	1978	Premise Match	0m	South East
	BOOT &/OR SHOE REPAIRERS.	Northside Shoe Repairs Pty. Ltd., 25 Warringah Mall, Brookvale. 2100	7144	1978	Premise Match	0m	South East
	RESTAURANTS.	Pizza Hut, Warringah Mall, Brookvale. 2100	63307	1978	Premise Match	0m	South East
	TAKE-AWAY FOODS.	Pizza Hut, Warringah Mall, Brookvale. 2100	69486	1978	Premise Match	0m	South East
	CHEMISTS-PHARMACEUTICAL.	Robertson. I., 44 Warringah Mall. Brookvale. 2100	13757	1978	Premise Match	0m	South East
	MERCERS-MENS &/OR BOYS OUTFITTERS.	Satchells Mens & Boys Wear Pty. Ltd., Warringah Mall, Brookvale. 2100	45131	1978	Premise Match	0m	South East
	SPORTSWEAR RETAILERS.	Surf Dive In Ski (Syd.) Pty, Ltd., Warringah Mall, Brookvale. 2100	67077	1978	Premise Match	0m	South East
	JEWELLERS &/OR WATCHMAKERS-RETAIL.	Town Jewellers Pty. Ltd., The, Warringah Mall, Brookvale. 2100	39024	1978	Premise Match	0m	South East
	GIFT SHOPS.	Town Jewellers Pty. Ltd., The, Warringah Mall. Brookvale. 2100	32979	1978	Premise Match	0m	South East
	HEALTH FOODS-RETAIL.	Warringah Mall Health Foods, 7 The Mall, Brookvale. 2100	35427	1978	Premise Match	0m	South East
	ANIMAL &/OR BIRD DEALERS.	Warringah Mall Pet Supplies, 26 The Mall, Brookvale. 2100	2504	1978	Premise Match	0m	South East
	ANIMAL &/OR BIRD FOOD SUPPLIES.	Warringah Mall Pet Supplies, 26 The Mall, Brookvale. 2100	2584	1978	Premise Match	0m	South East
	SHIP CHANDLERS.	Whitworth Nautical World Pty. Ltd., 109 Old Pittwater Rd., Brookvale. 2100	65976	1978	Premise Match	0m	South East
	BOAT, LAUNCH &/OR YACHT ACCESSORIES MFRS. &/OR DIST.	Whitworths Nautical World Pty. Ltd., 109 Old Pittwater Rd., Brookvale. 2100	6138	1978	Premise Match	0m	South East
	BOAT, LAUNCH &/OR YACHT RIGGING SPECIALISTS.	Whitworths Nautical World Pty. Ltd., 109 Old Pittwater Rd., Brookvale. 2100	6326	1978	Premise Match	0m	South East
	MOTOR PAINTERS SUPPLIES.	Williamson, Croft Pty. Ltd., 463 Pittwater Rd., Brookvale. 2100	51783	1978	Premise Match	0m	South East
	MOTOR PANEL BEATERS SUPPLIES.	Williamson, Croft Pty. Ltd., 463 Pittwater Rd., Brookvale. 2100	52493	1978	Premise Match	0m	South East
	WALLPAPER MERCHANTS.	Williamson, Croft Pty. Ltd., 463 Pittwater Rd., Brookvale.2100	73789	1978	Premise Match	0m	South East
	PAINTERS SUPPLIES &/OR REQUISITES.	Williamson. Croft Pty. Ltd., 463 Pittwater Rd., Brookvale. 2100	55847	1978	Premise Match	0m	South East
	GROCERS-RETAIL	Woolworths, Warringah Mall, Brookvale. 2100	34304	1978	Premise Match	0m	South East
	BAKERS-BREAD.	Abbco Breads, Warringah Mall, Brookvale. 2100.	4060	1975	Premise Match	0m	South East
	FOOTWEAR RETAILERS.	Adrians Shoes, Warringah Mall, Brookvale. 2100.	33855	1975	Premise Match	0m	South East
	ELECTRICAL SUPPLIES &/OR APPLIANCES-RETAIL	Anderson, E., Warringah Mall, Brookvale. 2100	26210	1975	Premise Match	0m	South East
	FURNITURE &/OR FURNISHINGS- RETAIL	Anderson, E., Warringah Mall, Brookvale. 2100	36547	1975	Premise Match	0m	South East
	DELICATESSENS.	Andres Delicatessen, 6 Warringah Mall, Brookvale. 2100	19911	1975	Premise Match	0m	South East
	GIFT SHOPS.	Angus & Coot Pty. Ltd., Warringah Mall., Brookvale. 2100.	37963	1975	Premise Match	0m	South East

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4	CHINA CROCKERY, CRYSTAL, CUTLERY, EARTHENWARE, GLASSWARE DEALERS.	Angus & Coote Pty. Ltd., Warringah Mall, Brookvale. 2100	16148	1975	Premise Match	0m	South East
	STEREOPHONIC EQUIP MFRS &/OR DIST.	Audio Gallery, Warringah Mall, Brookvale. 2100	80892	1975	Premise Match	0m	South East
	BABY &/OR CHILDRENS WEAR- RETAIL	Babies Littleworld Teens, Warringah Mall, Brookvale. 2100.	3755	1975	Premise Match	0m	South East
	MERCERS-MENS &/OR BOYS OUTFITTERS.	Bennett. R., Mercers., Warringah Mall., Brookvale. 2100	52035	1975	Premise Match	0m	South East
	TRAVEL GOODS., RETAILERS.	Better Bargains, 24 Warringah Mall, Brookvale. 2100	85197	1975	Premise Match	0m	South East
	GIFT SHOPS.	Better Bargains., 24 Warringah Mall., Brookvale. 2100.	38004	1975	Premise Match	0m	South East
	TOOLMAKERS	Bird. Frank G. & Co. Pty. Ltd., 145 Old Pittwater Rd., Brookvale. 2100	83922	1975	Premise Match	0m	South East
	BUTCHERS-RETAIL	Bush's Hygrade Meats, Warringah Mall, Brookvale. 2100.	10118	1975	Premise Match	0m	South East
	SPORTSWEAR RETAILERS	Casual Girl., Warringah Mall., Brookvale. 2100	79209	1975	Premise Match	0m	South East
	SPORTSWEAR RETAILERS	Cheapa Shop Jeans., The, Warringah Mall., Brookvale. 2100	79212	1975	Premise Match	0m	South East
	CHINA CROCKERY, CRYSTAL, CUTLERY, EARTHENWARE, GLASSWARE DEALERS.	China Corner, The, Warringah Mall, Brookvale. 2100	16157	1975	Premise Match	0m	South East
	MERCERS-MENS &/OR BOYS OUTFITTERS.	Club 30 Mens Wear., 30 Warringah Mall, Brookvale. 2100	52079	1975	Premise Match	0m	South East
	LAUNDRIES &/OR LAUNDRETES.	Community Wash Pty. Ltd., Warringah Mall. Brookvale. 2100	46924	1975	Premise Match	0m	South East
	DEPARTMENTAL STORES.	David Jones Ltd., Warringah Mall, Brookvale. 2100	21534	1975	Premise Match	0m	South East
	STATIONERS-RETAIL	Dymocks, Warringah Mall, Brookvale. 2100	79945	1975	Premise Match	0m	South East
	BOOKSELLERS RETAIL	Dymocks, Warringah Mall. Brookvale. 2100.	7318	1975	Premise Match	0m	South East
	DRESS FABRIC RETAILERS.	Fairline Fabrics, Warringah Mall, Brookvale. 2100	22827	1975	Premise Match	0m	South East
	GARDENERS SUPPLIES-RETAIL	Faruaona Garden Centres Pty. Ltd., Warringah Mall., Brookvale. 2100	37626	1975	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES.	Fashion Flair, 19 Warringah Mall, Brookvale. 2100	23168	1975	Premise Match	0m	South East
	FOOTWEAR RETAILERS.	Fays, Warringah Mall, Brookvale. 2100	33960	1975	Premise Match	0m	South East
	FLORISTS-RETAIL	Fergusons Florist Shoppe, Warringah Mall, Brookvale. 2100.	33034	1975	Premise Match	0m	South East
	GARDENERS SUPPLIES-RETAIL	Fergusons Garden Centre Pty. Ltd., Warringah Mall., Brookvale. 2100	37624	1975	Premise Match	0m	South East
	NURSERYMEN	Fergusons Garden Centre Pty. Ltd., Warringah Mall., Brookvale. 2100	64208	1975	Premise Match	0m	South East
	NURSERYMEN	Fergusons Garden Centres Pty. Ltd., Warringah Mall., Brookvale. 2100	64210	1975	Premise Match	0m	South East
	MIXED BUSINESSES.	Franklin's Food Store., Warringah Mall., Brookvale. 2100	54867	1975	Premise Match	0m	South East
	OPTOMETRISTS-REGISTERED.	Gibb & Beeman., Warringah Mall., Brookvale. 2100	64859	1975	Premise Match	0m	South East
	CHINA CROCKERY, CRYSTAL, CUTLERY, EARTHENWARE, GLASSWARE DEALERS.	Glass House, The, Warringah Mall, Brookvale. 2100	16168	1975	Premise Match	0m	South East
	GIFT SHOPS.	Glass House, The, Warringah Mall, Brookvale. 2100.	38123	1975	Premise Match	0m	South East
	CAKE SHOPS &/OR PASTRYCOOKS.	Golden Eagle. 3 Warringah Mall, Brookvale. 2100.	12561	1975	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Golden Fleece Service Station., Warringah Mall., Brookvale. 2100	58946	1975	Premise Match	0m	South East
	DEPARTMENTAL STORES.	Grace Bros., Warringah Mall, Brookvale. 2100	21546	1975	Premise Match	0m	South East
	HAIRDRESSERS-GENTS.	Hair, U. M., The, Warringah Mall, Brookvale. 2100	40554	1975	Premise Match	0m	South East

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4	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Hair, U. M., The. Warringah Mall, Brookvale. 2100.	5338	1975	Premise Match	0m	South East
	ARTISTS SUPPLIES-RETAIL	Handcraft Supplies, Warringah Mall. Brookvale. 2100.	3067	1975	Premise Match	0m	South East
	GIFT SHOPS.	Handcraft Supplies., Warringah Mall., Brookvale. 2100.	38139	1975	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES.	Handcrafts of Asia, Warringah Mall, Brookvale. 2100	23218	1975	Premise Match	0m	South East
	GIFT SHOPS.	Handcrafts of Asia., Warringah Mall., Brookvale. 2100.	38141	1975	Premise Match	0m	South East
	TRAVEL AGENCIES &/OR BOOKING OFFICES.	International Travel Service, Warringah Mall, Brookvale. 2100	85056	1975	Premise Match	0m	South East
	ELECTRIC LIGHT FITTINGS (SHADES, BRACKETS, ETC) MFRS. &/OR DIST.	Jeremiahs, Warringah Mall, Brookvale. 2100	88165	1975	Premise Match	0m	South East
	FURNITURE &/OR FURNISHINGS- RETAIL	Jeremiahs, Warringah Mall, Brookvale. 2100	36575	1975	Premise Match	0m	South East
	LEATHER GOODS RETAILERS	Jeremiahs., Warringah Mall., Brookvale. 2100	47312	1975	Premise Match	0m	South East
	GIFT SHOPS.	Jeremiahs., Warringah Mall., Brookvale. 2100.	38168	1975	Premise Match	0m	South East
	CLOTHING-SPORTSWEAR LADIES MFRS.&/OR W/SALERS	Jones, Fletcher Staff, Warringah Mall, Brookvale. 2100	17805	1975	Premise Match	0m	South East
	MERCERS-MENS &/OR BOYS OUTFITTERS.	Jones, Fletcher Staff. Warringah Mall, Brookvale. 2100	52220	1975	Premise Match	0m	South East
	DELICATESSENS	Kay & Deci, Warringah Mall, Brookvale. 2100	20272	1975	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES.	Kerrie, R., Warringah Mall, Brookvale. 2100	23322	1975	Premise Match	0m	South East
	JEWELLERS &/OR WATCHMAKERS-RETAIL	Lee-Rocks Warringah Mall., Brookvale. 2100	45990	1975	Premise Match	0m	South East
	SCREW MFRS. &/OR W/SALERS	Linread Aust. Pty. Ltd., 113 Old Pittwater Rd., Brookvale. 2100	76317	1975	Premise Match	0m	South East
	SCREW MFRS. &/OR W/SALERS	Linread Australia Pty. Ltd., 113 Old Pittwater Rd., Brookvale. 2100	76287	1975	Premise Match	0m	South East
	FRUITERERS &/OR GREENGROCERS.	Lo Blanco, Mail Fruiterer, 1 Warringah Mall, Brookvale. 2100.	35478	1975	Premise Match	0m	South East
	FRUITERERS &/OR GREENGROCERS.	Mad Fruit Palace, Warringah Mall, Brookvale. 2100.	35511	1975	Premise Match	0m	South East
	MILK, FRUIT JUICE BARS &/OR CONFECTIONERS.	Mall Food Buffet (The), 4 Warringah Mall., Brookvale. 2100	53548	1975	Premise Match	0m	South East
	CAFES, TEA ROOMS &/OR COFFEE LOUNGES.	Mall Food Buffet, (The), 4 Warringah Mall, Brookvale. 2100.	12107	1975	Premise Match	0m	South East
	SANDWICH &/OR LUNCHEON SHOPS.	Mall Food Buffet, (The), 4 Warringah Mall., Brookvale. 2100	75389	1975	Premise Match	0m	South East
	MUSICAL INSTRUMENT DEALERS.	Mall Music Centre., Warringah Mall, Brookvale 2100	63226	1975	Premise Match	0m	South East
	MUSIC SHEET &/OR RECORDS DEALERS.	Mall Music Centre., Warringah Mall., Brookvale. 2100	63060	1975	Premise Match	0m	South East
	NEWSAGENTS-GENERAL	Mall Newspaper Kiosk, (The), Warringah Mall., Brookvale. 2100	63679	1975	Premise Match	0m	South East
	CHEMISTS-PHARMACEUTICAL	Mall Pharmacy, 21 Warringah Mall, Brookvale. 2100	15567	1975	Premise Match	0m	South East
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Marcell Warringah Salon, 38 Warringah Mall, Brookvale. 2100.	5619	1975	Premise Match	0m	South East
	TOY DEALERS., RETAIL	Michaels Toys & Hobbies, Warringah Mall., Brookvale. 2100	84330	1975	Premise Match	0m	South East
	BOAT, LAUNCH &/OR YACHT RIGGING SPECIALISTS.	Miller & Whitworth Pty. Ltd., 109 Old Pittwater Rd., Brookvale. 2100.	6762	1975	Premise Match	0m	South East
	SAIL MAKERS.	Miller & Whitworth Pty. Ltd., 109 Old Pittwater Rd., Brookvale. 2100	75175	1975	Premise Match	0m	South East
	SHIP CHANDLERS.	Miller & Whitworth Pty. Ltd., 109 Old Pittwater Rd., Brookvale. 2100	77068	1975	Premise Match	0m	South East
	BOAT, LAUNCH &/OR YACHT ACCESSORIES MFRS. &/OR DIST	Miller & Whitworth Pty. Ltd., 109 Old Pittwater Rd., Brookvale. 2100.	6541	1975	Premise Match	0m	South East

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4	BOAT, LAUNCH &/OR YACHTBUILDERS &/OR REPAIRERS.	Miller & Whitworth Pty. Ltd., 109 Old Pittwater Rd., Brookvale. 2100.	6654	1975	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES.	Moirs, Warringah Mall, Brookvale. 2100	23458	1975	Premise Match	0m	South East
	PHOTOGRAPHIC SUPPLIES.	Moss Photographies., Warringah Mall., Brookvale. 2100	66985	1975	Premise Match	0m	South East
	CAFES, TEA ROOMS &/OR COFFEE LOUNGES.	Navigator Inn, The, Warringah Mall, Brookvale. 2100.	12147	1975	Premise Match	0m	South East
	RESTAURANTS.	Navigator Inn, The., Warringah Mall., Brookvale. 2100	73996	1975	Premise Match	0m	South East
	BOOT &/OR SHOE REPAIRERS.	Northside Shoe Repairs, 23 Warringah Mall, Brookvale. 2100.	7784	1975	Premise Match	0m	South East
	RESTAURANTS.	Pizza Hut, Warringah Mall., Brookvale. 2100	74047	1975	Premise Match	0m	South East
	TAKE-AWAY FOODS.	Pizza Hut. Warringah Mall., Brookvale. 2100	82007	1975	Premise Match	0m	South East
	TELEVISION &/OR RADIO HIRERS.	Radio Rentals, Warringah Mall., Brookvale. 2100	82486	1975	Premise Match	0m	South East
	FURNISHINGS-SOFT RETAIL	Rene. Warringah Mall, Brookvale. 2100	36257	1975	Premise Match	0m	South East
	CHEMISTS-PHARMACEUTICAL	Robertson, I., Warringah Mall, Brookvale. 2100	15838	1975	Premise Match	0m	South East
	ANTIQUE DEALERS.	Romeo & Juliet, 32 Warringah Mall, Brookvale. 2100.	2620	1975	Premise Match	0m	South East
	GIFT SHOPS.	Romeo & Juliet., 32 Warringah Mall., Brookvale. 2100.	38296	1975	Premise Match	0m	South East
	MERCERS-MENS &/OR BOYS OUTFITTERS.	Satchells., Warringah Mall., Brookvale. 2100	52368	1975	Premise Match	0m	South East
	SEWING MACHINE SALES &/OR SERVICE	Singer, Warringah Mall., Brookvale. 2100	76703	1975	Premise Match	0m	South East
	MOTOR CAR WASH INSTALLATIONS.	Squires, W Service Station., Warringah Mall., Brookvale. 2100.	57580	1975	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Squires. W Service Station., Warringah Mall., Brookvale. 2100	59573	1975	Premise Match	0m	South East
	HANDBAG &/OR GLOVE SPECIALISTS.	Strand Bag Shop, Warringah Mall, Brookvale. 2100	41101	1975	Premise Match	0m	South East
	SPORTSWEAR RETAILERS	Surf Dive in Ski., Warringah Mall., Brookvale2100	79296	1975	Premise Match	0m	South East
	LINGERIE &/OR HOSIERY SPECIALISTS	Sussans., Warringah Mall., Brookvale. 2100	47771	1975	Premise Match	0m	South East
	SPORTSWEAR RETAILERS	Sussans., Warringah Mall., Brookvale. 2100	79314	1975	Premise Match	0m	South East
	BUTCHERS-RETAIL	Tancred Meats, Warringah Mall, Brookvale. 2100.	11270	1975	Premise Match	0m	South East
	FOOTWEAR RETAILERS.	Thomsons Shoes. Warringah Mall, Brookvale. 2100.	34171	1975	Premise Match	0m	South East
	GIFT SHOPS.	Town Jewellers, The., Warringah Mall., Brookvale. 2100.	38346	1975	Premise Match	0m	South East
	JEWELLERS &/OR WATCHMAKERS-RETAIL	Town Jewellers. The, Warringah Mall., Brookvale. 2100	46118	1975	Premise Match	0m	South East
	BUTCHERS-RETAIL	Walkers Butchery, 5 Warringah Mall, Brookvale. 2100.	11351	1975	Premise Match	0m	South East
	DRESS FABRIC RETAILERS.	Warringah Fabrics, Warringah Mall. Brookvale. 2100	22917	1975	Premise Match	0m	South East
	GLASS MERCHANTS.	Warringah Mall Glass., Warringah Mall., Brookvale. 2100.	38522	1975	Premise Match	0m	South East
	HEALTH FOODS-RETAIL	Warringah Mall Health Foods, 7 The Mall, Brookvale. 2100	41915	1975	Premise Match	0m	South East
	ANIMAL &/OR BIRD DEALERS.	Warringah Mall Pet Supplies, 26 The Mall, Brookvale. 2100.	2336	1975	Premise Match	0m	South East
	ANIMAL &/OR BIRD FOOD SUPPLIES.	Warringah Mall Pet Supplies, 26 The Mall, Brookvale. 2100.	2463	1975	Premise Match	0m	South East
	SPORTS GOODS RETAILERS.	Warringah Mall Sports Centre., Warringah Mall., Brookvale. 2100	79140	1975	Premise Match	0m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
4	MOTOR PANEL BEATERS SUPPLIES.	Williamson, Croft Pty. Ltd., 463 Pittwater Rd., Brookvale. 2100	61236	1975	Premise Match	0m	South East
	PAINTERS SUPPLIES &/OR REQUISITES.	Williamson, Croft Pty. Ltd., 463 Pittwater Rd., Brookvale 2100	65813	1975	Premise Match	0m	South East
	MOTOR PAINTERS SUPPLIES.	Williamson, Croft Pty. Ltd., 463 Pittwater Rd., Brookvale. 2100	60536	1975	Premise Match	0m	South East
	WALLPAPER MERCHANTS.	Williamson. Croft Pty. Ltd., 463 Pittwater Rd., Brookvale. 2100	86454	1975	Premise Match	0m	South East
	DRESS SHOPS & ACCESSORIES.	Witchers, Warringah Mall, Brookvale. 2100	23743	1975	Premise Match	0m	South East
	SPORTSWEAR RETAILERS	Witchers, Warringah Mall, Brookvale. 2100	79324	1975	Premise Match	0m	South East
	GROCERS-RETAIL	Woolworths, Warringah Mall., Brookvale. 2100	40013	1975	Premise Match	0m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Wyns Dry Cleaning Pty. Ltd., Warringah Mall, Brookvale. 2100	24429	1975	Premise Match	0m	South East
	CAFES, TEA ROOMS &/OR COFFEE LOUNGES.	Zodiac Coffee Shop, Warringah Mall, Brookvale. 2100.	12366	1975	Premise Match	0m	South East
	TRAVEL GOODS RETAILERS (T655)	Better Bargains, 24 Warringah Mall, 463 Pittwater Rd., Brookvale	371236	1970	Premise Match	0m	South East
	TOOL MAKERS (T480)	Bird, Frank G. & Co. Pty. Ltd., 145 Old Pittwater Rd., Brookvale, 2100	369582	1970	Premise Match	0m	South East
	MERCERS-MEN'S & BOYS' OUTFITTERS(M232)	Club 30 Men's Wear., 30 Warringah Mall., Brookvale	328802	1970	Premise Match	0m	South East
	PUBLISHERS (P886)	Dominie Pty. Ltd., 463 Pittwater Rd., Brookvale	353394	1970	Premise Match	0m	South East
	SCHOOL SUPPLIES-MFRS. &/OR DISTRIBUTORS (S131)	Dominie Pty. Ltd., 463 Pittwater Rd., Brookvale	359458	1970	Premise Match	0m	South East
	TOY DEALERS-RETAIL	Dominie Pty. Ltd., 463 Pittwater Rd., Brookvale	370037	1970	Premise Match	0m	South East
	CAKE SHOPS & PASTRYCOOKS (C045)	Do-Nut Dan., 22 Warringah Mall, 463 Pittwater Rd., Brookvale	276478	1970	Premise Match	0m	South East
	DOUGHNUT MANUFACTURERS (D500)	Donut Dan., 22 Warringah Mall, Brookvale	290184	1970	Premise Match	0m	South East
	MOTOR GARAGES & ENGINEERS(M6S6)	Golden Fleece Service Station., Warringah Mall, Pittwater Rd., BROOKVALE	337912	1970	Premise Match	0m	South East
	SCREW MFRS. &/OR DIST. (S173)	Linread Aust. Pty. Ltd., 113 Old Pittwater Rd., Brookvale. 2100	360059	1970	Premise Match	0m	South East
	FRUITERERS/GREENGROCER S (F640)	Lo Blanco, Mall Fruiterer., 1 Warrngah Mall, 463-477 Pittwater Rd., Brookvale	307405	1970	Premise Match	0m	South East
	MILK, FRUIT JUICE BARS/CONFECTIONERS	Mall Miik Bar & Sandwiches., 34 Warringah Mall., 463 Pittwater Rd., Brookvale	330848	1970	Premise Match	0m	South East
	MUSICAL INSTRUMENT DEALERS(M788)	Mall Music Centre (The)., 10 Warringah Mall., Brookvale	343070	1970	Premise Match	0m	South East
	MUSIC SHEET &/OR RECORDS DEALERS	Mall Music Centro (The)., 10 Warringah Mall., Brookvale	343187	1970	Premise Match	0m	South East
	CHEMISTS-PHARMACEUTICAL	Mall Pharmacy., 21 Warringah Mall, 463 Pittwater Rd., Brookvale	280723	1970	Premise Match	0m	South East
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Marcell Warringah Salon., 38-39 Warringah Mall., 463 Pitt water Rd., Brookvale	266269	1970	Premise Match	0m	South East
	PRINTERS-LETTERPRESS (P806)	Martin Press Pty. Ltd., 463 Pittwater Rd., Brookvale	352193	1970	Premise Match	0m	South East
	DRESS SHOPS (D595)	Marwin Fashions, 35-36 Warringah Mall., 463 Pittwater Rd., Brookvale	291527	1970	Premise Match	0m	South East
	CHEMISTS-PHARMACEUTICAL	Robertson, Ian, 43 Warringah Mall, 463 Pittwater Rd., Brookvale	281053	1970	Premise Match	0m	South East
	GIFT SHOPS (G180)	Romeo & Juliet., 32 Warringah Mall	310972	1970	Premise Match	0m	South East
	GIFT SHOPS	Romeo & Juliet., 463 Pittwater Rd., Brookvale	657051	1970	Premise Match	0m	South East
	HAIRDRESSERS (GENT.'S) (H070)	Silver, A., 27a Warringah Mall., Brookvale	314422	1970	Premise Match	0m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
4	CAFES, COFFEE LOUNGES, Etc. (C030)	Stop-Light Coffee Shop., 51 Warringah Mall, 463 Pittwater Rd., Brookvale	276116	1970	Premise Match	0m	South East
	BUTCHERS-RETAIL (B860)	Walkers Mall Butchery., 5 Warringah Mall, 463 Pittwater Rd., Brookvale	274752	1970	Premise Match	0m	South East
	HEALTH FOOD RETAILERS (H350)	Warringah Mall Health Foods., The Mall, 463 Pittwater Rd., Brookvale	316081	1970	Premise Match	0m	South East
	ANIMAL & BIRD DEALERS (A370)	Warringah Mall Pet Supplies, 26 The Mall, 463 Pittwater Rd., Brookvale	261450	1970	Premise Match	0m	South East
	ANIMAL & BIRD FOOD SUPPLIES (A375)	Warringah Mall Pet Supplies, 26 the Mall, 463 Pittwater Rd., Brookvale	261617	1970	Premise Match	0m	South East
	Travel Goods Retailers	Better Bargains, 24 Warringah Mall, 463 Pittwater Rd., Brookvale	154035	1965	Premise Match	0m	South East
	Poultry Dealers - Retail	Chicken Bowl (Roasts), 27 Warringah Mall, 463 Pittwater Rd., Brookvale	135435	1965	Premise Match	0m	South East
	Fish Merchants - Retail	Coral Seafoods, 4 Warringah Mall, 463 Pittwater Rd., Brookvale	86761	1965	Premise Match	0m	South East
	Photographic Equipment Manufacturers &/or Distributors	Distinctive Products Pty. Ltd., 463 Pittwater Rd., Brookvale	132654	1965	Premise Match	0m	South East
	School Supplies - Mfrs. &/or Dist.	Dominie Pty. Ltd., 463 Pittwater Rd., Brookvale	142673	1965	Premise Match	0m	South East
	BOOKSELLERS---RETAIL	Dominie, Pty. Ltd., 463 Pittwater Rd., Brookvale	52756	1965	Premise Match	0m	South East
	Cake Shops & Pastrycooks	Do-Nut Dan., 22 Warringah Mall, 463 Pittwater Rd., Brookvale	61184	1965	Premise Match	0m	South East
	Cake Shops & Pastrycooks	Finch Quality Cakes., 3 Warringah Mall, 463 Pittwater Rd., Brookvale	61222	1965	Premise Match	0m	South East
	Motor Service Stations - Petrol, Oil, Etc.	Golden Fleece Brookvale Service Station, 473 Pittwater Rd. Brookvale	125507	1965	Premise Match	0m	South East
	Motor Garages & Engineers	Golden Fleece Service Station, Warringah Mall, Pittwater Rd. Brookvale	122313	1965	Premise Match	0m	South East
	Motor Spare Parts Dealers - Retail	Golden Fleece Service Station, Warringah Mall, Pittwater Rd., Brookvale	126456	1965	Premise Match	0m	South East
	Fruiterers & Greengrocers	Lo Blanco, Mall Fruiterer., 1 Warringah Mall, 463-477 Pittwater Rd., Brookvale	91594	1965	Premise Match	0m	South East
	Milk, Fruit Juice Bars/Confectioners	Mall Milk Bar & Sandwiches., 34 Warringah Mall	115264	1965	Premise Match	0m	South East
	Chemists - Pharmaceutical	Mall Pharmacy, 21 Warringah Mall, 463 Pittwater Rd., Brookvale	65313	1965	Premise Match	0m	South East
	Beauty Salons &/or Ladies Hairdressers	Marcell Warringah Salon., 38-39 Warringah Mall, 463 Pittwater Rd., Brookvale	50924	1965	Premise Match	0m	South East
	Frock & Coat Salons	Marwin Fashions, 35-36 Warringah Mall, 463 Pittwater Rd., Brookvale	90123	1965	Premise Match	0m	South East
	Cafes, Tea Rooms, Coffee Lounges, Etc.	New Guinea Hut (The), 30 Warringah Mall, 463 Pittwater Rd., Brookvale	60624	1965	Premise Match	0m	South East
	Hobby/Handcrafts Supplies	Parfett's Playtime, 8 Warringah Mall, 463 Pittwater Rd., Brookvale	100335	1965	Premise Match	0m	South East
	SPORTS GOODS RETAILERS	Parfett's Playtime, 8 Warringah Mall, 463 Pittwater Rd., Brookvale	146536	1965	Premise Match	0m	South East
	TOY DEALERS--- RETAIL	Parfett's Playtime, 8 Warringah Mall, 463 Pittwater Rd., Brookvale	153045	1965	Premise Match	0m	South East
	Chemists - Pharmaceutical	Robertson, Ian, 43 Warringah Mall, 463 Pittwater Rd., Brookvale	65556	1965	Premise Match	0m	South East
	Gift Shops	Romeo & Juliet, 32 Warringah Mall, 463 Pittwater Rd., Brookvale	95046	1965	Premise Match	0m	South East
	Antique Dealers	Romeo & Juliet., 32 Warringah Mall, 463 Pittwater Rd., Brookvale	46471	1965	Premise Match	0m	South East
	Cafes, Tea Rooms, Coffee Lounges, Etc.	Stop-Light Coffee Shop., 51 Warringah Mall, 463 Pittwater Rd., Brookvale	60837	1965	Premise Match	0m	South East
	Baby & Children's Wear - Retail	Susan Dean Baby Wear, 14 Warringah Mall, 463 Pittwater Rd., Brookvale	49020	1965	Premise Match	0m	South East



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4	Butchers - Retail	Walkers Mall Butchery, 5 Warringah Mall, 463 Pittwater Rd., Brookvale	59473	1965	Premise Match	0m	South East
	Health Food Retailers	Warringah Mall Health Foods, 7 The Mall, 463 Pittwater Rd., Brookvale	100153	1965	Premise Match	0m	South East
	Animal & Bird Dealers	Warringah Mall Pet Supplies., 26 The Mall, 463 Pittwater Rd., Brookvale	46210	1965	Premise Match	0m	South East
	Animal & Bird Food Supplies	Warringah Mall Pet Supplies., 26 The Mall, 463 Pittwater Rd., Brookvale	46357	1965	Premise Match	0m	South East
	Mercers - Men's & Boys' Outfitters	Warringah Mall Squire Shop, 46-47 The Mall, 463-477 Pittwater Rd., Brookvale	113560	1965	Premise Match	0m	South East
	Tailors-Ladies'/Gents	Warringah Mall Squire Shop, 46-47 The Mall, 463-477 Pittwater Rd., Brookvale	149807	1965	Premise Match	0m	South East
	Fruiterers & Greengrocers	Wholesale Providores Food Store, 6 Warringah Mall, 463 Pittwater Rd., Brookvale	92368	1965	Premise Match	0m	South East
	ENGINEERS-CINEMATOGRAPH	Distinctive Products Pty. Ltd., 463 Pittwater Rd., Brookvale	304804	1961	Premise Match	0m	South East
	PHOTOGRAPHIC EQUIPMENT MFRS. &/OR DIST.	Distinctive Products Pty. Ltd., 463 Pittwater Rd., Brookvale	357920	1961	Premise Match	0m	South East
	MOTOR BRAKE SERVICES	Golden Fleece Brookvale Service Station, 459 Pittwater Rd., Brookvale	344537	1961	Premise Match	0m	South East
	BUILDERS & CONTRACTORS-(M.M.B.A.)	Seller Bros. Pty. Ltd., 463 Pittwater Rd., BROOKVALE	277604	1961	Premise Match	0m	South East
5	Importers	Hale imports Pty. Ltd., 97 Old Pittwater Rd., Brookvale 2100	48961	1991	Premise Match	0m	North
	DIAMOND TOOL MFRS. &/OR DIST.	Diamond & Boart Pty. Limited, 97 Old Pittwater Rd., Brookvale. 2100	23933	1986	Premise Match	0m	North
	DIAMOND-INDUSTRIAL -SUPPLIERS.	Diamond & Boart Pty. Limited, 97 Old Pittwater Rd., Brookvale. 2100	23946	1986	Premise Match	0m	North
	DIAMOND TOOL MFRS.&/OR DIST. (D2510)	Diamond & Boart Pty. Limited, 97 Old Pittwater Rd., Brookvale. 2100.	21353	1982	Premise Match	0m	North
	DIAMONDS-INDUSTRIAL-SUPPLIERS. (D2650)	Diamond & Boart Pty. Limited, 97 Old Pittwater Rd., Brookvale. 2100.	21364	1982	Premise Match	0m	North
	DIAMOND DRILL BITS.	Diamond & Boart Pty. Ltd. 97-99 Old Pittwater Rd., Brookvale. 2100	18773	1978	Premise Match	0m	North
	DIAMOND TOOL MFRS.&/OR DIST.	Diamond & Boart Pty. Ltd. 97-99 Old Pittwater Road, Brookvale. 2100	18832	1978	Premise Match	0m	North
	DIAMOND TOOL MFRS.&/OR DIST.	Diamond & Boart Pty. Ltd., 97 Old Pittwater Rd., Brookvale. 2100	18839	1978	Premise Match	0m	North
	DIAMONDS-INDUSTRIAL-SUPPLIERS.	Diamond & Boart Pty. Ltd., 97 Old Pittwater Rd., Brookvale. 2100	18846	1978	Premise Match	0m	North
	DIAMOND TOOL MFRS. &/OR DIST.	Diamond & Boart Pty. Ltd., 97 Old Pittwater Rd., Brookvale. 2100	21723	1975	Premise Match	0m	North
	DIAMOND TOOL MFRS. &/OR DIST.	Diamond & Boart Pty. Ltd., 97 Old Pittwater Rd., Brookvale. 2100	21717	1975	Premise Match	0m	North
	DIAMONDS-INDUSTRIAL-SUPPLIERS.	Diamond & Boart Pty. Ltd., 97 Old Pittwater Rd., Brookvale. 2100	21731	1975	Premise Match	0m	North
	DIAMOND DRILL BITS.	Diamond & Boart Pty. Ltd., 97-99 Old Pittwater Rd., Brookvale. 2100	21667	1975	Premise Match	0m	North
	DIAMOND TOOL MFRS.&/OR WHOLESALE (D210)	Diamond & Boart Products (Aust) Pty. Ltd., 97 Old Pittwater Rd., Brookvale	289367	1970	Premise Match	0m	North
	DIAMOND DRILL BITS	DIAMOND & BOART PRODUCTS (AUSTRALIA) PTY LTD, 97-99 OLD PITTWATER RD., BROOKVALE, 2100	289286	1970	Premise Match	0m	North
	DIAMONDS-Industrial-SUPPLIERS (D220)	Diamond & Boart Products (Aust.) Pty. Ltd., 97 Old Pittwater Rd., Brookvale	289374	1970	Premise Match	0m	North
6	Lithographic Plate Makers	Henson Lithographics Pty. Ltd., 3/107 Old Pittwater Rd., Brookvale. 2100	50863	1991	Premise Match	0m	South
	Plumbers &/or Gasfitters	Lionhart Plumbing Services Pty. Ltd, 9/107 Old Pittwater Rd., Brookvale. 2100	58169	1991	Premise Match	0m	South
	Concrete Cutting, Grinding, Breaking, Sewing & Drilling Service	Mastercut Concrete Sewing, Unit 9/107 Old Pittwater Rd., Brookvale 2100	40461	1991	Premise Match	0m	South

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6	Importers	Primo Imports, Unit 5/107 Pittwater Rd., Brookvale. 2100	49023	1991	Premise Match	0m	South
	Printers Lithographic (Offset)	Redwood Press Printers, 2/107 Old Pittwater Rd Brookvale 2100	59309	1991	Premise Match	0m	South
	Printers Lithographic (Offset)	Redwood Press, 2/107 Old Pittwater Rd Brookvale 2100	59307	1991	Premise Match	0m	South
	Printers General	Redwood Press, 2/107 Old Pittwater Rd., Brookvale. 2100	58856	1991	Premise Match	0m	South
	Printers Lithographic (Offset)	REDWOOD PRESS, 2/107 Pittwater Road., Brookvale. 2100	59308	1991	Premise Match	0m	South
	Printers General	Redwood Printing Co. Ltd., 2/107 Old Pittwater Rd., Brookvale. 2100	58857	1991	Premise Match	0m	South
	Lithographic Plate Makers	Reproduction Company Pty. Ltd., 6/107 Old Pittwater Rd., Brookvale. 2100	50888	1991	Premise Match	0m	South
	Screen Printers Supplies	Screen Technology, 14/107 Old Pittwater Rd Brookvale 2100	61776	1991	Premise Match	0m	South
	Blinds Venetian Cleaning &/or Repairing	Venetia Clean, Unit 4/107 Old Pittwater Road, Brookvale 2100	96229	1991	Premise Match	0m	South
	ENGINEERS – ELECTRICAL.	Control Logic (N.S.W.), 1/107 Old Pittwater Rd., Brookvale. 2100	29141	1986	Premise Match	0m	South
	ENGINEERS – ELECTRONIC.	Control Logic (N.S.W.) 1/107 Old Pittwater Rd., Brookvale. 2100	29273	1986	Premise Match	0m	South
	ELECTRIC CONTROL EQUIPMENT.	Control Logic (N.S.W.) Pty.Ltd., 1, /107 Old Pittwater Road, Brookvale. 2100	26166	1986	Premise Match	0m	South
	ELECTRIC CONTROL EQUIPMENT.	Control Logic (N.S.W.), 1/107 Old Pittwater Rd., Brookvale. 2100	26169	1986	Premise Match	0m	South
	ELECTRIC GENERATING EQUIPMENT MFRS. &/OR IMPS. &/OR DIST.	Control Logic (N.S.W.), 1/107 Old Pittwater Rd., Brookvale. 2100	26286	1986	Premise Match	0m	South
	ELECTRIC LIGHT SPECIALISTS &/OR INSTALLERS &/OR DESIGNERS.	Control Logic (N.S.W.), 1/107 Old Pittwater Rd., Brookvale. 2100	26441	1986	Premise Match	0m	South
	ELECTRIC POWER SUPPLIES.	Control Logic (N.S.W.), 1/107 Old Pittwater Rd., Brookvale. 2100	26694	1986	Premise Match	0m	South
	ELECTRIC SWITCH & CONTROL GEAR MFRS. &/OR IMPS. &/OR DIST.	Control Logic (N.S.W.), 1/107 Old Pittwater Rd., Brookvale. 2100	26770	1986	Premise Match	0m	South
	ELECTRONIC INDUSTRIAL CONTROL EQUIPMENT MFRS.	Control Logic (N.S.W.), 1/107 Old Pittwater Rd., Brookvale. 2100	28092	1986	Premise Match	0m	South
	ELECTRIC SWITCH & CONTROL GEAR-FLAME &/OR DUST IGNITION PROOF-MFRS. &/OR IMPS. &/OR DIST.	Control Logic (N.S.W.), 1/107 Old-Pittwater Rd., Brookvale. 2100	26715	1986	Premise Match	0m	South
	PRINTERS. LITHOGRAPHIC PLATEMAKERS.	Henson Lithographics Pty. Ltd., 3/107 Old Pittwater Rd. Brookvale. 2100	77014	1986	Premise Match	0m	South
	PLUMBERS, GASFITTERS &/OR DRAINLAYERS.	Lionhart Plumbing Services Pty. Ltd., Unit 9, 107 Old Pittwater Rd., Brookvale. 2100	74975	1986	Premise Match	0m	South
	CONCRETE SAWING &/OR DRILLING SERVICES.	Mastercut Concrete Sawing, Unit 9, 107 Old Pittwater Rd., Brookvale. 2100	19966	1986	Premise Match	0m	South
	MOTOR CAMPER CONVERSIONS.	Modular Camping Industries, 4, 107 Old Pittwater Rd., Brookvale. 2100	61772	1986	Premise Match	0m	South
	CLOTHING MFRS. &/OR W/SALERS.-SPORTSWEAR.	Ocean Crest Swimwear, 14/107 Old Pittwater Rd., Brookvale. 2100	16375	1986	Premise Match	0m	South
	PRINTERS - GENERAL.	Redwood Press Pty. Ltd. 107 Old Pittwater Road, Brookvale. 2100	75946	1986	Premise Match	0m	South
	PRINTERS - LETTERPRESS.	Redwood Press Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100	76335	1986	Premise Match	0m	South
	PRINTERS - LITHOGRAPHIC.	Redwood Press Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100	76851	1986	Premise Match	0m	South
	PRINTERS. LITHOGRAPHIC PLATEMAKERS.	Reproduction Company Pty. Ltd., The, 6/107 Old Pittwater Rd., Brookvale. 2100	77045	1986	Premise Match	0m	South

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6	CABINET MAKERS.	Wilkins & Earnshaw Cabinet Makers, 5/107 Old Pittwater Rd., Brookvale. 2100	11107	1986	Premise Match	0m	South
	WASHING MACHINE SALES &/ORSERVICE. (W0960)	Harbord Washer Service, Bay 5, 107 Old Pittwater Rd., Brookvale. 2100.	83807	1982	Premise Match	0m	South
	SMALL GOODS MFRS. &/OR W/SALERS. (S3960)	Meatrite Smallgoods Pty. Ltd., 11/107 Old Pittwater Rd., Brookvale. 2100.	75099	1982	Premise Match	0m	South
	KITCHEN UNIT MANUFACTURERS.(K0500)	Moda Kitchens, Unit 7, 107 Old Pittwater Rd., Brookvale. 2100.	44226	1982	Premise Match	0m	South
	FURNITURE &/OR CABINET MAKERS SUPPLIES. (F7355)	Mode Kitchens, Unit 7, 107 Old Pittwater Rd., Brookvale.2100.	34402	1982	Premise Match	0m	South
	MOTOR CAMPER CONVERSIONS.(M5385)	Modular Campervan, 4, 107 Old Pittwater Rd., Brookvale. 2100.	54553	1982	Premise Match	0m	South
	MOTOR TRIMMERS. (M8260)	Modular Campervan, 4, 107 Old Pittwater Rd., Brookvale. 2100.	59814	1982	Premise Match	0m	South
	PRINTERS - LETTERPRESS. (P8420)	Redwood Press Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100.	66260	1982	Premise Match	0m	South
	PRINTERS - LITHOGRAPHIC (OFFSET). (P8440)	Redwood Press Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100.	66696	1982	Premise Match	0m	South
	KITCHEN UNIT MANUFACTURERS.(K0500)	Supreme Kitchens Pty. Ltd., 8/107 Old Pittwater Rd., Brookvale. 2100.	44262	1982	Premise Match	0m	South
	FURNITURE &/OR CABINET MAKERS SUPPLIES. (F7355)	Supreme Kitchens Pty. Ltd., 8/107 Old Pittwater Rd., Brookvale.2100.	34412	1982	Premise Match	0m	South
	PHOTOGRAPHERS-COMMERCIAL.	Fat Angel Foto Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100	56547	1978	Premise Match	0m	South
	PRINTERS SILK &/OR TEXTILE.	Fat Angel Foto Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100	59821	1978	Premise Match	0m	South
	PHOTOGRAPHERS-COMMERCIAL.	Fat Angel Foto Pty. Ltd., 107 Old Pittwater Road, Brookvale 2100	56516	1978	Premise Match	0m	South
	ROOM HEATERS-ELECTRIC-MFRS. &/OR DIST.	Haan Australia Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100	63958	1978	Premise Match	0m	South
	SMALL GOODS MFRS. &/OR W/SALERS.	Meatrite Smallgoods Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100	66519	1978	Premise Match	0m	South
	FOOD. PROCESSORS &/OR PACKERS.	T.C. Supplies Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100	29025	1978	Premise Match	0m	South
	METAL SPINNERS.	A.D.N.Spunware., 107 Old Pittwater Rd., Brookvale. 2100	53010	1975	Premise Match	0m	South
	SMALL GOODS MFRS. &/OR W/SALERS.	Dapro Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100	77847	1975	Premise Match	0m	South
	ELECTRONICS-INDUSTRIAL CONTROL EQUIPMENT MFRS.	Godsmark Electronics Pty. Ltd., 107 Old Pittwater Rd., Brookvale.	26913	1975	Premise Match	0m	South
	COIN COUNTING TESTING &/OR WRAPPING MACHINE MFRS.	Godsmark Electronics Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100	18223	1975	Premise Match	0m	South
	ELECTRONIC EQUIPMENT MFRS. &/OR DIST.	Godsmark Electronics Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100	26820	1975	Premise Match	0m	South
	ENGINEERS-ELECTRONIC.	Godsmark Electronics Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100.	28322	1975	Premise Match	0m	South
	PRINTED CIRCUIT MFRS.	Process Services Electrochemical Pty. Ltd., 107 Old Pittwater Rd., Brookvale. 2100	69170	1975	Premise Match	0m	South
	JEWELLERY CASE MFRS. &/OR DIST	Shipp Enterprises., 107 Old Pittwater Rd., Brookvale. 2100	46174	1975	Premise Match	0m	South
	PACKAGING &/OR PACKING SPECIALISTS	Shipp Enterprises., 107 Old Pittwater Rd., Brookvale. 2100	65183	1975	Premise Match	0m	South
7	Cosmetic Mfrs &/or W/Salers	Avon Products Pty. Ltd., 120 Old Pittwater Rd., Brookvale 2100	40878	1991	Premise Match	20m	West
8	Diamond Tool Mfrs &/or Dists	Boart Electro-Metallics Pty. Ltd., Unit 1/126 Old Pittwater Rd., Brookvale 2100	41374	1991	Premise Match	21m	South West
	Bicycle &/or Accessory Mfrs &/or W/salers	Centurion Bicycles Pty Ltd, 126 Old Pittwater Rd, Brookvale 2100	35916	1991	Premise Match	21m	South West
	Clock &/or Barometer Mfrs &/or Imps &/or Dists	Citizen Watches Aust. Pty. Ltd., 122 Old Pittwater Rd., Brookvale 2100	39172	1991	Premise Match	21m	South West
	Drawing & Drafting Equipment &/or Supplies	Davron Diazo Products Pty. Ltd., 124 Old Pittwater Rd., Brookvale 2100	41702	1991	Premise Match	21m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
8	Signs Neon &/or Illuminated	Signcraft Pty Ltd, 126 Old Pittwater Rd Brookvale 2100	62605	1991	Premise Match	21m	South West
	CYCLE ACCESSORIES MFRS. &/OR W/SALERS.	Centurion Bicycles Pty. Ltd., 126 Old Pittwater Rd., Brookvale. 2100	21099	1986	Premise Match	21m	South West
	ELECTRIC CLOCK MFRS. &/OR DIST.	Citizen Watches Aust. Pty. Ltd., 122 Old Pittwater Rd., Brookvale. 2100	26101	1986	Premise Match	21m	South West
	WATCH IMPS. &/OR DIST. &/OR W/SALERS.	Citizen Watches Aust. Pty. Ltd., 122 Old Pittwater Rd., Brookvale. 2100	98350	1986	Premise Match	21m	South West
	ELECTRIC CLOCK MFRS. &/OR DIST. (E1110)	Citizen Watches Aust. Pty. Ltd., 122 Old Pittwater Rd., Brookvale. 2100.	24592	1982	Premise Match	21m	South West
	WATCH IMPS. &/OR DIST. &/OR W/SALERS. (W1200)	Citizen Watches Aust. Pty. Ltd., 122 Old Pittwater Rd., Brookvale. 2100.	83876	1982	Premise Match	21m	South West
	PRINTERS - LETTERPRESS. (P8420)	Dynamic Press Pty. Ltd., 126 Old Pittwater Rd., Brookvale. 2100.	66072	1982	Premise Match	21m	South West
	PRINTERS - LITHOGRAPHIC (OFFSET). (P8440)	Dynamic Press Pty. Ltd., 126 Old Pittwater Rd., Brookvale. 2100.	66491	1982	Premise Match	21m	South West
	CLOTHING - GENERAL MFRS.&/OR W/SALERS. (C5167)	Londonderry Designs, 126 Old Pittwater Rd., Brookvale. 2100.	16725	1982	Premise Match	21m	South West
	WATCH IMPS. &/OR DIST. &/OR W/SALERS.	Citizen Watches Aust. Pty. Ltd., 122 Old Pittwater Rd., Brookvale 2100	73934	1978	Premise Match	21m	South West
	ELECTRIC CLOCK MFRS. &/OR DIST.	Citizen Watches Aust. Pty. Ltd., 122 Old Pittwater Rd., Brookvale. 2100	21575	1978	Premise Match	21m	South West
	PAPER SENSITIZED MFRS.	Davron Diazo Products Pty. Ltd., 126 Old Pittwater Rd., Brookvale. 2100	56071	1978	Premise Match	21m	South West
	DRAWING OFFICE SUPPLIES	Davron Diazo Products Pty. Ltd., 126 Old Pittwater Rd., Brookvale. 2100	19729	1978	Premise Match	21m	South West
	PRINTERS-LETTERPRESS.	Dynamic Press Pty. Ltd., 126 Old Pittwater Rd., Brookvale. 2100	58995	1978	Premise Match	21m	South West
	PRINTERS-LITHOGRAPHIC	Dynamic Press Pty. Ltd., 126 Old Pittwater Rd., Brookvale. 2100	59421	1978	Premise Match	21m	South West
	PRINTERS-LITHOGRAPHIC PLATEMAKERS.	Lutone Lithographic Platemaking Service, 126 Old Pittwater Rd., Brookvale. 2100	59726	1978	Premise Match	21m	South West
	PRINTERS-LETTERPRESS.	Dynamic Press Pty. Ltd., 126 Old Pittwater Rd., Brookvale. 2100	69411	1975	Premise Match	21m	South West
	PRINTERS-LITHOGRAPHIC (OFFSET).	Dynamic Press Pty. Ltd., 126 Old Pittwater Rd., Brookvale. 2100	69869	1975	Premise Match	21m	South West
	PRINTERS., LITHOGRAPHIC PLATEMAKERS.	Lutone Lithographic Platemaking Service., 126 Old Pittwater Rd., Brookvale. 2100	70171	1975	Premise Match	21m	South West
	CHEMICAL MANUFACTURERS &/OR DISTRIBUTORS (C268)	Adams National Industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale	279293	1970	Premise Match	21m	South West
	CHEMISTS-MANUFACTURING &/OR WHOLESALE	Adams National Industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale	279763	1970	Premise Match	21m	South West
	COSMETIC MFRS. &/OR W'SALERS (C692)	Adams National Industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale	285973	1970	Premise Match	21m	South West
	INSECTICIDE MFRS. (I340)	Adams National Industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale.	319267	1970	Premise Match	21m	South West
	PEST CONTROL (P238)	Adams National Industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale.	347602	1970	Premise Match	21m	South West
	TOILET PREPARATIONS MFRS.(T450)	Adams National Industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale.	369367	1970	Premise Match	21m	South West
	CHEMISTS-MANUFACTURING &/OR WHOLESALE	Delph Pty. Ltd., 122 Old Pittwater Rd., Brookvale	279820	1970	Premise Match	21m	South West
	COSMETIC MFRS. &/OR W'SALERS (C692)	Delph Pty. Ltd., 122 Old Pittwater Rd., Brookvale.	285994	1970	Premise Match	21m	South West
	TOILET PREPARATIONS MFRS.(T450)	Delph Pty. Ltd., 122 Old Pittwater Rd., Brookvale.	369379	1970	Premise Match	21m	South West
	BUILDERS' HARDWARE MFRS. &/OR DISTRIBUTORS	Durkin Industries Pty. Ltd., 124 Old Pittwater Rd., Brookvale	271047	1970	Premise Match	21m	South West
	CLEANSER & CLEANING PREPARATION MFRS. &/OR DIST.(C392)	Durkin Industries Pty. Ltd., 124 Old Pittwater Rd., Brookvale	281935	1970	Premise Match	21m	South West
	Chemical Manufacturers &/or Distributors	Adams National Industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale	64082	1965	Premise Match	21m	South West

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8	Chemists - Manufacturing &/or Wholesale	Adams National Industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale	64436	1965	Premise Match	21m	South West
	Cosmetic Mfrs. &/or W'salers	Adams National Industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale	70696	1965	Premise Match	21m	South West
	Insecticide Mfrs.	Adams National industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale	103477	1965	Premise Match	21m	South West
	Pest Control	Adams National Industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale	132088	1965	Premise Match	21m	South West
	TOILET PREPARATIONS MFRS.	Adams National industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale	152286	1965	Premise Match	21m	South West
	COSMETIC MFRS. &/OR W'SALERS	Adams National Industries (Adams) Pty. Ltd., 122 Old Pittwater Rd., Brookvale	293340	1961	Premise Match	21m	South West
	CHEMISTS-PHARMACEUTICAL	Adams National Industries (Aust.) Pty. Ltd., 122 Old Pittwater Rd., Brookvale	287273	1961	Premise Match	21m	South West
9	Printers Lithographic (Offset)	Acorn Press Pty. Ltd., Unit 11/111 Old Pittwater. Rd., Brookvale. 2100	59005	1991	Premise Match	23m	South
	Printers Lithographic (Offset)	ESP erry and sons Pty. Ltd, Unit 11/111 Old Pittwater Rd Brookvale 2100	97003	1991	Premise Match	23m	South
	Display & Exhibition Equipment &/or Supplies	Exhibition Displays Pty. Ltd., Unit 8/111 Old Pittwater Rd, Brookvale 2100	41514	1991	Premise Match	23m	South
	Clothing Mfrs &/or W/salers Ladies Dresses &/or Suits	Future Designs, 111 Old Pittwater Rd., Brookvale 2100	39391	1991	Premise Match	23m	South
	Screen Printers	Jagged, 7/111 Old Pittwater Rd Brookvale 2100	61719	1991	Premise Match	23m	South
	Photographers Commercial &/or Industrial	L.J.R. Photography, 111 Old Pittwater Rd., Brookvale. 2100	57236	1991	Premise Match	23m	South
	Chemists Biological	Pharmaceutical Laboratories., Top fl/111 Old Pittwater Rd., Brookvale 2100	38988	1991	Premise Match	23m	South
	Clothing Mfrs &/or W/salers Ladies Dresses &/or Suits	Shryode Pty. Ltd, 111 Old Pittwater Rd., Brookvale 2100	39438	1991	Premise Match	23m	South
	SCREEN PROCESS PRINTERS.	Amco Textile Printing & Promotions 7, 111 Old Pittwater Road, Brookvale. 2100	85146	1986	Premise Match	23m	South
	SCREEN PROCESS PRINTERS.	Amco Textile Printing a Promotions, 7/111 Old Pittwater Rd., Brookvale. 2100	85164	1986	Premise Match	23m	South
	SCREEN PROCESS PRINTERS.	Ayco Textile Printing a Promotions, 7/111 Old Pittwater Rd., Brookvale. 2100	85167	1986	Premise Match	23m	South
	DISPLAY FITTINGS & STANDS MFRS. &/OR DIST. &/OR SUPPLIERS.	Exhibition Displays, 111 Old Pittwater Rd., Brookvale. 2100	24293	1986	Premise Match	23m	South
	DISPLAY SPECIALISTS.	Exhibition Displays, 111 Old Pittwater Rd., Brookvale. 2100	24350	1986	Premise Match	23m	South
	CLOTHING MFRS. &/OR W/SALERS.-LADIES FROCKS &/OR SUITS.	Future Designs, 111 Old Pittwater Rd., Brookvale. 2100	15967	1986	Premise Match	23m	South
	CLOTHING MFRS. &/OR W/SALERS.-MENS &/OR BOYS WEAR.	Future Designs, 111 Old Pittwater Rd., Brookvale. 2100	16158	1986	Premise Match	23m	South
	ARTISTS-COMMERCIAL & INDUSTRIAL.	Graph-Vis Studios, 111 Old Pittwater Rd., Brookvale. 2100	3871	1986	Premise Match	23m	South
	PHOTOGRAPHERS COMMERCIAL &/OR INDUSTRIAL.	L.J.R. Photography, 111 Old Pittwater Rd., Brookvale. 2100	72851	1986	Premise Match	23m	South
	CLOTHING MFRS. &/OR W/SALERS.-LADIES FROCKS &/OR SUITS.	Shryode Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100	16083	1986	Premise Match	23m	South
	CLOTHING MFRS. &/OR W/SALERS.-MENS &/OR BOYS WEAR.	Shryode Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100	16195	1986	Premise Match	23m	South
	CABINET MAKERS. (C0030)	Exhibition Displays, 111 Old Pittwater Rd., Brookvale. 2100.	12007	1982	Premise Match	23m	South

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
9	DISPLAY FITTINGS & STANDS MFRS. &/OR DISTS. &/OR SUPPLIERS. (D4260)	Exhibition Displays, 111 Old Pittwater Rd., Brookvale. 2100.	21701	1982	Premise Match	23m	South
	CLOTHING - FROCKS & SUITS MFRS. &/OR W/SALERS. (C5166)	Future Designs Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100.	16545	1982	Premise Match	23m	South
	CLOTHING - FROCKS & SUITS MFRS. &/OR W/SALERS. (C5166)	Future Designs Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100.	16544	1982	Premise Match	23m	South
	CLOTHING - GENERAL MFRS.&/OR W/SALERS. (C5167)	Future Designs Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100.	16707	1982	Premise Match	23m	South
	CLOTHING - MENS & BOYS WEAR MFRS. &/OR W/SALERS. (C5657)	Future Designs Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100.	16906	1982	Premise Match	23m	South
	CLOTHING-BABIES & CHILDRENS WEAR MFRS. &/OR W/SALERS.(C5162)	Future Designs Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100.	16391	1982	Premise Match	23m	South
	PLASTIC MFRS. &/OR MOULDERS.(P6080)	Le Roy, N. D. & S. J., 7/111 Old Pittwater Rd., Brookvale. 2100.	64915	1982	Premise Match	23m	South
	PLASTIC GOODS MFRS. (P5860)	Le Roy, N. D., 111 Old Pittwater Rd., Brookvale. 2100.	64733	1982	Premise Match	23m	South
	PLASTIC MFRS. &/OR MOULDERS.(P6080)	Le Roy, N. D., 111 Old Pittwater Rd., Brookvale. 2100.	64914	1982	Premise Match	23m	South
	CATERERS SUPPLIES. (C2700)	Maddell & Co., 11/111 Old Pittwater Rd., Brookvale. 2100.	14046	1982	Premise Match	23m	South
	HOTEL &/OR MOTEL EQUIPMENT SUPPLIES. (H7100)	Maddell & Co., 11/111 Old Pittwater Rd., Brookvale. 2100.	40530	1982	Premise Match	23m	South
	DISPLAY FITTINGS & STANDS MFRS. &/OR DISTS. &/OR SUPPLIERS.	Exhibition Displays Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100	19169	1978	Premise Match	23m	South
	DISPLAY MODEL MFRS. &/OR SUPPLIERS.	Exhibition Displays Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100	19215	1978	Premise Match	23m	South
	TOY MFRS. &/OR DISTS.	Francell Industries Pty. Ltd, 111 Old Pittwater Rd, Brookvale. 2100	71839	1978	Premise Match	23m	South
	WHEEL MANUFACTURERS.	Francell Industries Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100	74492	1978	Premise Match	23m	South
	CLOTHING - BABIES & CHILDRENS WEAR MFRS. &/OR W/SALERS.	Future Designs, 111 Old Pittwater Rd., Brookvale. 2100	14524	1978	Premise Match	23m	South
	CLOTHING - MENS & BOYS WEAR MFRS. &/OR W/SALERS.	Future Designs. 111 Old Pittwater Rd., Brookvale. 2100	15161	1978	Premise Match	23m	South
	CLOTHING-GENERAL MFRS. &/OR W/SALERS.	Future Designs. 111 Old Pittwater Rd., Brookvale. 2100	14932	1978	Premise Match	23m	South
	CLOTHING - FROCKS & SUITS MFRS. &/OR W/SALERS.	J. M. K, Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100	14760	1978	Premise Match	23m	South
	MANCHESTER MFRS. &/OR W/SALERS.	Londonderry Designs Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100	41057	1978	Premise Match	23m	South
	COSMETIC MFRS. &/OR W/SALERS.	Check international Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100	19062	1975	Premise Match	23m	South
	RECORDING EQUIPMENT MFRS. &/OR IMPS. &/OR DISTS.	Jervis Australia Pty. Ltd., 111 Old Pittwater Rd., Brookvale. 2100	73221	1975	Premise Match	23m	South
10	Chemical Mfrs &/or Imps &/or Dist	A.C.C. Austpac Chemicals & Commodities Pty. Ltd., Unit 4/91 Old Pittwater Rd., Brookvale 2100	38816	1991	Premise Match	40m	North
	Mail Order Specialists	Creative Direct Mail Marketing Pty Ltd, Unit 6/91 Old Pittwater Rd., Brookvale 2100	51069	1991	Premise Match	40m	North
	Business & Commercial Mailing Service	Creative Direct Mail Marketing, Unit 6/91 Old Pittwater Rd., Brookvale 2100	37674	1991	Premise Match	40m	North
	Clock &/or Barometer Mfrs &/or Imps &/or Dist	Davey, J. A. (Importers) Pty. Ltd., 5/91 Old Pittwater Rd., Brookvale 2100	39174	1991	Premise Match	40m	North
	Importers	Loveday Corporation, Unit 2/91 Old Pittwater Rd., Brookvale. 2100	48993	1991	Premise Match	40m	North



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10	Food Products Mfrs &/or Processors	Maison Pate, Unit 4/91 Old Pittwater Rd., Brookvale 2100	46141	1991	Premise Match	40m	North
	CLOCK &/OR BAROMETER MFRS. &/OR IMPS. &/OR DIST.	Davey, J. A. (Import) Pty. Ltd., 5/91 Old Pittwater Rd., Brookvale. 2100	15554	1986	Premise Match	40m	North
	IMPORTERS.	Davey, J. A. (Import) Pty. Ltd., 5/91 Old Pittwater Rd., Brookvale. 2100	47585	1986	Premise Match	40m	North
	MANUFACTURERS AGENTS.	Davey, J. A. (Import) Pty. Ltd., 5/91 Old Pittwater Rd., Brookvale. 2100	52536	1986	Premise Match	40m	North
	PHOTOGRAPHIC EQUIPMENT &/OR IMPS. &/OR DIST.	Davey, J. A. (Import) Pty. Ltd., 5/91 Old Pittwater Rd., Brookvale. 2100	73205	1986	Premise Match	40m	North
	WELDING EQUIPMENT HIRERS.	Wrackair Pty. Ltd., 93 Old Pittwater Rd., Brookvale. 2100	74399	1978	Premise Match	40m	North
	BUILDERS EQUIPMENT HIRERS.	Wreckair Pty. Ltd., 93 Old Pittwater Rd, Brookvale. 2100	8017	1978	Premise Match	40m	North
	HIRING SERVICES.	Wreckair Pty. Ltd., 93 Old Pittwater Rd, Brookvale. 2100	35635	1978	Premise Match	40m	North
	AIR COMPRESSORS &/OR EQUIPMENT FOR HIRE.	Wreckair Pty. Ltd., 93 Old Pittwater Rd., Brookvale. 2100	1886	1978	Premise Match	40m	North
	AIR COMPRESSORS &/OR EQUIPMENT FOR HIRE	Wrackair Pty. Ltd., 93 Old Pittwater Rd., Brookvale. 2100	1643	1975	Premise Match	40m	North
	BUILDERS EQUIPMENT HIRERS.	Wreckair Plant Hire, 93 Old Pittwater Rd. Brookvale. 2100	8983	1975	Premise Match	40m	North
	BUILDERS EQUIPMENT HIRERS.	Wreckair Pty. Ltd. 93 Old Pittwater Rd, Brookvale. 2100.	9032	1975	Premise Match	40m	North
	ENGINEERS-MINING.	Wreckair Pty. Ltd., 93 Old Pittwater Rd., Brookvale. 2100	29889	1975	Premise Match	40m	North
	HIRING SERVICES.	Wreckair Pty. Ltd., 93 Old Pittwater Rd., Brookvale. 2100	42110	1975	Premise Match	40m	North
	WELDING EQUIPMENT HIRERS.	Wreckair Pty. Ltd., 93 Old Pittwater Rd., Brookvale. 2100	87164	1975	Premise Match	40m	North
	ENGINEERS-CIVIL	Wreckair Pty. Ltd., 93 Old Pittwater Rd., Brookvale. 2100.	27659	1975	Premise Match	40m	North
	ENGINEERS-INDUSTRIAL	Wreckair Pty. Ltd., 93 Old Pittwater Rd., Brookvale. 2100.	29736	1975	Premise Match	40m	North
11	Furniture Removalists &/or Storage	Harbord Removals., 128 Old Pittwater Rd., Brookvale. 2100	47353	1991	Premise Match	66m	South West
	FURNITURE REMOVALISTS &/OR STORAGE.	Harbord Removals, 128 Old Pittwater Rd., Brookvale. 2100	38045	1986	Premise Match	66m	South West
	BOAT, LAUNCH &/OR YACHT BUILDERS &/OR REPAIRERS. (B3600)	Deltacraft Pty. Ltd., 128 Old Pittwater Rd., Brookvale. 2100.	7168	1982	Premise Match	66m	South West
	BOAT, LAUNCH &/OR YACHT BUILDERS &/OR REPAIRERS.	Deltacraft Pty. Ltd., 128 Old Pittwater Rd., Brookvale. 2100	6179	1978	Premise Match	66m	South West
	PLASTIC FABRICATORS &/OR VACUUM FORMERS.	Ritchie & Newton Plastics Pty. Ltd., 128 Old Pittwater Rd., Brookvale. 2100	67828	1975	Premise Match	66m	South West
	ENGINEERS-AIR CONDITIONING.	Waugh's Refrigeration & Air Conditioning Pty. Ltd., 128 Old Pittwater Rd., Brookvale. 2100.	27486	1975	Premise Match	66m	South West
	PLASTIC FABRICATORS & VACUUM FORMERS	Ritchie & Newton Plastics., 128 Old Pittwater Rd., Brookvale	349561	1970	Premise Match	66m	South West
	AIR CONDITIONING UNIT &/OR MACHINERY MFRS.	Waugh's Refrigeration & Air Conditioning Pty. Ltd., 128 Old Pittwater Rd., Brookvale	260845	1970	Premise Match	66m	South West
	ENGINEERS-AIR CONDITIONING (E490)	Waugh's Refrigeration & Air-Conditioning Pty. Ltd., 128 Old Pittwater Rd., Brookvale	297425	1970	Premise Match	66m	South West
	DOOR MANUFACTURERS	Halco Products Pty. Ltd., 128 Old Pittwater Rd., Brookvale	297535	1961	Premise Match	66m	South West
	METAL PRESSERS/STAMPERS	Halco Products Pty. Ltd., 128 Old Pittwater Rd., Brookvale	338232	1961	Premise Match	66m	South West
12	Fastener Mfrs &/or Dists	YKK Australia Pty Limited, 115 Old Pittwater Rd., Brookvale 2100	45344	1991	Premise Match	69m	South
	FASTENER MFRS. &/OR DIST.	YKK Australia Pty. Limited, 115 Old Pittwater Rd., Brookvale. 2100	32146	1986	Premise Match	69m	South

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12	SLIDE FASTENER MFRS. &/OR W/SALERS.	YKK Australia Pty. Limited, 115 Old Pittwater Rd., Brookvale. 2100	87021	1986	Premise Match	69m	South
	SLIDE FASTENER MFRS. &/OR. W/SALERS. (S3885)	YKK Australia Pty. Ltd., 117 Old Pittwater Rd., Brookvale. 2100.	75061	1982	Premise Match	69m	South
	SKI-SNOW EQUIPMENT &/OR APPAREL	Y. K. K. Australia Pty. Ltd. 117 Old Pittwater Road, Brookvale 2100	66434	1978	Premise Match	69m	South
	SLIDE FASTENER MFRS. &/OR W/SALERS.	YKK Australia Pty. Ltd., 117 Old Pittwater Rd., Brookvale. 2100	66473	1978	Premise Match	69m	South
	SLIPWAYS.	Y.K.K. Australia Pty. Ltd., 117 Old Pittwater Rd., Brookvale.	77820	1975	Premise Match	69m	South
	SLIDE FASTENER MFRS. &/OR W/SALERS.	YKK Australia Pty. Ltd., 117 Old Pittwater Rd., Brookvale. 2100	77798	1975	Premise Match	69m	South
	BITUMEN & BITUMINOUS PRODUCTS (B370)	Reely Products Pty. Ltd., 117 Old Pittwater Rd., Brookvale	267056	1970	Premise Match	69m	South
	BITUMINOUS TAR, OILS & PAINT MANUFACTURERS (B380)	Reely Products Pty. Ltd., 117 Old Pittwater Rd., Brookvale	267090	1970	Premise Match	69m	South
	DAMPCOURSE MFRS.(D060)	Reely Products Pty. Ltd., 117 Old Pittwater Rd., Brookvale	286950	1970	Premise Match	69m	South
	ROOFING MATERIAL MFRS. &/OR DISTRIBUTORS (R415)	Reely Products Pty. Ltd., 117 Old Pittwater Rd., Brookvale	357886	1970	Premise Match	69m	South
13	Video Cassette Mfrs &/or Dists	Fujimex, 108 Old Pittwater Rd Brookvale 2100	65745	1991	Premise Match	72m	North West
	Photographic Equipment &/or Supplies Mfrs. &/or Imps. &/or Dists.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale 2100	96533	1991	Premise Match	72m	North West
	PHOTOGRAPHIC EQUIPMENT &/OR IMPS. &/OR DIST.	Camera Distributors Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	73199	1986	Premise Match	72m	North West
	PHOTOGRAPHIC EQUIPMENT &/OR IMPS. &/OR DIST.	Fotek Corporation Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	73207	1986	Premise Match	72m	North West
	VIDEO CASSETTE & DISC DISTRIBUTORS.	Fujimex, 108 Old Pittwater Rd. Brookvale. 2100	97904	1986	Premise Match	72m	North West
	ADDING & CALCULATING MACHINE MFRS. &/OR IMPS. &/OR DIST.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	1294	1986	Premise Match	72m	North West
	BEACH EQUIPMENT MFRS.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	5605	1986	Premise Match	72m	North West
	COPYING MACHINES MFRS. &/OR DIST.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	20416	1986	Premise Match	72m	North West
	CYCLE ACCESSORIES MFRS. &/OR W/SALERS.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	21103	1986	Premise Match	72m	North West
	CYCLE MFRS.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	21192	1986	Premise Match	72m	North West
	DUPLICATING MACHINE MFRS. &/OR IMPS. &/OR DIST.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	25599	1986	Premise Match	72m	North West
	ELECTRIC FAN MFRS. &/OR DIST.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	26210	1986	Premise Match	72m	North West
	EXPORTERS.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	31745	1986	Premise Match	72m	North West
	IMPORTERS.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	47668	1986	Premise Match	72m	North West
	MICROFILM SERVICES.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	59010	1986	Premise Match	72m	North West
	OFFICE EQUIPMENT &/OR SUPPLIES MFRS. &/OR IMPS. &/OR W/SALERS.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	70250	1986	Premise Match	72m	North West
	PHOTO COPYING EQUIPMENT MFRS. &/OR DIST.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	72701	1986	Premise Match	72m	North West
	PHOTOGRAPHIC DEVELOPING, PRINTING &/OR COLOURING SERVICES.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	73058	1986	Premise Match	72m	North West
	PHOTOGRAPHIC EQUIPMENT &/OR IMPS. &/OR DIST.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	73212	1986	Premise Match	72m	North West
	PHOTOGRAPHIC EQUIPMENT &/OR SUPPLIES - W/SALERS &/OR DEALERS.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	73298	1986	Premise Match	72m	North West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
13	PHOTOGRAPHIC EQUIPMENT DEALERS.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	73161	1986	Premise Match	72m	North West
	RADIO &/OR TELEVISION MFRS. &/OR IMPS. &/OR W/SALERS.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	78711	1986	Premise Match	72m	North West
	RECORDING EQUIPMENTS MFRS. &/OR IMPS. &/OR DIST.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	80587	1986	Premise Match	72m	North West
	ROOM HEATERS- ELECTRIC- MFRS. &/OR DIST.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	83722	1986	Premise Match	72m	North West
	SPEARFISHING &/OR UNDERWATER EQUIPMENT.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	87308	1986	Premise Match	72m	North West
	SPORTING GOODS MFRS. &/OR IMPS. &/OR W/SALERS.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	87361	1986	Premise Match	72m	North West
	STEREOPHONIC EQUIPMENT MFRS. &/OR DIST.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	89322	1986	Premise Match	72m	North West
	SURFBOARDS &/OR SURFING EQUIPMENT MFRS. &/OR DIST.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	89733	1986	Premise Match	72m	North West
	X-RAY MEDICAL &/OR INDUSTRIAL APPARATUS MFRS. &/OR DIST.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	100138	1986	Premise Match	72m	North West
	SCHOOL SUPPLIES MFRS. &/OR DIST.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookville. 2100	84704	1986	Premise Match	72m	North West
	PICTURE FRAME MOULDING MFRS.	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100	73775	1986	Premise Match	72m	North West
	PHOTOGRAPHIC EQUIPMENT - MFRS. &/OR DIST. (P3820)	Camera Distributors Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	63784	1982	Premise Match	72m	North West
	PHOTOGRAPHIC EQUIPMENT - MFRS. &/OR DIST. (P3820)	Fotek Corporation Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	63790	1982	Premise Match	72m	North West
	RADIO &/OR TELEVISION DIST.-W/SALE. (R1085)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	68237	1982	Premise Match	72m	North West
	BEACH EQUIPMENT MFRS. (B1880)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	5069	1982	Premise Match	72m	North West
	X-RAY MEDICAL &/OR INDUSTRIAL APPARATUS MFRS. &/OR DIST.(X0255)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	85541	1982	Premise Match	72m	North West
	ADDING & CALCULATING MACHINE MFRS. &/OR IMPS. &/OR DIST. (A0970)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	1153	1982	Premise Match	72m	North West
	COPYING MACHINES MFRS. &/OR DIST. (C8100)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	18115	1982	Premise Match	72m	North West
	CYCLE ACCESSORIES MFRS. &/OR W/SALERS. (C9285)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	18794	1982	Premise Match	72m	North West
	CYCLE MFRS. (C9360)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	18870	1982	Premise Match	72m	North West
	DUPLICATING MACHINE MFRS.&/OR IMPS. &/OR DIST. (D9160)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	24126	1982	Premise Match	72m	North West
	ELECTRIC FAN MFRS. &/OR DIST. (E1350)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	24659	1982	Premise Match	72m	North West
	EXPORTERS. (E9270)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	29772	1982	Premise Match	72m	North West
	IMPORTERS. (I0750)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	41580	1982	Premise Match	72m	North West
	MICROFILM SERVICES. (M2940)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	52022	1982	Premise Match	72m	North West
	OFFICE EQUIPMENT MFRS.&/OR DIST. (O0400)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	61331	1982	Premise Match	72m	North West
	PHOTO COPYING EQUIPMENT MFRS. &/OR DIST. (P3240)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	63368	1982	Premise Match	72m	North West
	PHOTOGRAPHIC DEVELOPING,PRINTING &/OR COLOURING SERVICES. (P3780)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	63686	1982	Premise Match	72m	North West
	PHOTOGRAPHIC EQUIPMENT - MFRS. &/OR DIST. (P3820)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	63795	1982	Premise Match	72m	North West

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13	PHOTOGRAPHIC EQUIPMENT DEALERS	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	63740	1982	Premise Match	72m	North West
	PHOTOGRAPHIC SUPPLIES. (P3940)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	63858	1982	Premise Match	72m	North West
	PICTURE THEATRE EQUIPMENT&/OR SUPPLIES. (P4340)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	64164	1982	Premise Match	72m	North West
	RECORDING EQUIPMENT MFRS.&/OR IMPS. &/OR DIST. (R2975)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	70074	1982	Premise Match	72m	North West
	ROOM HEATERS - ELECTRIC - MFRS. &/OR DIST. (R6650)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	72436	1982	Premise Match	72m	North West
	SCHOOL SUPPLIES MFRS.&/OR DIST. (S1290)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	73305	1982	Premise Match	72m	North West
	SPEARFISHING &/OR UNDERWATER EQUIPMENT. (S4590)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	75301	1982	Premise Match	72m	North West
	SPORTS GOODS MFRS. (S4815)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	75366	1982	Premise Match	72m	North West
	STEREOPHONIC EQUIPMENT MFRS. &/OR DIST. (S6940)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	77256	1982	Premise Match	72m	North West
	SURFING EQUIPMENT MFRS. (S7875)	Hanimex Pty. Ltd., 108 Old Pittwater Rd., Brookvale. 2100.	77596	1982	Premise Match	72m	North West
14	Sheet Metal Workers	Aluminum Engineering (1971) Pty Ltd, 89 Old Pittwater Rd Brookvale 2100	62040	1991	Premise Match	76m	North
	Welders	Aluminum Engineering (1971) Pty Ltd, 89 Old Pittwater Rd Brookvale 2100	66018	1991	Premise Match	76m	North
	Boat, Launch &/or Yacht Builders &/or Designers &/or Repairer	Aluminum Engineering (1971) Pty Ltd, 89 Old Pittwater Rd, Brookvale 2100	36130	1991	Premise Match	76m	North
	Aluminum &/or Aluminum Alloy Mfrs &/or Dists	Aluminum Engineering (1971) Pty Ltd, 89 Old Pittwater Rd., Brookvale 2100	34302	1991	Premise Match	76m	North
	Aluminum Fabricators	Aluminum Engineering (1971) Pty. Ltd, 89 Old Pittwater Rd, Brookvale 2100	34333	1991	Premise Match	76m	North
	Aluminum Products Mfrs &/or Dists	Aluminum Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale 2100	34388	1991	Premise Match	76m	North
	ALUMINIUM FABRICATORS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	2729	1986	Premise Match	76m	North
	BOAT, LAUNCH &/OR YACHT BUILDERS &/OR REPAIRERS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	6273	1986	Premise Match	76m	North
	WELDERS - ELECTRIC &/OR OXY.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	98537	1986	Premise Match	76m	North
	SHEET METAL WORKERS.	Aluminum Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	85959	1986	Premise Match	76m	North
	ALUMINIUM FABRICATORS. (A5015)	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100.	2383	1982	Premise Match	76m	North
	BOAT, LAUNCH &/OR YACHT BUILDERS &/OR REPAIRERS. (B3600)	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100.	7138	1982	Premise Match	76m	North
	MOTOR BODY BUILDERS. (M5020)	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100.	54159	1982	Premise Match	76m	North
	MOTOR BODY REPAIRS &/OR CONVERTERS. (M5140)	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100.	54249	1982	Premise Match	76m	North
	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. (M7360)	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100.	58048	1982	Premise Match	76m	North
	SHEET METAL WORKERS. (S2595)	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100.	74222	1982	Premise Match	76m	North

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14	WELDERS - ELECTRIC &/OR OXY.(W3160)	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100.	84042	1982	Premise Match	76m	North
	ALUMINIUM FABRICATORS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	2251	1978	Premise Match	76m	North
	BOAT, LAUNCH &/OR YACHT BUILDERS &/OR REPAIRERS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	6147	1978	Premise Match	76m	North
	MOTOR BODY BUILDERS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	47700	1978	Premise Match	76m	North
	MOTOR BODY REPAIRS &/OR CONVERTERS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	47789	1978	Premise Match	76m	North
	MOTOR PANEL BEATERS	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	51812	1978	Premise Match	76m	North
	SHEET METAL WORKERS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	65688	1978	Premise Match	76m	North
	WELDERS-ELECTRIC &/OR OXY.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	74108	1978	Premise Match	76m	North
	MOTOR ENGINEERS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	58141	1975	Premise Match	76m	North
	MOTOR BODY BUILDERS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	56519	1975	Premise Match	76m	North
	MOTOR BODY REPAIRS &/OR CONVERTERS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	56600	1975	Premise Match	76m	North
	MOTOR PANEL BEATERS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	60565	1975	Premise Match	76m	North
	SHEET METAL WORKERS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100	76757	1975	Premise Match	76m	North
	BOAT, LAUNCH &/OR YACHTBUILDERS &/OR REPAIRERS.	Aluminium Engineering (1971) Pty. Ltd., 89 Old Pittwater Rd., Brookvale. 2100.	6572	1975	Premise Match	76m	North
	BOAT, LAUNCH & YACHT BUILDERS &/OR REPAIRERS	Aluminium Engineering Pty. Ltd., 89 Old Pittwater Rd., Brookvale	267468	1970	Premise Match	76m	North
	MOTOR BODY BUILDERS (M488)	Aluminium Engineering Pty. Ltd., 89 Old Pittwater Rd., Brookvale	335140	1970	Premise Match	76m	North
	MOTOR BODY REPAIRS/CONVERTERS (M496)	Aluminium Engineering Pty. Ltd., 89 Old Pittwater Rd., Brookvale	335258	1970	Premise Match	76m	North
	MOTOR PAINTERS (M672)	Aluminium Engineering Pty. Ltd., 89 Old Pittwater Rd., Brookvale	339074	1970	Premise Match	76m	North
	MOTOR PANEL BEATERS (M680)	Aluminium Engineering Pty. Ltd., 89 Old Pittwater Rd., Brookvale	339796	1970	Premise Match	76m	North
	MOTOR RACING CAR & EQUIP DESIGNERS (M692)	Aluminium Engineering Pty. Ltd., 89 Old Pittwater Rd., Brookvale	340636	1970	Premise Match	76m	North
	MOTOR CHASSIS ASSEMBLERS (M568)	Aluminium Engineering Pty. Ltd., 89 Old Pittwater Rd., Brookvale.	336472	1970	Premise Match	76m	North
	SHEET METAL WORKERS (S230)	Aluminium Engineering Pty. Ltd., 89 Old Pittwater Rd., Brookvale.	360531	1970	Premise Match	76m	North
15	Canopy and Cabin Mfrs &/or Dists	Chieftain Canopies, 87 Old Pittwater Rd., Brookvale 2100	38027	1991	Premise Match	76m	North
	Paint Anti Corrosive Mfrs &/or Imps &/or Dists	Forminex Pty. Limited., 85 Old Pittwater Rd., Brookvale. 2100	56595	1991	Premise Match	76m	North
	Founders Ferrous	Peninsula Foundry Craftsmen Pty. Ltd., 81 Old Pittwater Rd., Brookvale 2100	46385	1991	Premise Match	76m	North
	Founders Ferrous	Peninsula Foundry, 81 Old Pittwater Rd., Brookvale 2100	46384	1991	Premise Match	76m	North

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15	Motor Body Builders	Rice, L. & D., Rear, 85 Old Pittwater Rd., Brookvale. 2100	52141	1991	Premise Match	76m	North
	CANOPY AND CABIN MFRS. &/OR DIST.	Chieftain Canopies, 87 Old Pittwater Rd., Brookvale. 2100	12147	1986	Premise Match	76m	North
	FLOOR TREATMENT SPECIALISTS.	Forminex Pty. Limited, 85 Old Pittwater Rd., Brookvale. 2100	33573	1986	Premise Match	76m	North
	PAINT - INDUSTRIAL PROTECTIVE COATING.	Forminex Pty. Limited, 85 Old Pittwater Rd., Brookvale. 2100	71580	1986	Premise Match	76m	North
	PAINT - MARINE - MFRS. &/OR DIST.	Forminex Pty. Limited, 85 Old Pittwater Rd., Brookvale. 2100	71635	1986	Premise Match	76m	North
	PAINT - PLASTIC - MFRS. &/OR DIST.	Forminex Pty. Limited, 85 Old Pittwater Rd., Brookvale. 2100	71658	1986	Premise Match	76m	North
	PAINT, ENAMEL, VARNISH, STAIN MFRS. &/OR DIST.	Forminex Pty. Limited, 85 Old Pittwater Rd., Brookvale. 2100	71501	1986	Premise Match	76m	North
	PLASTIC COATING SPECIALISTS. MATERIAL.	Forminex Pty. Limited, 85 Old Pittwater Rd., Brookvale. 2100	74161	1986	Premise Match	76m	North
	FOUNDERS-FERROUS.	Peninsula Foundry Craftsmen Pty. Ltd., 81 Old Pittwater Rd., Brookvale. 2100	35237	1986	Premise Match	76m	North
	FOUNDERS-NON-FERROUS.	Peninsula Foundry Craftsmen Pty. Ltd., 81 Old Pittwater Rd., Brookvale. 2100	35292	1986	Premise Match	76m	North
	MOTOR BODY BUILDERS.	Rice, L. & D., Rear 85 Old Pittwater Rd., Brookvale. 2100	61317	1986	Premise Match	76m	North
	BOAT, LAUNCH &/OR YACHT BUILDERS &/OR REPAIRERS. (B3600)	Albatross Pty. Ltd., 87 Old Pittwater Rd., Brookvale. 2100.	7135	1982	Premise Match	76m	North
	FLOOR TREATMENT SPECIALISTS.(F4025)	Forminex Pty. Limited, 85 Old Pittwater Rd., Brookvale. 2100.	31329	1982	Premise Match	76m	North
	PAINT - INDUSTRIAL PROTECTIVE COATING. (P0400)	Forminex Pty. Limited, 85 Old Pittwater Rd., Brookvale. 2100.	62441	1982	Premise Match	76m	North
	PAINT -MARINE- MFRS. &/OR DIST. (P0600)	Forminex Pty. Limited, 85 Old Pittwater Rd., Brookvale. 2100.	62485	1982	Premise Match	76m	North
	PAINT -PLASTIC- MFRS. &/OR DIST. (P0640)	Forminex Pty. Limited, 85 Old Pittwater Rd., Brookvale. 2100.	62501	1982	Premise Match	76m	North
	PAINT, ENAMEL, VARNISH, STAIN MFRS.&/OR DIST. (P0360)	Forminex Pty. Limited, 85 Old Pittwater Rd., Brookvale. 2100.	62384	1982	Premise Match	76m	North
	PLASTIC COATING SPECIALISTS - MATERIAL. (P5660)	Forminex Pty. Limited, 85 Old Pittwater Rd., Brookvale. 2100.	64477	1982	Premise Match	76m	North
	FOUNDERS - FERROUS. (F5925)	Peninsula Foundry Craftsmen Pty. Ltd., 81 Old Pittwater Rd., Brookvale. 2100.	32849	1982	Premise Match	76m	North
	FOUNDERS - NON-FERROUS. (F5950)	Peninsula Foundry Craftsmen Pty. Ltd., 81 Old Pittwater Rd., Brookvale. 2100.	32897	1982	Premise Match	76m	North
	FOUNDERS - NON-FERROUS.	Castcraft & Staff (Brookvale) Pty. Ltd, 81 Old Pittwater Rd., Brookvale. 2100	29731	1978	Premise Match	76m	North
	FOUNDERS-FERROUS.	Castcraft & Staff (Brookvale) Pty. Ltd., 81 Old Pittwater Rd., Brookvale. 2100	29679	1978	Premise Match	76m	North
	ANTI-CORROSION COMPOUNDS MFRS.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	2624	1978	Premise Match	76m	North
	FLOOR TREATMENT SPECIALISTS.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	28378	1978	Premise Match	76m	North
	PAINT VARNISH STAIN REMOVER MFRS.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	55720	1978	Premise Match	76m	North
	PAINT, ENAMEL, VARNISH/STAIN MFRS. &/OR DIST.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	55413	1978	Premise Match	76m	North
	PAINT-INDUSTRIAL PROTECTIVE COATING.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	55470	1978	Premise Match	76m	North
	PAINT-MARINE-MFRS. &/OR DIST	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	55544	1978	Premise Match	76m	North
	PAINT-PLASTIC MFRS.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	55562	1978	Premise Match	76m	North

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15	PLASTIC COATING SPECIALISTS MATERIAL.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	57423	1978	Premise Match	76m	North
	BOAT, LAUNCH &/OR YACHT BUILDERS &/OR REPAIRERS.	Seaway Yachts Pty. Ltd., 87 Old Pittwater Rd., Brookvale. 2100	6253	1978	Premise Match	76m	North
	FOUNDERS-FERROUS.	Castcraft & Staff (Brookvale) Pty. Ltd. 81 Old Pittwater Rd., Brookvale. 2100	34344	1975	Premise Match	76m	North
	FOUNDERS-NON-FERROUS.	Castcraft & Staff (Brookvale) Pty. Ltd., 81 Old Pittwater Rd, Brookvale. 2100.	34424	1975	Premise Match	76m	North
	FOUNDERS-FERROUS.	Castcraft & Staff (Brookvale) Pty. Ltd., 81 Old Pittwater Rd, Brookvale. 2100.	34362	1975	Premise Match	76m	North
	PAINT-MARINE-MFRS. &/OR DIST.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	65430	1975	Premise Match	76m	North
	PAINT VARNISH STAIN REMOVER MFRS.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	65661	1975	Premise Match	76m	North
	PAINT, ENAMEL, VARNISH/STAIN MFRS. &/OR DIST.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	65316	1975	Premise Match	76m	North
	PAINT-INDUSTRIAL PROTECTIVE COATING.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	65362	1975	Premise Match	76m	North
	PAINT-PLASTIC MFRS.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	65447	1975	Premise Match	76m	North
	PLASTIC COATING SPECIALISTS MATERIAL	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100	67610	1975	Premise Match	76m	North
	ANTI-CORROSION COMPOUNDS MFRS.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100.	2508	1975	Premise Match	76m	North
	FLOOR TREATMENT SPECIALISTS.	Forminex Pty. Ltd., 85 Old Pittwater Rd., Brookvale. 2100.	32943	1975	Premise Match	76m	North
	BOAT, LAUNCH &/OR YACHTBUILDERS &/OR REPAIRERS.	Supersonic Yachts Pty. Ltd., 87 Old Pittwater Rd., Brookvale. 2100.	6688	1975	Premise Match	76m	North
	ANTI-CORROSION COMPOUNDS MANUFACTURERS (A395)	Forminex Pty. Ltd., 81 Old Pittwater Rd, Brookvale	261673	1970	Premise Match	76m	North
	FLOOR TREATMENT SPECIALISTS	Forminex Pty. Ltd., 81 Old Pittwater Rd., Brookvale	304210	1970	Premise Match	76m	North
	PAINT, ENAMEL, VARNISH/STAIN MANUFACTURERS (P024)	Forminex Pty. Ltd., 81 Old Pittwater Rd., Brookvale	345965	1970	Premise Match	76m	North
	PAINT, VARNISH/STAIN REMOVER MANUFACTURERS (P070)	Forminex Pty. Ltd., 81 Old Pittwater Rd., Brookvale	346463	1970	Premise Match	76m	North
	PAINT-INDUSTRIAL PROTECTIVE COATINGS (P030)	Forminex Pty. Ltd., 81 Old Pittwater Rd., Brookvale	346813	1970	Premise Match	76m	North
	PAINT-MARINE-MFRS. &/OR DISTRIBUTORS (P049)	Forminex Pty. Ltd., 81 Old Pittwater Rd., Brookvale	346866	1970	Premise Match	76m	North
	PAINT-PLASTIC-MFRS. (P050)	Forminex Pty. Ltd., 81 Old Pittwater Rd., Brookvale	346896	1970	Premise Match	76m	North
	PLASTIC COATING SPECIALISTS MATERIAL, ETC.	Forminex Pty. Ltd., 81 Old Pittwater Rd., Brookvale	349332	1970	Premise Match	76m	North
	BORING CONTRACTORS (B590)	Longyear (Aust.) Pty. Ltd., 87 Old Pittwater Rd., Brookvale, 2100	269332	1970	Premise Match	76m	North
	MINING MACHINERY & EQUIPMENT IMPORTERS, DISTRIBUTORS &/OR MANUFACTURERS	Longyear (Australia) Pty. Ltd.), 87 Old Pittwater Rd., Brookvale	331789	1970	Premise Match	76m	North
	Floor Treatment Specialists	Forminex Pty. Ltd., 81 Old Pittwater Rd., Brookvale	87557	1965	Premise Match	76m	North
	Paint - Plastic - Manufacturers	Forminex Pty. Ltd., 81 Old Pittwater Rd., Brookvale	130602	1965	Premise Match	76m	North
	Paint, Enamel, Varnish/Stain Manufacturers	Forminex Pty. Ltd., 81 Old Pittwater Rd., Brookvale	130461	1965	Premise Match	76m	North
	Paint, Varnish/Stain Remover Manufacturers	Forminex Pty. Ltd., 81 Old Pittwater Rd., Brookvale	130689	1965	Premise Match	76m	North
16	Motor Panel Beaters &/or Spray Painters	Ball, K. & S., 130 Old Pittwater Rd., Brookvale 2100	54175	1991	Premise Match	93m	South West
	Furniture Mfrs &/or W/salers General	D.P. Furniture Wholesale., 7/130 Old Pittwater Rd., Brookvale. 2100	47051	1991	Premise Match	93m	South West



Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
16	Door Mfrs &/or Dists &/or Installers	Halco Products Pty Ltd., 130 Old Pittwater Rd., Brookvale 2100	41658	1991	Premise Match	93m	South West
	Roller Shutter &/or Grille Mfrs &/or Installers	Halco Products Pty. Ltd., 130 Old Pittwater Rd Brookvale 2100	61169	1991	Premise Match	93m	South West
	Motor Panel Beaters &/or Spray Painters	Hurley Bros Pty Ltd, 130 Old Pittwater Rd., Brookvale 2100	54454	1991	Premise Match	93m	South West
	Rustproofing Specialists	Protecta-Kote, 130 Oldpittwater Rd Brookvale 2100	61376	1991	Premise Match	93m	South West
	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS.	Ball, K. & S., 130 Old Pittwater Rd., Brookvale. 2100	66082	1986	Premise Match	93m	South West
	ROLLER SHUTTER MFRS. &/OR INSTALLERS	Halco Products Pty. Ltd. 130 Old Pittwater Rd., Brookvale.2100	83550	1986	Premise Match	93m	South West
	DOOR FITTINGS-MFRS. &/OR DIST.	Halco Products Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	24566	1986	Premise Match	93m	South West
	DOOR MFRS. &/OR DIST. &/OR INSTALLERS.	Halco Products Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	24654	1986	Premise Match	93m	South West
	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS.	Hurley Bros. Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	66397	1986	Premise Match	93m	South West
	INDOOR CRICKET CENTRES.	Mike Pawley's Indoor Cricket, 130 Old Pittwater Rd., Brookvale. 2100	48043	1986	Premise Match	93m	South West
	MOTOR RUSTPROOFING SPECIALISTS.	Protecta Kote, 130 Old Pittwater Rd., Brookvale. 2100	67118	1986	Premise Match	93m	South West
	DOOR FITTINGS - MFRS. &/OR DIST. (D5700)	Halco Products Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100.	21911	1982	Premise Match	93m	South West
	DOOR MFRS. &/OR DIST. &/OR INSTALLERS, (D5805)	Halco Products Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100.	21965	1982	Premise Match	93m	South West
	ROLLER SHUTTER MFRS. &/OR DIST. (R6265)	Halco Products Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100.	72280	1982	Premise Match	93m	South West
	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. (M7360)	Hurley Bros. Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100.	58386	1982	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Kidd Engineering Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100.	57044	1982	Premise Match	93m	South West
	MOTOR ENGINEERS. (M6660)	Ormsby, F., 8/130 Old Pittwater Rd., Brookvale. 2100.	55783	1982	Premise Match	93m	South West
	STEREOPHONIC EQUIPMENT MFRS. &/OR DIST. (S6940)	Pioneer Electronics Australia Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100.	77267	1982	Premise Match	93m	South West
	DOOR FITTINGS-MFRS. &/OR DIST.	Halco Products Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	19355	1978	Premise Match	93m	South West
	DOOR MFRS. &/OR DIST. &/OR INSTALLERS.	Halco Products Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	19406	1978	Premise Match	93m	South West
	ROLLER SHUTTER MFRS. &/OR DIST.	Halco Products Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	63852	1978	Premise Match	93m	South West
	MOTOR PAINTERS.	Hurley Bros. Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	51466	1978	Premise Match	93m	South West
	MOTOR PANEL BEATERS	Hurley Bros. Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	52101	1978	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Kidd Engineering Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	50326	1978	Premise Match	93m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS	Littles Dry Cleaners, 130 Old Pittwater Rd., Brookvale. 2100	20860	1978	Premise Match	93m	South West
	LAUNDRIES &/OR LAUNDRETTES.	Littles Dry Cleaners. 130 Old Pittwater Rd., Brookvale. 2100	39803	1978	Premise Match	93m	South West
	ENGINEERS- GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Nicholls Engineering Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	25297	1978	Premise Match	93m	South West
	WELDERS-ELECTRIC &/OR OXY.	Nicholls Engineering Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	74293	1978	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ormby, F., 130 Old Pittwater Rd., Brookvale. 2100	50618	1978	Premise Match	93m	South West
	STEREOPHONIC EQUIPMENT MFRS. &/OR DIST.	Pioneer Electronics Australia Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	68474	1978	Premise Match	93m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
16	DOOR FITTINGS-MFRS. &/OR DISTS.	Halco Products Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	22314	1975	Premise Match	93m	South West
	DOOR MFRS. &/OR DISTS. &/OR INSTALLERS.	Halco Products Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	22363	1975	Premise Match	93m	South West
	METAL PRESSERS &/OR STAMPERS.	Halco Products Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	52896	1975	Premise Match	93m	South West
	MOTOR PAINTERS.	Hurley Bros. Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	60198	1975	Premise Match	93m	South West
	MOTOR PANEL BEATERS.	Hurley Bros. Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	60863	1975	Premise Match	93m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS.	Littles Dry Cleaners, 130 Old Pittwater Rd., Brookvale. 2100	24182	1975	Premise Match	93m	South West
	LAUNDRIES &/OR LAUNDRETTES.	Littles Dry Cleaners., 130 Old Pittwater Rd., Brookvale. 2100	46967	1975	Premise Match	93m	South West
	ROLLER SHUTTER MFRS.&/OR DISTS.	Malco Products Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	74569	1975	Premise Match	93m	South West
	ENGINEERS - GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Nicholls Engineering Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100.	29248	1975	Premise Match	93m	South West
	WELDERS., Electric &/OR OXY.	Nicholls Engineering Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	87015	1975	Premise Match	93m	South West
	MOTOR TRIMMERS.	Ware, J. & P., 130 Old Pittwater Rd., Brookvale. 2100	62846	1975	Premise Match	93m	South West
17	RIVET MFRS.	Mamer G. W. Fasteners Pty. Ltd., 121A Old Pittwater Rd., Brookvale. 2100	83244	1986	Premise Match	130m	South
	BOLT &/OR NUT MFRS. &/OR DISTS.	Mamer, G. W. Fasteners Pty. Ltd., 121A Old Pittwater Rd., Brookvale. 2100	6713	1986	Premise Match	130m	South
	SCREW MFRS. &/OR W/SALERS.	Maner, G. W. Fasteners Pty. Ltd., 121A Old Pittwater Rd., Brookvale. 2100	85309	1986	Premise Match	130m	South
	BOLT &/OR NUT MFRS.&/OR DISTS. (B4200)	G. W. MARNER FASTENERS PTY. LTD., 121A Old Pittwater Rd., Brookvale. 2100	7528	1982	Premise Match	130m	South
	BOLT &/OR NUT MFRS.&/OR DISTS. (B4200)	Marnar, G. W. Fasteners Pty. Ltd., 121A Old Pittwater Rd., Brookvale. 2100.	7563	1982	Premise Match	130m	South
	RIVET MFRS. (R5495)	Marnar, G. W. Fasteners Pty. Ltd., 121A Old Pittwater Rd., Brookvale. 2100.	71983	1982	Premise Match	130m	South
	SCREW MFRS. &/OR W/SALERS.(S1680)	Marnar, G. W. Fasteners Pty. Ltd., 121A Old Pittwater Rd., Brookvale. 2100.	73827	1982	Premise Match	130m	South
	BOLT &/OR NUT MFRS.&/OR DISTS.	G. W. Marnar Fasteners Pty. Ltd. 121A Old Pittwater Rd., Brookvale. 2100	6549	1978	Premise Match	130m	South
	SCFREW MFRS. &/OR W/SALERS	Mamer, G. W. Fasteners Pty. Ltd., 121a Old Pittwater Rd., Brookvale. 2100	65322	1978	Premise Match	130m	South
	RIVET MFRS.	Marnar, G. W. Fasteners Pty. Ltd. 121a Old Pittwater Rd, Brookvale. 2100	63539	1978	Premise Match	130m	South
	BOLT &/OR NUT MFRS.&/OR DISTS.	Marnar, G.W. Fasteners Pty. Ltd., 121a Old Pittwater Rd., Brookvale. 2100	6592	1978	Premise Match	130m	South
	BOLT &/OR NUT MFRS. &/OR DISTS.	G. W. Marnar Fasteners Pty. Ltd. 121A Old Pittwater Rd., Brookvale. 2100	7010	1975	Premise Match	130m	South
	SCREW MFRS. &/OR W/SALERS	Marnar, & W. Fasteners Pty. Ltd., 121a Old Pittwater Rd., Brookvale. 2100	76320	1975	Premise Match	130m	South
	BOLT &/OR NUT MFRS. &/OR DISTS.	Marnar, G. W. Fasteners Pty. Ltd., 121a Old Pittwater Rd, Brookvale. 2100.	7056	1975	Premise Match	130m	South
	RIVET MFRS.	Marnar, G. W. Fasteners Pty. Ltd., 121a Old Pittwater Rd., Brookvale. 2100	74243	1975	Premise Match	130m	South

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
18	Fishing Tackle Mfrs &/or Imps &/or Dists	Dalwa Australia Pty. Limited., 140 Old Pittwater Rd., Brookvale 2100	45857	1991	Premise Match	133m	South West
	Fire Fighting Systems &/or Appliance Mfrs &/or Installers	Fire Control Pty Ltd., 140 Old Pittwater Rd., Brookvale 2100	45760	1991	Premise Match	133m	South West
	Fire Fighting Systems &/or Appliance Mfrs &/or Installers	Simplex Intl Time Equipment Pty Ltd, Unit G/140 Old Pittwater Rd., Brookvale 2100	45786	1991	Premise Match	133m	South West
	BOOKSELLERS-WHOLESALE.	Colorcode Book Discounts, 140 Old Pittwater Rd., Brookvale. 2100	7284	1986	Premise Match	133m	South West

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## Business Directory Records 1950-1991

### Road or Area Matches

Universal Business Directory records 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
19	DRESS FABRIC RETAILERS. (D7150)	Lincraft Fabrics, Shop 4, Old Pittwater Rd., Brookvale. 2100.	22371	1982	Road Match	0m
	SEWING MACHINE SALES &/ORSERVICE. (S2280)	Lincraft Fabrics, Shop 4, Old Pittwater Rd., Brookvale. 2100.	74149	1982	Road Match	0m
	SEWING MACHINE SALES &/ORSERVICE. (S2280)	Lincraft Fabrics, Shop 4, Old Pittwater Rd., Brookvale. 2100.	74150	1982	Road Match	0m
	PRAM & STROLLER MFRS. &/OR DISTS. &/OR REPAIRS. (P7850)	Pram City, Old Pittwater Rd., Brookvale. 2100.	65804	1982	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT-MFRS.&/OR DISTS.	Camera Distributors Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	56748	1978	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT-MFRS.&/OR DISTS.	Fotek Corporation Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	56755	1978	Road Match	0m
	OFFICE EQUIPMENT MFRS. &/OR DISTS.	Hanimex Pty. Ltd, Old Pittwater Rd, Brookvale 2100	54565	1978	Road Match	0m
	RECORDING EQUIPMENT MFRS. &/OR IMPS. &/OR DISTS.	Hanimex Pty. Ltd, Old Pittwater Rd, Brookvale. 2100	62482	1978	Road Match	0m
	X-RAY MEDICAL &/OR INDUSTRIAL APPARATUS MFRS. &/OR DISTS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale 2100	75403	1978	Road Match	0m
	ADDING & CALCULATING MACHINE MFRS. &/OR IMPS. &/OR DISTS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	1043	1978	Road Match	0m
	BEACH EQUIPMENT MFRS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	4619	1978	Road Match	0m
	COPYING MACHINES MFRS. &/OR DISTS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	16363	1978	Road Match	0m
	CYCLE ACCESSORIES MFRS. &/OR W/SALERS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	17021	1978	Road Match	0m
	CYCLE MFRS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	17079	1978	Road Match	0m
	DUPLICATING MACHINE MFRS. &/OR IMPS. &/OR DISTS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	21032	1978	Road Match	0m
	ELECTRIC FAN MFRS. &/OR DISTS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	21642	1978	Road Match	0m
	ELECTRIC LAMP (BED, DESK, STANDARD ETC.) MFRS &/OR DISTS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	21738	1978	Road Match	0m
	EXPORTERS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	26883	1978	Road Match	0m
	FILM EQUIP MFRS	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	27497	1978	Road Match	0m
	FILM EQUIPMENT IMPS. &/OR DISTS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	27488	1978	Road Match	0m
	FILM PROJECTOR MFRS. &/OR DISTS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	27576	1978	Road Match	0m
	IMPORTERS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	36900	1978	Road Match	0m
	MICROFILM SERVICES.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	45780	1978	Road Match	0m
	PHOTO-COPYING EQUIPMENT MFRS.&/OR DISTS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	56423	1978	Road Match	0m
	PHOTOGRAPHIC DEVELOPING, PRINTING &/OR COLOURING SERVICES.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	56690	1978	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
19	PHOTOGRAPHIC EQUIPMENT DEALERS &/OR IMPS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	56722	1978	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT-MFRS.&/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	56758	1978	Road Match	0m
	PHOTOGRAPHIC SUPPLIES.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	56817	1978	Road Match	0m
	PICTURE THEATRE EQUIPMENT &/OR SUPPLIES.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	57069	1978	Road Match	0m
	RADIO &/OR TELEVISION DIST. -W/SALE.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	61017	1978	Road Match	0m
	ROOM HEATERS-ELECTRIC-MFRS, &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	63959	1978	Road Match	0m
	SCHOOL SUPPLIES MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	64850	1978	Road Match	0m
	SPEARFISHING &/OR UNDERWATER EQUIPMENT.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	66727	1978	Road Match	0m
	SPORTS GOODS MFRS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	66790	1978	Road Match	0m
	STEREOPHONIC EQUIPMENT MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	68461	1978	Road Match	0m
	SURFING EQUIPMENT MFRS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	68743	1978	Road Match	0m
	KNITTED GOODS MFRS. &/OR KNITTING MILLS.	Knit Fabric Centre, Shop 4, Old Pittwater Rd., Brookvale. 2100	39397	1978	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT-MFRS. &/OR DIST.	Camera Distributors Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	66893	1975	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT-MFRS. &/OR DIST.	Fotek Corporation Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	66899	1975	Road Match	0m
	RADIO &/OR TELEVISION DIST. W/SALE.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	71520	1975	Road Match	0m
	STEREOPHONIC EQUIP MFRS &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd. Brookvale. 2100	80908	1975	Road Match	0m
	PHOTOGRAPHIC DEVELOPING, PRINTING &/OR COLOURING SERVICES.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale 2100	66818	1975	Road Match	0m
	COPYING MACHINES MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	18950	1975	Road Match	0m
	DUPLICATING MACHINE MFRS. &/OR IMPS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	24476	1975	Road Match	0m
	ELECTRIC LAMP (BED, DESK, STANDARD ETC.) MFRS &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	25297	1975	Road Match	0m
	IMPORTERS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	43702	1975	Road Match	0m
	MICROFILM SERVICES.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	53152	1975	Road Match	0m
	OFFICE EQUIPMENT MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	64382	1975	Road Match	0m
	PHOTO-COPYING EQUIPMENT MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	66462	1975	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT DEALERS &/OR IMPS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	66858	1975	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT-MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	66904	1975	Road Match	0m
	PHOTOGRAPHIC SUPPLIES.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	66971	1975	Road Match	0m
	PICTURE THEATRE EQUIPMENT &/OR SUPPLIES.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	67179	1975	Road Match	0m
	RECORDING EQUIPMENT MFRS. &/OR IMPS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	73218	1975	Road Match	0m
	ROOM HEATERS-ELECTRIC-MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	74686	1975	Road Match	0m
	RUBBER FOOTWEAR MFRS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	74762	1975	Road Match	0m
	SAFETY EQUIPMENT MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	75130	1975	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
19	SCHOOL SUPPLIES MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	75855	1975	Road Match	0m
	SPEARFISHING &/OR UNDERWATER EQUIPMENT.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	78883	1975	Road Match	0m
	SPORTS GOODS MFRS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	78955	1975	Road Match	0m
	TOY IMPS. &/ORW/SALERS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	84480	1975	Road Match	0m
	TRAVEL GOODS MFRS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	85179	1975	Road Match	0m
	ADDING & CALCULATING MACHINE MFRS. &/OR IMPS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100.	767	1975	Road Match	0m
	BEACH EQUIPMENT MFRS	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100.	4841	1975	Road Match	0m
	EXPORTERS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100.	31040	1975	Road Match	0m
	FILM EQUIP MFRS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100.	31697	1975	Road Match	0m
	FILM EQUIPMENT IMPS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100.	31684	1975	Road Match	0m
	FILM PROJECTOR MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100.	31783	1975	Road Match	0m
	SURFING EQUIPMENT MFRS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100.	81288	1975	Road Match	0m
	ELECTRIC FAN MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	25184	1975	Road Match	0m
	LEATHER GOODS MFRS. &/OR W/SALERS.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	47245	1975	Road Match	0m
	AIR COMPRESSOR MFRS. &/OR DIST.	Sullair Australia Limited Clearview Place, Old Pittwater Road, Brookvale. 2100	1535	1975	Road Match	0m
	STATIONERS-WHOLESALE	Vale Press Pty. Ltd., Old Pittwater Rd, Brookvale. 2100	80307	1975	Road Match	0m
	PRINTERS-LETTERPRESS.	Vale Press Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	69704	1975	Road Match	0m
	PRINTERS-LITHOGRAPHIC (OFFSET).	Vale Press Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	70114	1975	Road Match	0m
	OFFICE EQUIPMENT MFRS. &/OR DIST.	Valroy Stationers Pty. Ltd., Old Pittwater Rd., Brookvale. 2010	64435	1975	Road Match	0m
	STATIONERS-RETAIL	Valroy Stationers Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	80202	1975	Road Match	0m
	STATIONERS-WHOLESALE	Valroy Stationers Pty. Ltd., Old Pittwater Rd., Brookvale. 2100	80308	1975	Road Match	0m
	GIFT SHOPS (G180)	Art & Giftwares., Old Pittwater Rd., Brookvale, 2100	310671	1970	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT MFRS. &/OR DIST. (P294)	Camera Distributors Pty. Ltd., Old Pittwater Rd., Brookvale	348264	1970	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT MFRS. &/OR DIST. (P294)	Fotek Corp. Pty. Ltd., Old Pittwater Rd., Brookvale	348271	1970	Road Match	0m
	DOOR MANUFACTURERS (D480)	Halco Products Pty. Ltd., Old Pittwater Rd., Brookvale	290133	1970	Road Match	0m
	METAL PRESSERS/STAMPERS (M268)	Halco Products Pty. Ltd., Old Pittwater Rd., Brookvale	329945	1970	Road Match	0m
	ADDING &/OR CALCULATING MACHINE MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	259653	1970	Road Match	0m
	CHEMISTS' SUPPLIERS & SUNDRYMEN (C289)	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	279650	1970	Road Match	0m
	COPYING MACHINES-MFRS. &/OR DIST. (C672)	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	285839	1970	Road Match	0m
	EXPORTERS (E835)	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	301640	1970	Road Match	0m
	IMPORTERS (I200)	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	318365	1970	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT MFRS. &/OR DIST. (P294)	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	348277	1970	Road Match	0m
	PHOTOGRAPHIC SUPPLIES (P300)	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	348349	1970	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
19	PHOTOGRAPHIC/MOVIE CAMERA REPAIRS (P296)	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	348417	1970	Road Match	0m
	PICTURE THEATRE EQUIPMENT &/OR SUPPLIES (P348)	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	348801	1970	Road Match	0m
	RECORDING EQUIPMENT MFRS., IMPORTS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	356354	1970	Road Match	0m
	ROOM HEATERS-ELECTRIC-MFRS. &/OR DIST. (R420)	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	357913	1970	Road Match	0m
	OFFICE EQUIPMENT MFRS./DISTRIBUTORS	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale.	344690	1970	Road Match	0m
	PHOTO COPYING EQUIPMENT MFRS. &/OR DIST. (P253)	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale.	347681	1970	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT DEALERS &/OR IMPORTERS (P292)	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale.	348219	1970	Road Match	0m
	ELECTRIC FAN MANUFACTURERS &/OR DISTRIBUTORS (E105)	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	293586	1970	Road Match	0m
	PRINTERS-LETTERPRESS (P806)	Vale Press Pty. Ltd., Old Pittwater Rd., Brookvale	352395	1970	Road Match	0m
	STATIONERS-WHOLESALE (S519)	Vale Press Pty. Ltd., Old Pittwater Rd., Brookvale, 2100	364967	1970	Road Match	0m
	Photographic Equipment Manufacturers &/or Distributors	Fotex Corporation Pty. Ltd., Old Pittwater Rd., Brookvale	132658	1965	Road Match	0m
	Door Manufacturers	Halco Products Pty. Ltd., Old Pittwater Rd., Brookvale	74781	1965	Road Match	0m
	Metal Pressers/Stampers	Halco Products Pty. Ltd., Old Pittwater Rd., Brookvale	114438	1965	Road Match	0m
	Photographic Equipment Dealers &/or Importers	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	132606	1965	Road Match	0m
	Camera Manufacturers	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	61710	1965	Road Match	0m
	Chemists' Suppliers & Sundrymen	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	65810	1965	Road Match	0m
	Exporters	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	85009	1965	Road Match	0m
	Importers	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	102590	1965	Road Match	0m
	Merchants/Importers	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	113772	1965	Road Match	0m
	Photographic Equipment Manufacturers &/or Distributors	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	132661	1965	Road Match	0m
	Photographic Supplies	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	132743	1965	Road Match	0m
	Photographic/Movie Camera Repairs	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	132696	1965	Road Match	0m
	Picture Theatre Equipment &/or Supplies	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	133139	1965	Road Match	0m
	TOILET PREPARATIONS MFRS.	Innox (England) Ltd., Old Pittwater Rd., Brookvale	152309	1965	Road Match	0m
	Builders & Contractors - (M.M.B.A.)	Miles, R. C. "Gumbooya", Old Pittwater Rd. Brookvale	54559	1965	Road Match	0m
	Bitumen & Bituminous Products	Reely, T. S., Old Pittwater Rd., Brookvale	51595	1965	Road Match	0m
	Bitumen Tar, Oils & Paint Mfrs.	Reely, T. S., Old Pittwater Rd., Brookvale	51626	1965	Road Match	0m
	Printers - Letterpress	Vale Press Pty. Ltd., Old Pittwater Rd., Brookvale	136359	1965	Road Match	0m
	ROOFING-BITUMINOUS & DAMPCOURSE	Beely T.S., Old Pittwater Rd., Brookvale	246727	1961	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT MFRS. &/OR DIST.	Fotek Corporation Pty. Ltd., Old Pittwater Rd., Brookvale	357925	1961	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT DEALERS &/OR IMPORTERS	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	357885	1961	Road Match	0m
	IMPORTERS	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	326380	1961	Road Match	0m
	BUILDERS & CONTRACTORS-(M.M.B.A.)	Miles, R. C. "Gumbooya", Old Pittwater Rd BROOKVALE	277421	1961	Road Match	0m

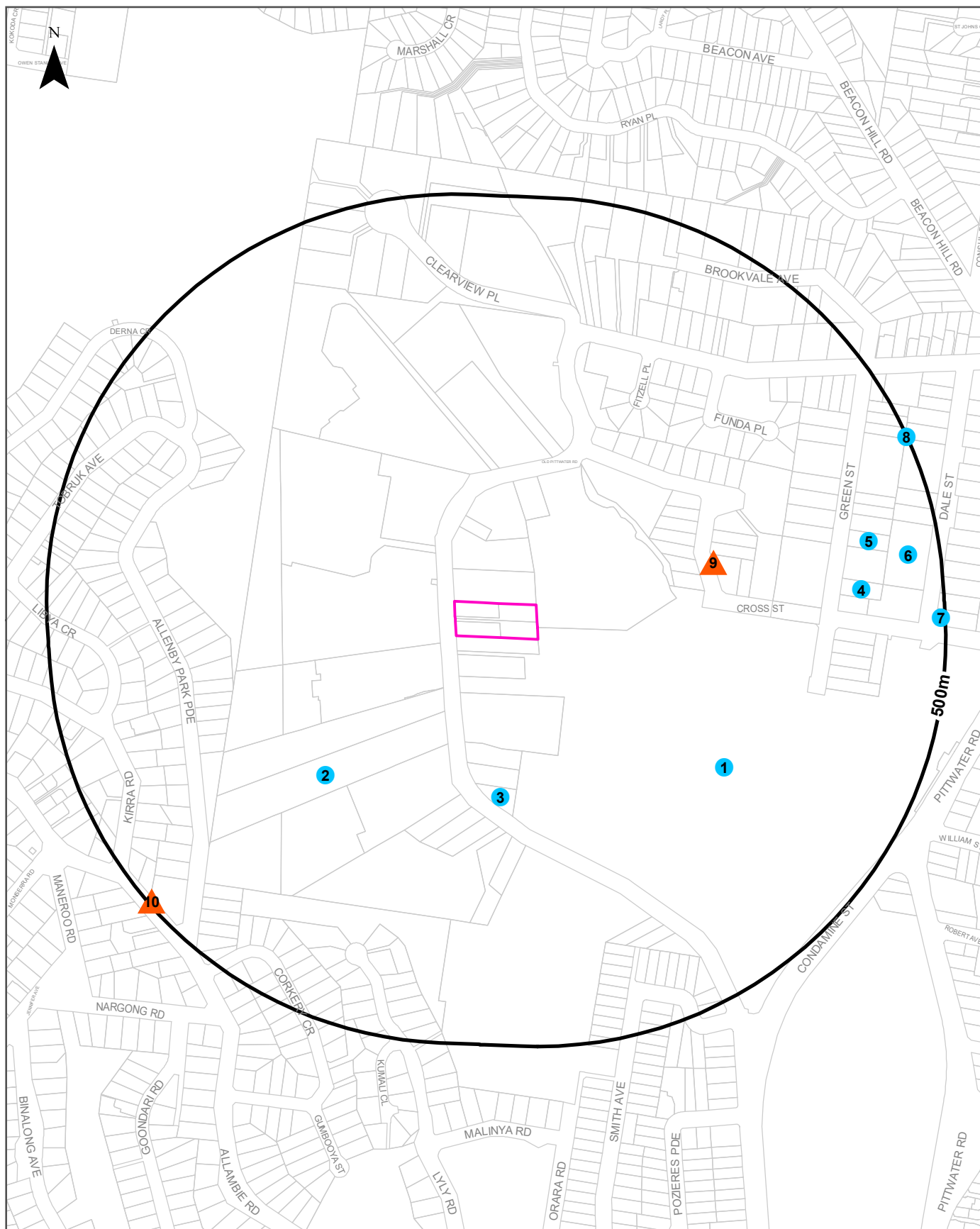


Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
19	BITUMEN & BITUMINOUS PRODUCTS	Reely, T. S., Old Pittwater Rd., Brookvale	273156	1961	Road Match	0m
	ROOFING MATERIAL MFRS. &/OR DISTRIBUTORS	Reely, T. S., Old Pittwater Rd., Brookvale	246708	1961	Road Match	0m
	ELECTRICAL CONTRACTORS &/OR ELECTRICIANS	Stacey, K., Old Pittwater Rd., Brookvale	37889	1950	Road Match	0m
	POULTRY FARMERS	Stevens, A. E., Old Pittwater Rd., Brookvale	94295	1950	Road Match	0m
20	Manufacturers' Agents	Hanimex Pty. Ltd., 186 Old Pittwater Rd., Brookvale	109557	1965	Road Match	0m
	Chemists - Industrial	Waratah Chemicals Pty. Ltd., 418 Old Pittwater Rd., Brookvale	64432	1965	Road Match	0m
	Resin Producers &/Or Distributors	Waratah Chemicals Pty., Ltd., 418 Old Pittwater Rd., Brookvale	140311	1965	Road Match	0m
	MERCHANTS/IMPORTERS	Hanimex Pty. Ltd, Old Pittwater Rd., Brookvale	337449	1961	Road Match	0m
	PHOTOGRAPHIC EQUIPMENT MFRS. &/OR DIST.	Hanimex Pty. Ltd., Old Pittwater Rd., Brookvale	357929	1961	Road Match	0m

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# Dry Cleaners, Motor Garages & Service Stations

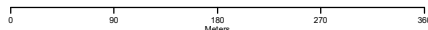
99-105 Old Pittwater Road, Brookvale, NSW 2100



## Legend

- Site Boundary
- Buffer 500m
- 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:



Coordinate System:  
GDA 1994 MGA Zone 56

Date: 14 January 2022

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

# Historical Business Directories

99-105 Old Pittwater Road, Brookvale, NSW 2100

## 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
1	DRY CLEANERS & PRESSERS.	P.Jays, Warringah Mall, Brookvale. 2100	53239	1988	Premise Match	0m	South East
	DRY CLEANERS & PRESSERS.	P.Jays, Warringah Mall, Brookvale. 2100	25469	1986	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Warringah Mall Service Station, 21 Green St., Brookvale. 2100	28391	1984	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Warringah Mall Service Station., 21 Green St., Brookvale. 2100	14814	1983	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Golden Fleece Warringah Mall Service Station, 21 Green St., Brookvale. 2100.	56877	1982	Premise Match	0m	South East
	DRY CLEANERS & PRESSERS.(D8500)	Morrisons Dry Cleaners, 8 Warringah Mall, Brookvale. 2100.	23981	1982	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Warringah Mall Service Station., 21 Green St., Brookvale 2100	3435	1981	Premise Match	0m	South East
	DRY CLEANERS & PRESSERS.	Morrisons Dry Cleaners., 8 Warringah Mall., Brookvale. 2100	63468	1981	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Warringah Mall Service Station., 21 Green St., Brookvale. 2100	58166	1980	Premise Match	0m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Morrisons Dry Cleaners., 8 Warringah Mall., Brookvale. 2100	49945	1980	Premise Match	0m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Cassons Dry Cleaners., 8 Warringah Mall., Brookvale. 2100.	35301	1979	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Warringah Mall., Warringah Mall., Brookvale. 2100.	41637	1979	Premise Match	0m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS	Cassons Dry Cleaners, 8 Warringah Mall, Brookvale. 2100	20729	1978	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Warringah Mall, Warringah Mall, Brookvale. 2100	50177	1978	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Service Station Warringah Mall, Brookvale 2100	30116	1976	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Warringah Mall, Warringah Mall, Brookvale 2100	30174	1976	Premise Match	0m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	DRY CLEANERS, PRESSERS &/OR DYERS.	Wyns Dry Cleaning Pty. Ltd., Warringah Mall, Brookvale. 2100	23905	1976	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Golden Fleece Service Station., Warringah Mall., Brookvale. 2100	58946	1975	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Squires. W Service Station., Warringah Mall., Brookvale. 2100	59573	1975	Premise Match	0m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Wyns Dry Cleaning Pty. Ltd., Warringah Mall, Brookvale. 2100	24429	1975	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Cropper S. Service Station., Warringah Mall, Brookvale 2100	7665	1972	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Golden Fleece Service Station., Warringah Mall Pittwater Rd Brookvale	7670	1972	Premise Match	0m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Golden Fleece Service Station., Warringah Mall Pittwater Rd Brookvale	56422	1971	Premise Match	0m	South East
	MOTOR GARAGES & ENGINEERS(M6S6)	Golden Fleece Service Station., Warringah Mall, Pittwater Rd., BROOKVALE	337912	1970	Premise Match	0m	South East
	MOTOR GARAGES & ENGINEERS.	Golden Fleece Service Station., Warringah Mall Pittwater Rd Brookvale	37695	1969	Premise Match	0m	South East
	MOTOR GARAGES & ENGINEERS	Golden Fleece Service Station., Warringah Mall Pittwater Rd Brookvale	21127	1968	Premise Match	0m	South East
	MOTOR GARAGES & ENGINEERS.	Golden Fleece Service Station., Warringah Mall Pittwater Rd Brookvale	6697	1967	Premise Match	0m	South East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Golden Fleece Brookvale Service Station., 473 Pittwater Rd Brookvale	1054	1966	Premise Match	0m	South East
	MOTOR GARAGES & ENGINEERS.	Golden Fleece Service Station., Warringah Mall Pittwater Rd Brookvale	55739	1966	Premise Match	0m	South East
	Motor Service Stations - Petrol, Oil, Etc.	Golden Fleece Brookvale Service Station, 473 Pittwater Rd. Brookvale	125507	1965	Premise Match	0m	South East
	Motor Garages & Engineers	Golden Fleece Service Station, Warringah Mall, Pittwater Rd. Brookvale	122313	1965	Premise Match	0m	South East
	MOTOR GARAGES & ENGINEERS	Golden Fleece Brookvale Service Station., 459 Pittwater Rd Brookvale	43509	1964	Premise Match	0m	South East
	MOTOR GARAGES & ENGINEERS	Golden Fleece Service Station., Warringah Mall., Brookvale	43510	1964	Premise Match	0m	South East
	MOTOR GARAGES & ENGINEERS.	Golden Fleece Brookvale Service Station., 459 Pittwater Rd Brookvale	29005	1962	Premise Match	0m	South East
2	MOTOR GARAGES & SERVICE STATIONS.	Po H Car Repairs Pty Ltd., Unit 7/130 Old Pittwater Rd., Brookvale. 2100	19209	1993	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Kidd Engineering Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	28546	1984	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Kidd Engineering Pty. Ltd., 130 Old Pittwater Rd., Brookvale 2100	14975	1983	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Kidd Engineering Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100.	57044	1982	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Kidd Engineering Pty Ltd., 130 Old Pittwater Rd., Brookvale 2100	3595	1981	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Kidd Engineering Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	58327	1980	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Kidd Engineering Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100.	41790	1979	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Kidd Engineering Pty. Ltd., 130 Old Pittwater Rd., Brookvale. 2100	50326	1978	Premise Match	93m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
2	DRY CLEANERS, PRESSERS &/OR DYERS	Little's Dry Cleaners, 130 Old Pittwater Rd., Brookvale. 2100	20860	1978	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Ormbly. F., 130 Old Pittwater Rd., Brookvale. 2100	50618	1978	Premise Match	93m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS.	Little's Dry Cleaners., 130 Old Pittwater Rd., Brookvale 2100	23657	1976	Premise Match	93m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS.	Little's Dry Cleaners, 130 Old Pittwater Rd., Brookvale. 2100	24182	1975	Premise Match	93m	South West
3	DRY CLEANERS & PRESSERS.	Little's Dry Cleaners, 123 Old Pittwater Rd., Brookvale. 2100	53187	1988	Premise Match	180m	South
	DRY CLEANERS & PRESSERS.	Little's Dry Cleaners, 123 Old Pittwater Rd., Brookvale. 2100	25415	1986	Premise Match	180m	South
	DRY CLEANERS & PRESSERS.	Little's Dry Cleaners, 123 Old Pittwater Rd., Brookvale. 2100	34633	1985	Premise Match	180m	South
	DRY CLEANERS & PRESSERS.	Little's Dry Cleaners, 123 Old Pittwater Rd., Brookvale. 2100	22079	1984	Premise Match	180m	South
	DRY CLEANERS & PRESSERS.	Little's Dry Cleaners., 123 Old Pittwater Rd., Brookvale 2100	8671	1983	Premise Match	180m	South
	DRY CLEANERS & PRESSERS.(D8500)	Little's Dry Cleaners, 123 Old Pittwater Rd., Brookvale. 2100.	23942	1982	Premise Match	180m	South
	DRY CLEANERS & PRESSERS.	Little's Dry Cleaners., 123 Old Pittwater Rd., Brookvale. 2100	63430	1981	Premise Match	180m	South
	DRY CLEANERS, PRESSERS &/OR DYERS.	Little's Dry Cleaners., 123 Old Pittwater Rd., Brookvale. 2100	46858	1980	Premise Match	180m	South
	DRY CLEANERS, PRESSERS &/OR DYERS.	Little's Dry Cleaners., 123 Old Pittwater Rd., Brookvale. 2100.	35451	1979	Premise Match	180m	South
4	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Caldwell, A. D. Auto Care, 24 Green St., Brookvale. 2100.	56381	1982	Premise Match	373m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Richard's Autos Pty. Ltd., 24 Green St., Brookvale. 2100.	57457	1982	Premise Match	373m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Caldwell, A. D. Auto Care., 24 Green St., Brookvale. 2100	64056	1981	Premise Match	373m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Richard's Autos Pty. Ltd., 24 Green St., Brookvale 2100	3998	1981	Premise Match	373m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Richard's Autos Pty. Ltd., 24 Green St., Brookvale. 2100	58737	1980	Premise Match	373m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Richard's Autos Pty. Ltd., 24 Green St., Brookvale. 2100.	46234	1979	Premise Match	373m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Richard's Autos (Spares) Pty. Ltd., 24 Green St., Brookvale. 2100	50739	1978	Premise Match	373m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Richard's Autos (Spares) Pty Ltd., 24 Green St., Brookvale 2100	34807	1976	Premise Match	373m	East
	MOTOR GARAGES &/OR ENGINEERS.	Richard's Autos (Spares) Pty. Ltd., 24 Green St., Brookvale. 2100	59461	1975	Premise Match	373m	East
	MOTOR GARAGES &/OR ENGINEERS.	Richard's Autos (Spares) Pty. Ltd., 24 Green St Brookvale	7677	1972	Premise Match	373m	East
	MOTOR GARAGES &/OR ENGINEERS.	Richard's Autos (Spares) Pty. Ltd., 24 Green St Brookvale	56431	1971	Premise Match	373m	East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
5	MOTOR GARAGES & SERVICE STATIONS.	Berriman Frank G. Pty. Ltd., 18 Green St., Brookvale. 2100	5985	1990	Premise Match	389m	East
	MOTOR GARAGE & SERVICE STATIONS.	Berriman F. G. Pty. Ltd., 18 Green St., Brookvale. 2100	64481	1989	Premise Match	389m	East
	MOTOR GARAGES & SERVICE STATIONS.	Berriman F. G. Pty. Ltd., 18 Green St., Brookvale. 2100	53589	1988	Premise Match	389m	East
	MOTOR GARAGES & SERVICE STATIONS.	Berriman, F. G Pty. Ltd., 18 Green St., Brookvale. 2100	64043	1986	Premise Match	389m	East
	MOTOR GARAGES & SERVICE STATIONS.	Martens, E G M, 18 Green St., Brookvale. 2100	65052	1986	Premise Match	389m	East
	MOTOR GARAGES & SERVICE STATIONS.	Berriman F. G. Pty. Ltd., 18 Green St., Brookvale. 2100	39059	1985	Premise Match	389m	East
	MOTOR GARAGES & SERVICE STATIONS.	Martens E. G. M., 18 Green St., Brookvale. 2100	45154	1985	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Berriman F. G. Pty. Ltd., 18 Green St., Brookvale. 2100	27667	1984	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Martens E G M., 18 Green St., Brookvale. 2100	33733	1984	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Berriman F. G. Pty Ltd., 18 Green St., Brookvale 2100	9026	1983	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Martens. E. G. M., 18 Green St., Brookvale 2100	15082	1983	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS. (M6860)	Berriman, F. G. Pty. Ltd., 18 Green St., Brookvale. 2100.	56118	1982	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS. (M6860)	Martens, E. G. M., 18 Green St., Brookvale. 2100.	57152	1982	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Berriman, F. G. Pty. Ltd., 18 Green St., Brookvale. 2100	63791	1981	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Martens E. G. M., 18 Green St., Brookvale 2100	3718	1981	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Berriman, F. G. Pty. Ltd., 18 Green St., Brookvale. 2100	50266	1980	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Martens, E. G. M., 18 Green St., Brookvale. 2100	58453	1980	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Berriman F. G. Pty. Ltd., 18 Green St., Brookvale. 2100.	40894	1979	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Martens E. G. M., 18 Green St., Brookvale. 2100.	45935	1979	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Berriman, F. G. Pty. Ltd., 18 Green St., Brookvale. 2100	49409	1978	Premise Match	389m	East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Martens, E. G. M., 18 Green St., Brookvale. 2100	50444	1978	Premise Match	389m	East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
5	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Berriman F. G. Pty. Ltd., 18 Green St., Brookvale 2100	25122	1976	Premise Match	389m	East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Martens E. G. M., 18 Green St., Brookvale 2100	30437	1976	Premise Match	389m	East
	MOTOR GARAGES &/OR ENGINEERS.	Berriman. F G. Pty: Ltd., 18 Green St., Brookvale. 2100	58435	1975	Premise Match	389m	East
	MOTOR GARAGES &/OR ENGINEERS.	Martens, E. G. M., 18 Green St., Brookvale. 2100	59206	1975	Premise Match	389m	East
	MOTOR GARAGES &/OR ENGINEERS.	Martens M., 18 Green St Brookvale	7672	1972	Premise Match	389m	East
	MOTOR GARAGES &/OR ENGINEERS.	Martens M., 18 Green St Brookvale	56424	1971	Premise Match	389m	East
6	MOTOR GARAGES &/OR ENGINEERS.	Brown M. Motors., 12 Dale St Brookvale	7661	1972	Premise Match	426m	East
	MOTOR GARAGES &/OR ENGINEERS.	Brown M. Motors., 12 Dale St Brookvale	56414	1971	Premise Match	426m	East
7	DRY CLEANERS, PRESSERS &/OR DYERS.	Austwest Laundry Distributors Pty. Ltd., 1 Dale St Brookvale	2774	1972	Premise Match	487m	East
	DRY CLEANERS, PRESSERS &/OR DYERS	Austwest Laundry Distributors Pty. Ltd., 1 Dale St., Brookvale	50921	1971	Premise Match	487m	East
	DRY CLEANERS,PRESSERS /DYERS (D710)	Austwest Laundry Distributors Pty. Ltd., 1 Dale St., Brookvale	292192	1970	Premise Match	487m	East
	DRY CLEANERS, PRESSERS/ DYERS	Austwest Laundry Distributors Pty. Ltd., 1 Dale St., Brookvale	37002	1969	Premise Match	487m	East
	DRY CLEANERS, PRESSERS/DYERS	Austwest Laundry Distributors Pty. Ltd., 1 Dale St., Brookvale	20467	1968	Premise Match	487m	East
	DRY CLEANERS, PRESSERS/ DYERS	Austwest Laundry Distributors Pty. Ltd., 1 Dale St Brookvale	1973	1967	Premise Match	487m	East
	DRY CLEANERS, PRESSERS/ DYERS	Austwest Laundry Distributors Pty. Ltd., 1 Dale St., Brookvale	52558	1966	Premise Match	487m	East
8	MOTOR GARAGES & SERVICE STATIONS.	Kramer, Peter Automotive, 24 Dale St., Brookvale. 2100	64964	1986	Premise Match	497m	North East

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

### Road or Area Matches

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

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

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
9	MOTOR GARAGES & SERVICE STATIONS.	Beaurepaires For Tyres, Cross St., Brookvale. 2100	5973	1990	Road Match	190m
	MOTOR GARAGE & SERVICE STATIONS.	Beaurepaires For Tyres, Cross St., Brookvale. 2100	64470	1989	Road Match	190m
	MOTOR GARAGES & SERVICE STATIONS.	Beaurepaires For Tyres, Cross St., Brookvale. 2100	53574	1988	Road Match	190m
	MOTOR GARAGES & SERVICE STATIONS.	Beaurepaires For Tyres, Cross St., Brookvale. 2100	64025	1986	Road Match	190m
	MOTOR GARAGES &/OR ENGINEERS.	V.W. Service Station., 1 Cross St Brookvale	7686	1972	Road Match	190m
	MOTOR GARAGES &/OR ENGINEERS.	V.W. Service Station., 1 Cross St Brookvale	56439	1971	Road Match	190m
10	DRY CLEANERS & PRESSERS.	Allambie Dry Cleaners, Shopping Center, Allambie Rd., Allambie Heights. 2100	52983	1988	Road Match	492m
	DRY CLEANERS & PRESSERS.	Elite Dry Cleaners Shopping Centre, Allambie Rd., Allambie Heights. 2100	34508	1985	Road Match	492m
	DRY CLEANERS & PRESSERS.	Elite Dry Cleaners, Shopping Centre., Allambie Rd., Allambie Heights. 2100	63302	1981	Road Match	492m
	DRY CLEANERS, PRESSERS &/OR DYERS.	Elite Dry Cleaners, Shopping Centre., Allambie Rd., Allambie Heights. 2100	46734	1980	Road Match	492m
	DRY CLEANERS, PRESSERS &/OR DYERS.	Elite Dry Cleaners Shopping Centre., Allambie Rd., Allambie Heights. 2100.	35331	1979	Road Match	492m
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	BP Allambie Heights Service Station., Allambie Rd., ALLAMBIE HEIGHTS	340867	1970	Road Match	492m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	BP Allambie Heights Service Station., Allambie Rd., Allambie Heights	47419	1969	Road Match	492m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	BP Allambie Heights Service Station., Allambie Rd., Allambie Heights	30844	1968	Road Match	492m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	BP Allambie Heights Service Station., Allambie Rd	15323	1967	Road Match	492m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	BP Allambie Heights Service Station., Allambie Rd	60989	1966	Road Match	492m

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# Aerial Imagery 2021

99-105 Old Pittwater Road, Brookvale, NSW 2100





# Aerial Imagery 2016

99-105 Old Pittwater Road, Brookvale, NSW 2100



Scale:  
0 25 50 75 100  
Meters

Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 14 January 2022





# Aerial Imagery 2011

99-105 Old Pittwater Road, Brookvale, NSW 2100



## Legend

-  Site Boundary
-  Buffer 150m

Scale:  
0 25 50 75 100  
Meters

Data Source Aerial Imagery:  
© Aerometrex Pty Ltd

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 14 January 2022



# Aerial Imagery 2005

99-105 Old Pittwater Road, Brookvale, NSW 2100





Aerial Imagery 2000

99-105 Old Pittwater Road, Brookvale, NSW 2100



Scale: 0 25 50 75 100 Meters	Data Source Aerial Imagery: © Aerometrex Pty Ltd	Coordinate System: GDA 1994 MGA Zone 56	Date: 14 January 2022
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Aerial Imagery 1994

99-105 Old Pittwater Road, Brookvale, NSW 2100





Aerial Imagery 1991

99-105 Old Pittwater Road, Brookvale, NSW 2100





Aerial Imagery 1986

99-105 Old Pittwater Road, Brookvale, NSW 2100





Aerial Imagery 1982

99-105 Old Pittwater Road, Brookvale, NSW 2100

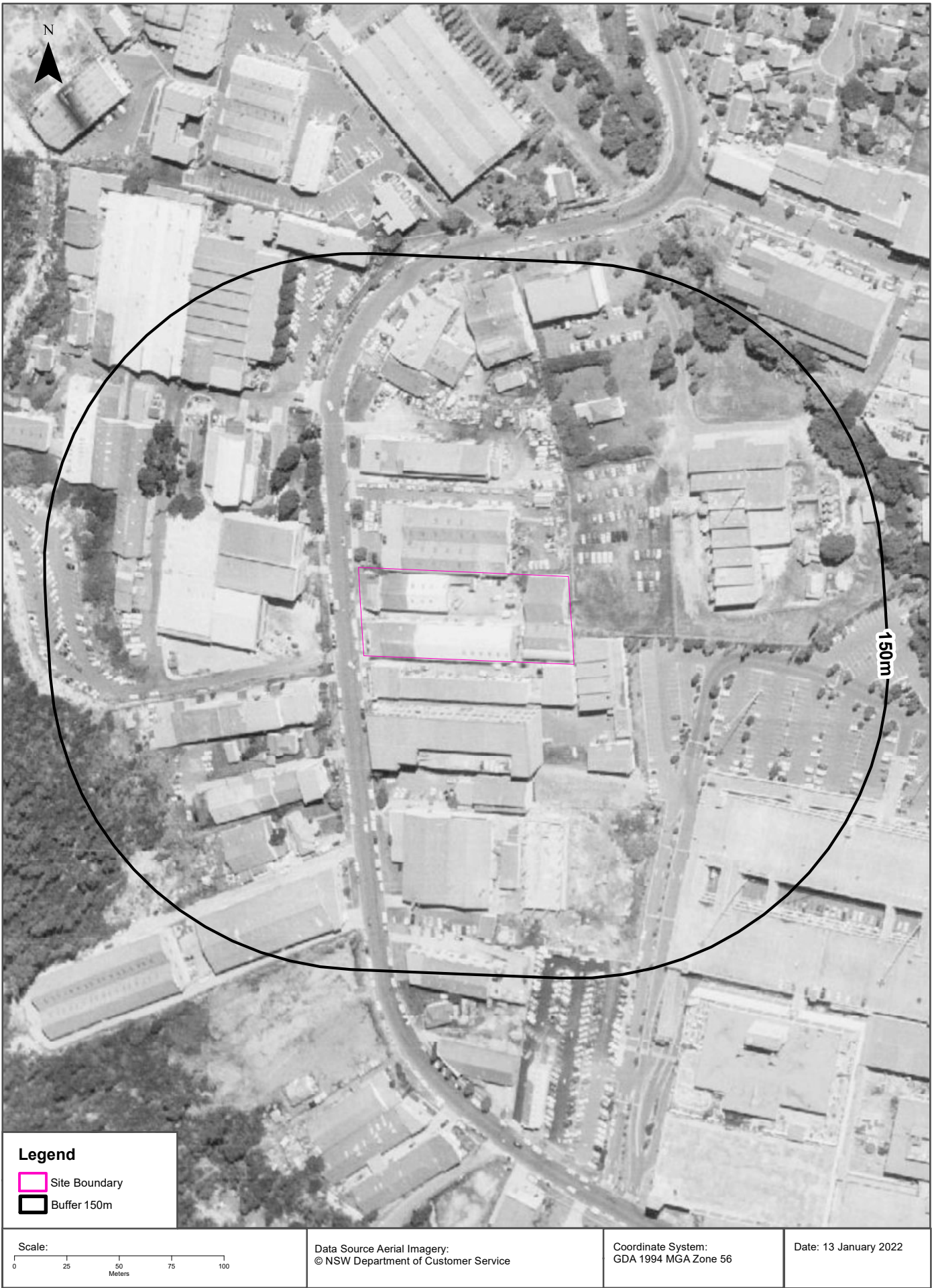


<p>Scale:</p> <p>0 25 50 75 100</p> <p>Meters</p>	<p>Data Sources: Aerial Imagery:</p> <p>© NSW Department of Customer Service</p>	<p>Coordinate System:</p> <p>GDA 1994 MGA Zone 56</p>	<p>Date: 14 January 2022</p>
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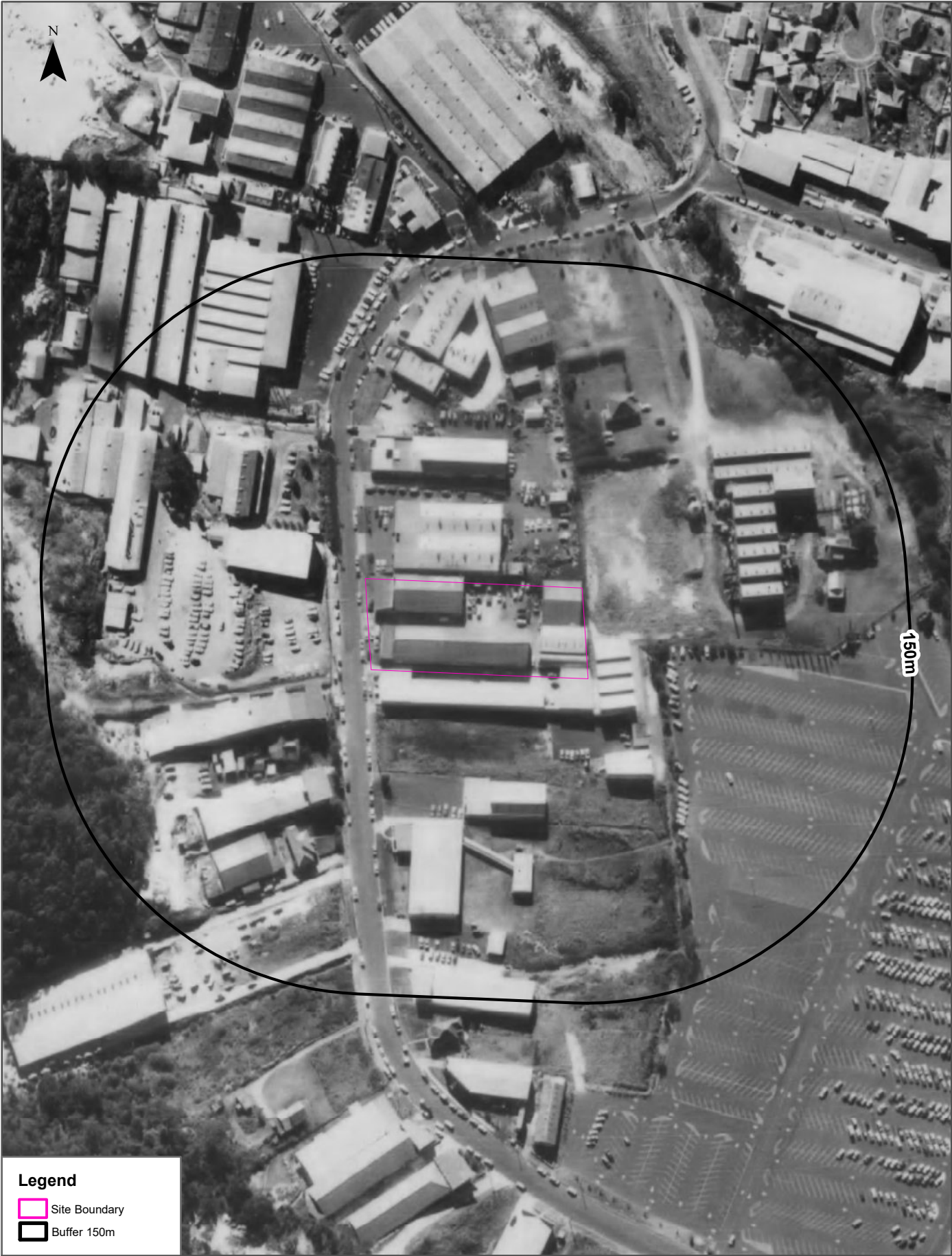
Aerial Imagery 1978

99-105 Old Pittwater Road, Brookvale, NSW 2100



Aerial Imagery 1970

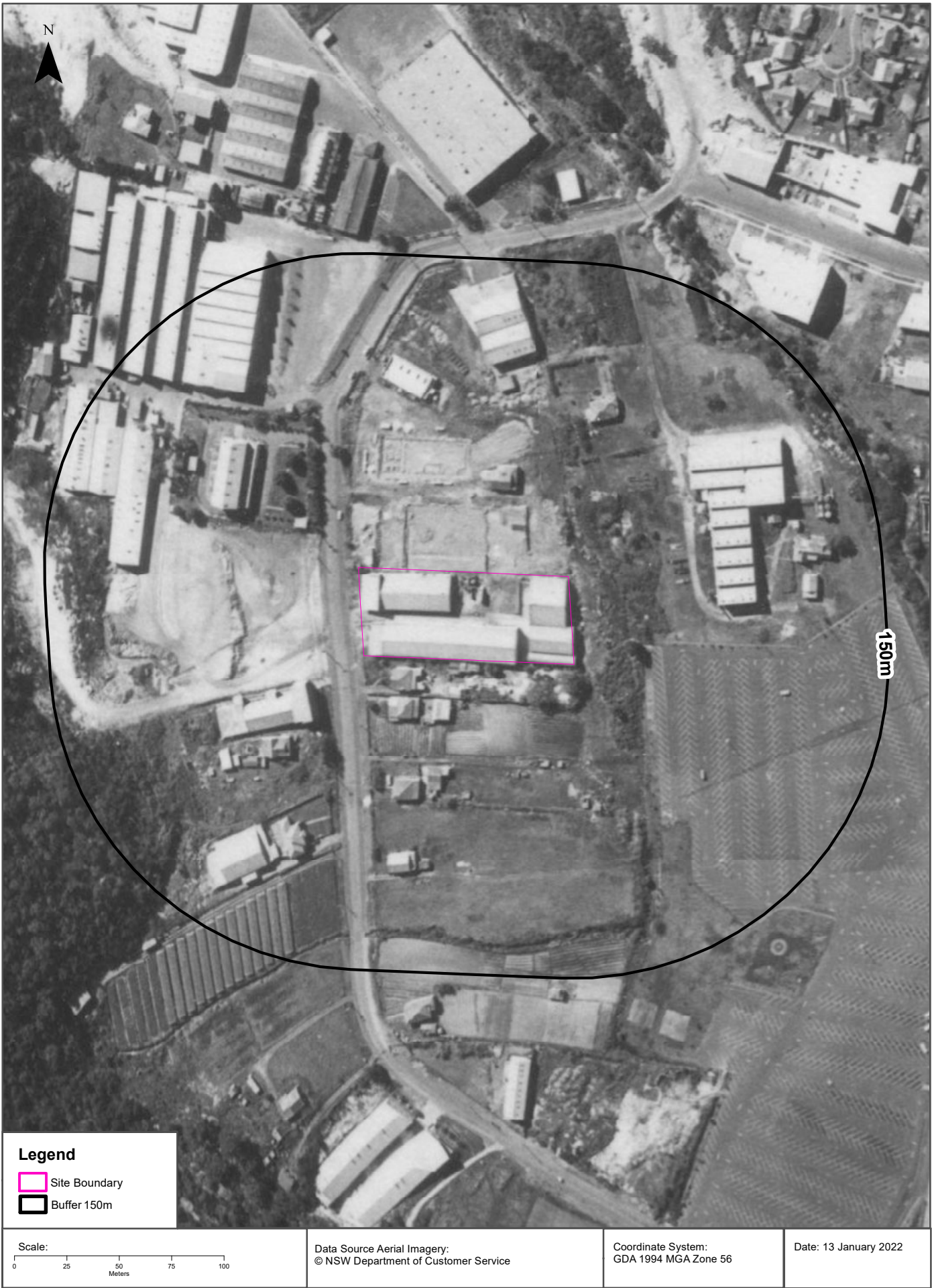
99-105 Old Pittwater Road, Brookvale, NSW 2100





Aerial Imagery 1965

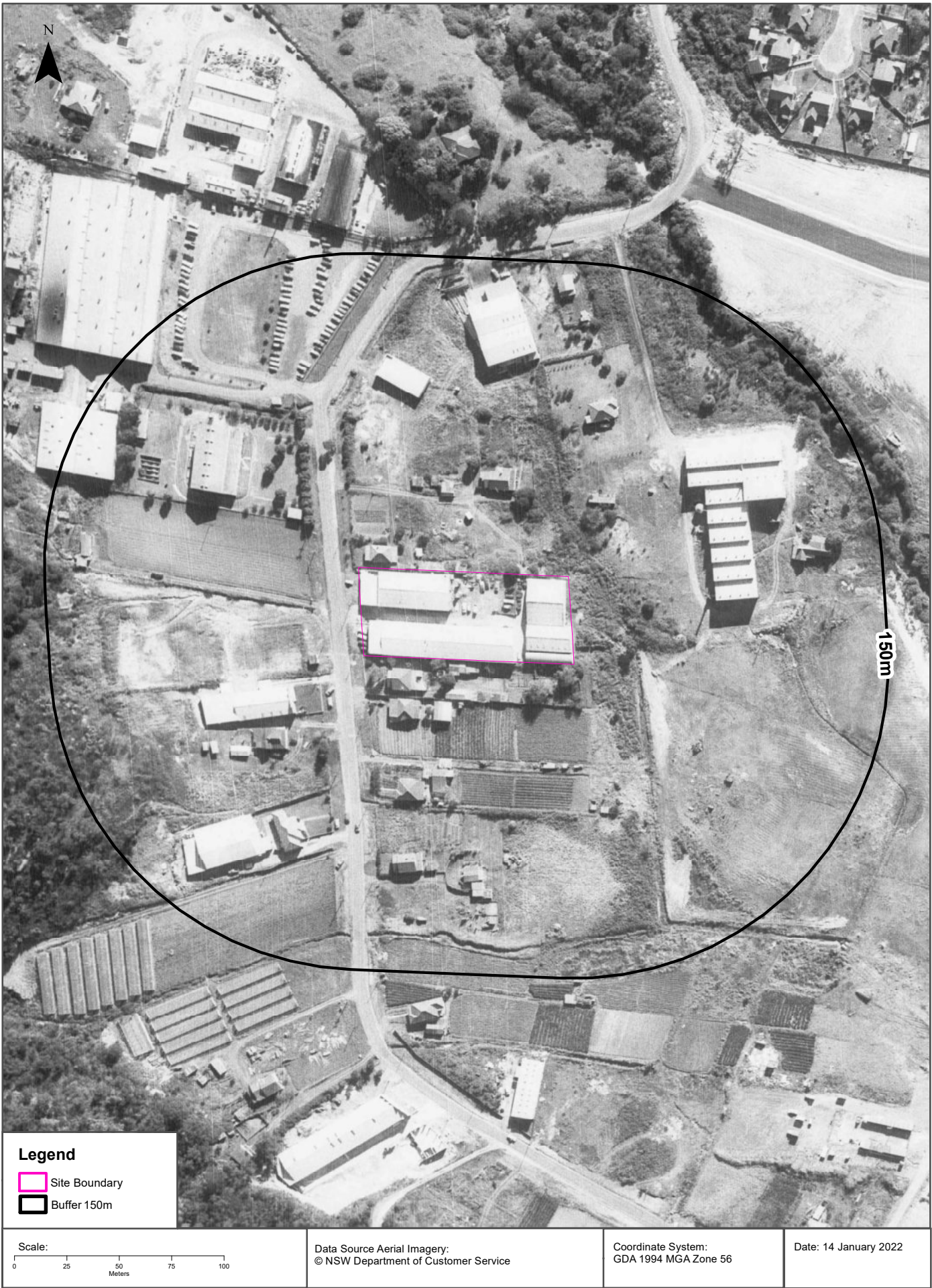
99-105 Old Pittwater Road, Brookvale, NSW 2100





Aerial Imagery 1961

99-105 Old Pittwater Road, Brookvale, NSW 2100





Aerial Imagery 1956

99-105 Old Pittwater Road, Brookvale, NSW 2100







Aerial Imagery 1943

99-105 Old Pittwater Road, Brookvale, NSW 2100





Aerial Imagery 1940

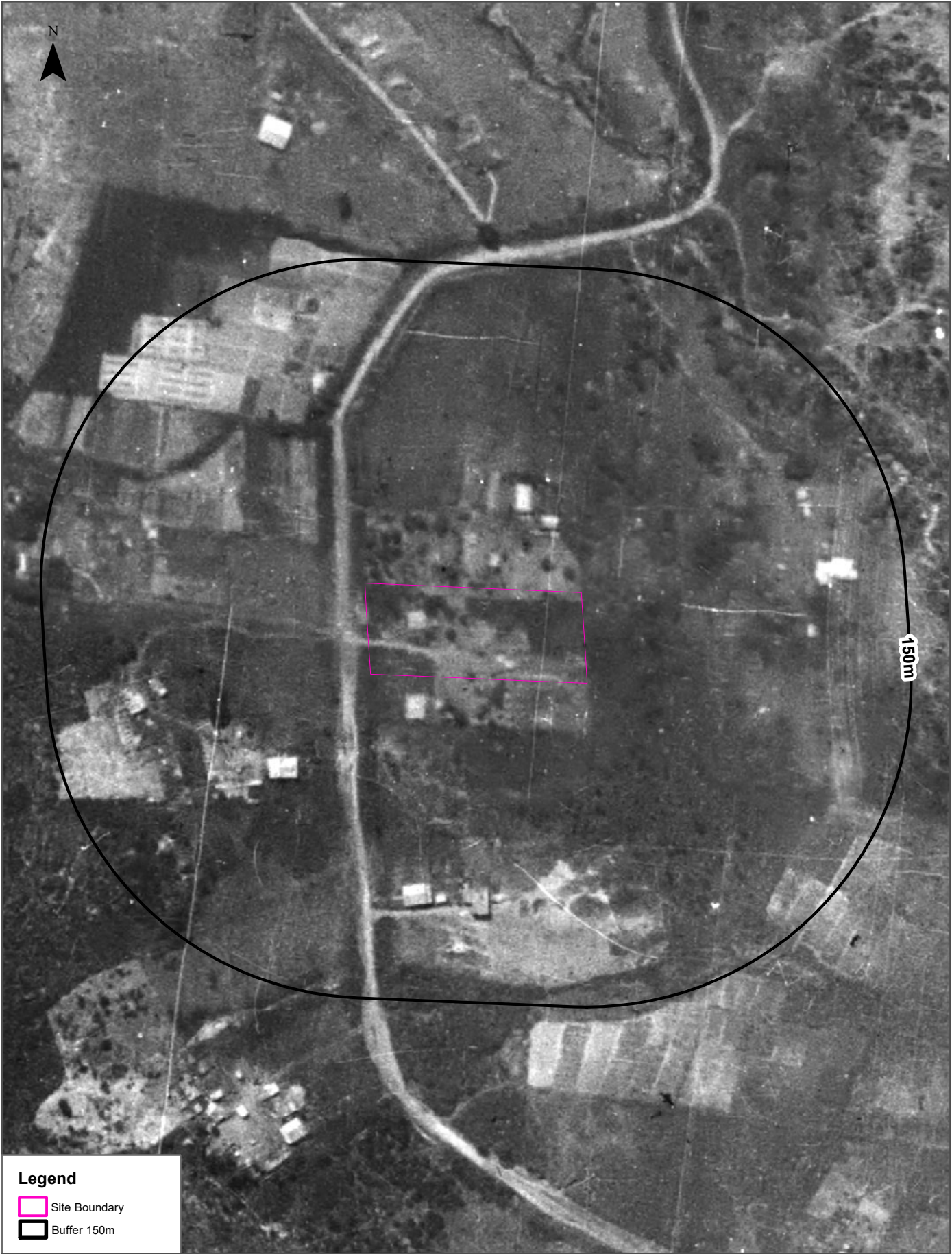
99-105 Old Pittwater Road, Brookvale, NSW 2100





Aerial Imagery 1930

99-105 Old Pittwater Road, Brookvale, NSW 2100

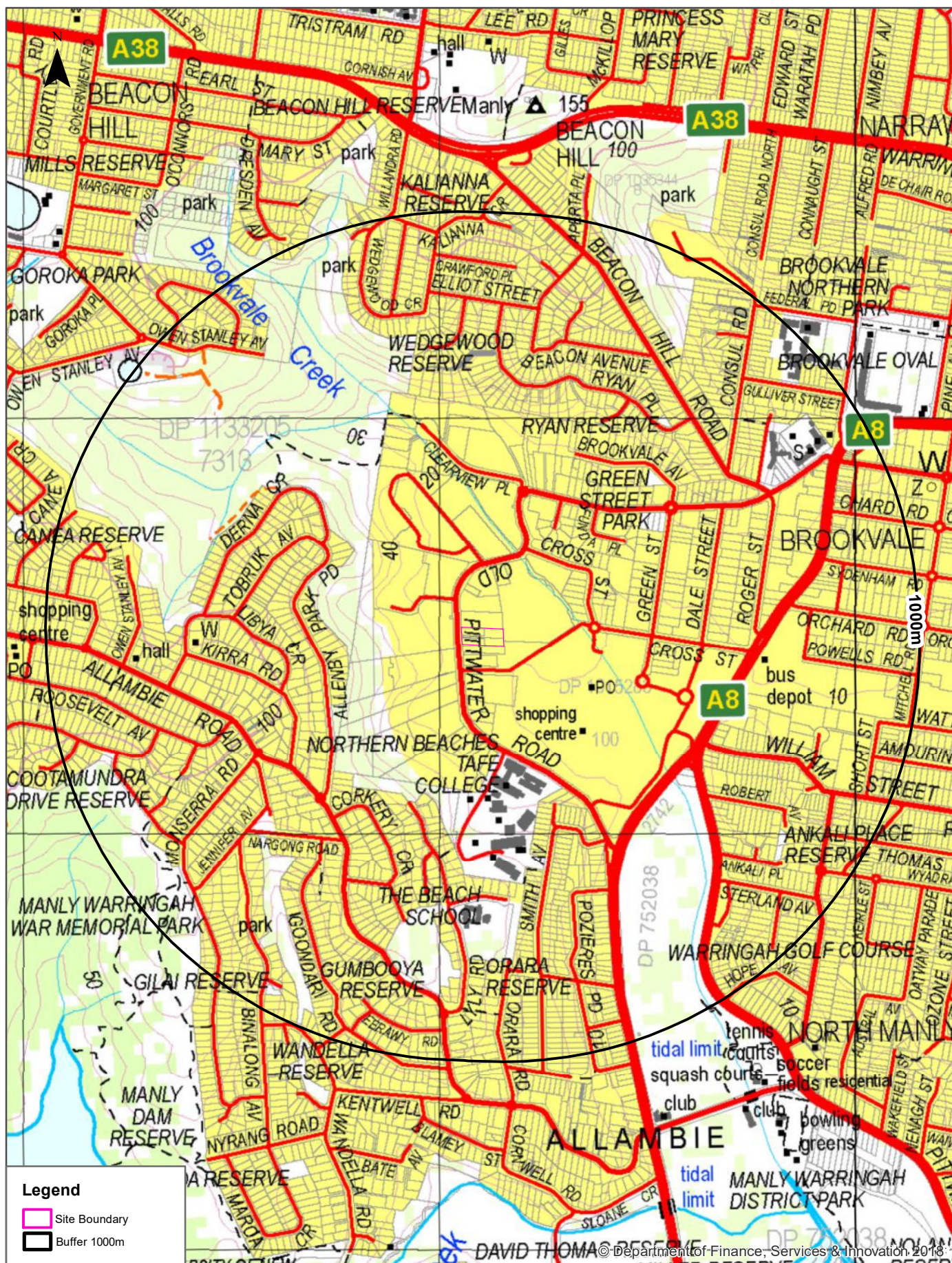


Scale: 0 25 50 75 100 Meters	Data Sources: Aerial Imagery: © Geoscience Australia	Coordinate System: GDA 1994 MGA Zone 56	Date: 14 January 2022
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# Topographic Map 2015

99-105 Old Pittwater Road, Brookvale, NSW 2100





Historical Map 1975

99-105 Old Pittwater Road, Brookvale, NSW 2100

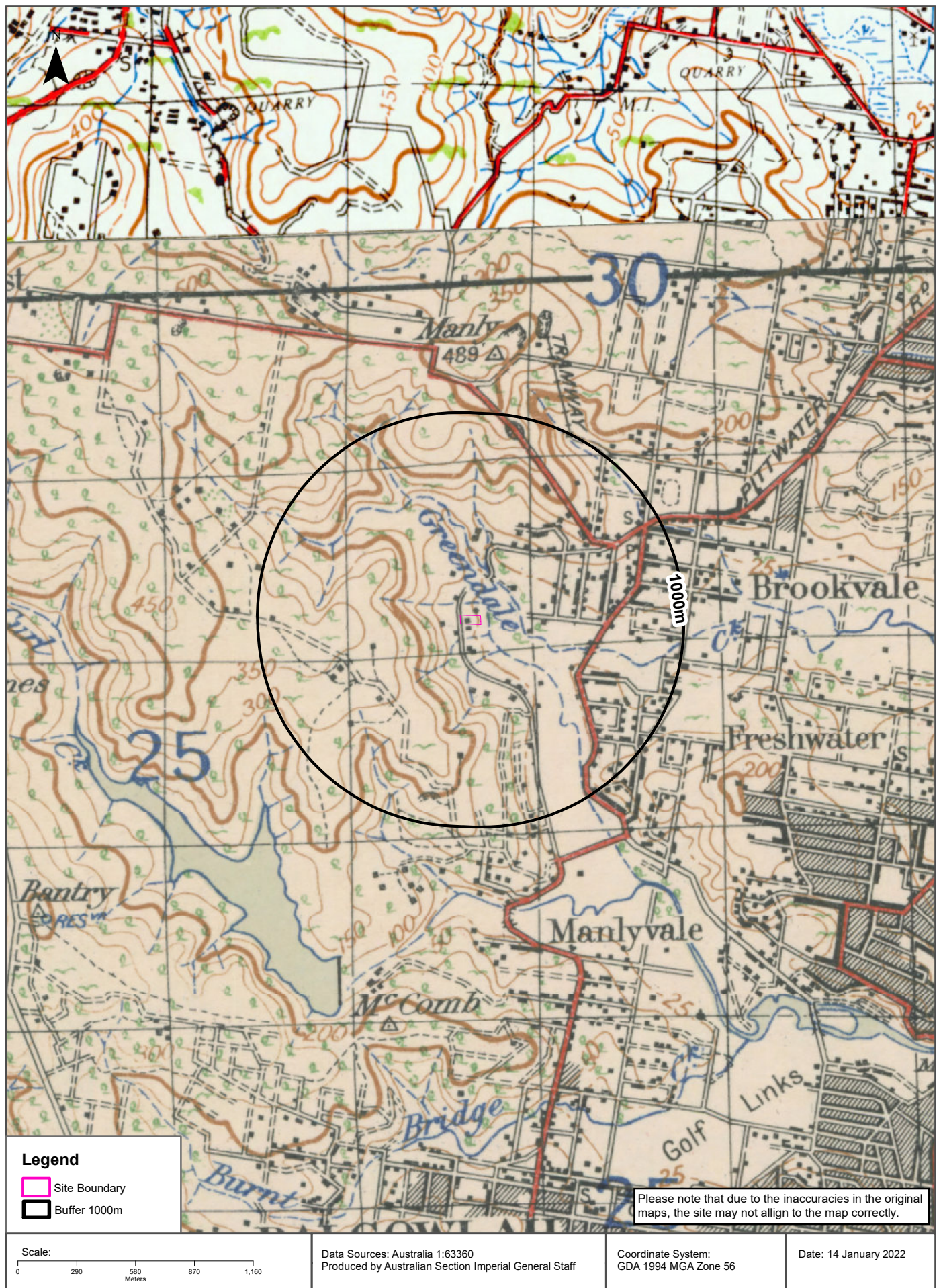


Scale: 0 290 580 870 1,160 Meters	Data Sources: NATMAP 1:100,000 Topographic Maps Geoscience Australia	Coordinate System: GDA 1994 MGA Zone 56	Date: 14 January 2022
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# Historical Map 1936 - 1942

99-105 Old Pittwater Road, Brookvale, NSW 2100





# Historical Map 1917 - 1920

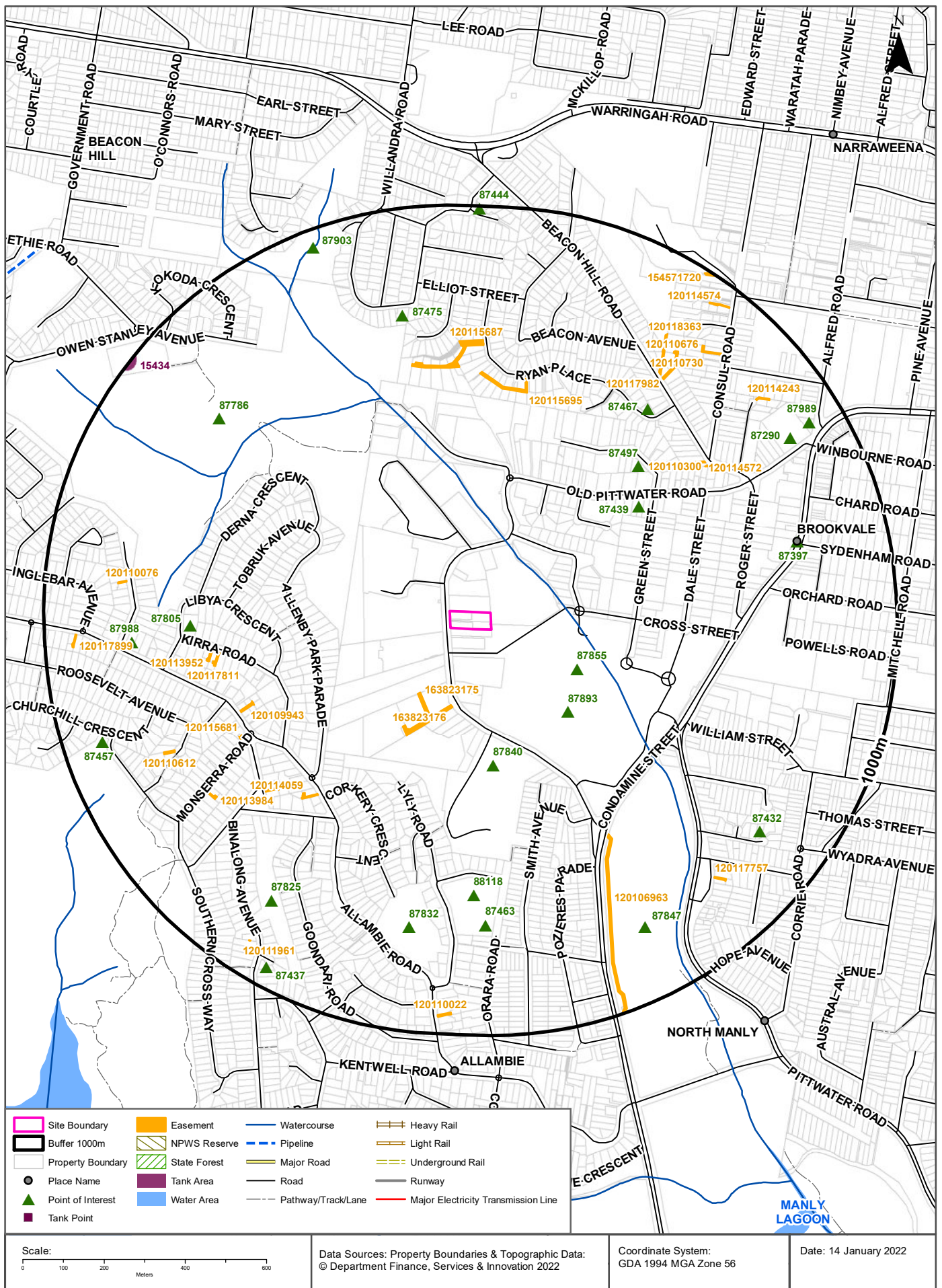
99-105 Old Pittwater Road, Brookvale, NSW 2100





# Topographic Features

99-105 Old Pittwater Road, Brookvale, NSW 2100



## Topographic Features

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
87855	Post Office	WARRINGAH MALL POST OFFICE	232m	South East
87893	Shopping Centre	WARRINGAH MALL	277m	South East
87840	TAFE College	NORTHERN BEACHES TAFE COLLEGE	334m	South
87439	Park	GREEN STREET PARK	450m	North East
87497	Community Medical Centre	BROOKVALE COMMUNITY HEALTH CENTRE	513m	North East
87467	Park	RYAN RESERVE	635m	North East
87805	Place Of Worship	ANGLICAN CHURCH	640m	West
88118	Special School	THE BEACH SCHOOL	655m	South
87463	Park	ORARA RESERVE	728m	South
87475	Park	WEDGEWOOD RESERVE	736m	North
87786	Park	ALLENBY PARK	739m	North West
87832	Park	GUMBOOYA RESERVE	744m	South
87397	Suburb	BROOKVALE	776m	East
87988	Community Facility	ALLAMBIE HEIGHTS PUBLIC HALL	786m	West
87825	Park	Park	804m	South West
87847	Golf Course	WARRINGAH GOLF COURSE	823m	South East
87432	Park	ANKALI PLACE RESERVE	827m	South East
87290	Primary School	BROOKVALE PUBLIC SCHOOL	855m	North East
87457	Park	COOTAMUNDRA DRIVE RESERVE	902m	West
87989	Community Facility	BROOKVALE COMMUNITY CENTRE	914m	North East
87437	Park	GILAI RESERVE	951m	South West
87903	Park	Park	956m	North West
87444	Park	KALIANNA RESERVE	993m	North

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

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## Topographic Features

99-105 Old Pittwater Road, Brookvale, NSW 2100

### 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
15434	Water	Operational		01/01/2009	982m	North West

### Tanks (Points)

What are the Tank Points located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

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

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

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## Major Easements

What Major Easements exist within the dataset buffer?

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

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
163823175	Primary	Right of way	Variable	176m	South West
163823176	Primary	Right of way	7m	264m	South West
120109943	Primary	Undefined		519m	West
120114059	Primary	Undefined		524m	South West
120115695	Primary	Undefined		550m	North
120117811	Primary	Undefined		573m	West
120115681	Primary	Undefined		578m	South West
120113984	Primary	Undefined		579m	South West
120106963	Primary	Undefined		581m	South East
120113952	Primary	Undefined		590m	West
120115687	Primary	Undefined		599m	North
120114572	Primary	Undefined		620m	North East
120110300	Primary	Undefined		640m	North East
120117756	Primary	Undefined		710m	South West

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120117982	Primary	Undefined		716m	North East
120118363	Primary	Undefined		721m	North East
120110612	Primary	Undefined		743m	South West
120110730	Primary	Undefined		784m	North East
120110076	Primary	Undefined		798m	West
120117757	Primary	Undefined		820m	South East
120110676	Primary	Undefined		827m	North East
120114243	Primary	Undefined		839m	North East
120111961	Primary	Undefined		914m	South West
120117899	Primary	Undefined		920m	West
120114574	Primary	Undefined		933m	North East
120110022	Primary	Undefined		946m	South
154571720	Primary	Right of way	1.7m and Var.	988m	North East

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

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## Topographic Features

99-105 Old Pittwater Road, Brookvale, NSW 2100

### State Forest

What State Forest exist within the dataset buffer?

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

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

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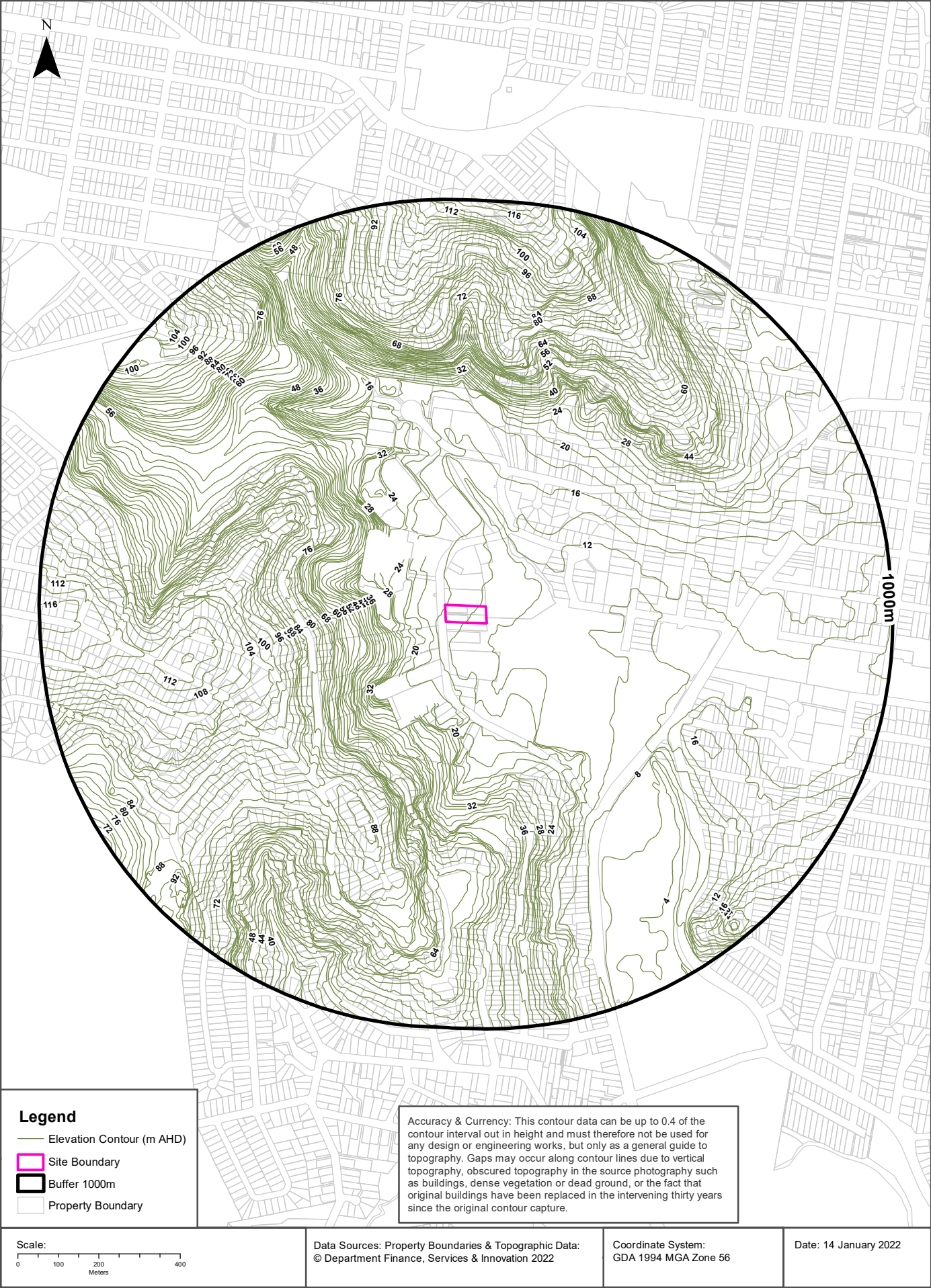
### National Parks and Wildlife Service Reserves

What NPWS Reserves exist within the dataset buffer?

Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N/A	No records in buffer				

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018)

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## Hydrogeology & Groundwater

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Hydrogeology

Description of aquifers within the dataset buffer:

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

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

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### Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

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

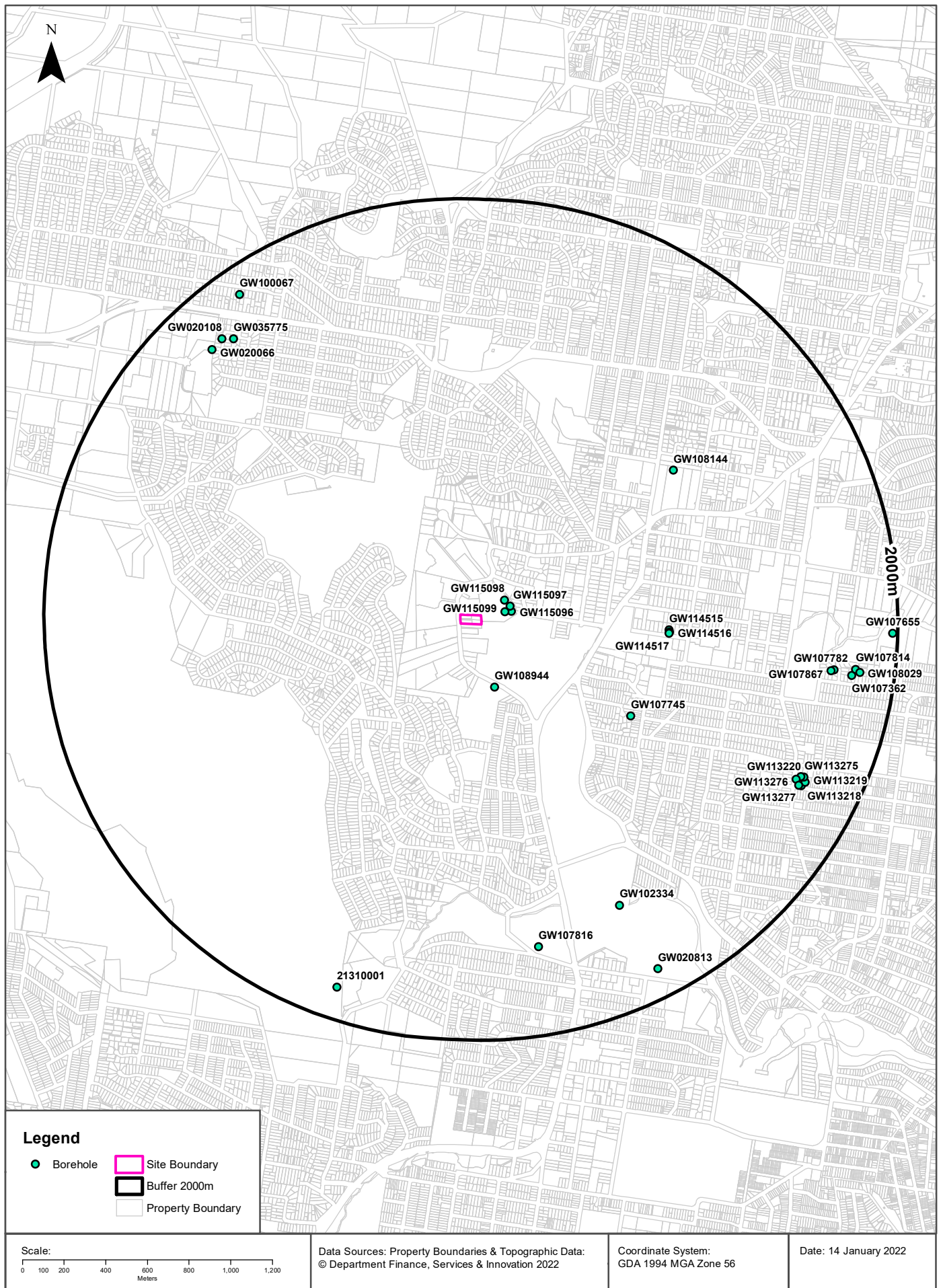
Prohibition Area No.	Prohibition	Distance	Direction
N/A	No records in buffer		

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source : NSW Department of Primary Industries



# Groundwater Boreholes

99-105 Old Pittwater Road, Brookvale, NSW 2100





# Hydrogeology & Groundwater

99-105 Old Pittwater Road, Brookvale, NSW 2100

## Groundwater Boreholes

Boreholes within the dataset buffer:

GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Intended Purpose	Name	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m bgl)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW115 099	10BL605 539			Monitoring Bore	Monitoring Bore		09/10/2015	10.00	10.00					116m	East
GW115 098	10BL605 539			Monitoring Bore	Monitoring Bore		09/10/2015	10.00	10.00					135m	North East
GW115 096	10BL605 539			Monitoring Bore	Monitoring Bore		09/10/2015	8.50	8.50					148m	East
GW115 097	10BL605 539			Monitoring Bore	Monitoring Bore		09/10/2015	8.50	8.50					148m	East
GW108 944	10BL601 921, 10WA10 7657	Bore	Private	Domestic	Domestic		19/06/2008	120.00		352	13.00	0.500		310m	South
GW107 745	10BL165 912, 10WA10 9034	Spear	Private	Domestic	Domestic		13/10/2005	15.00	15.00	270	9.00	0.800		842m	South East
GW114 515	10BL605 404	Bore	Private	Monitoring Bore	Monitoring Bore		17/04/2013	4.00	4.50					903m	East
GW114 517	10BL605 404	Bore	Private	Monitoring Bore	Monitoring Bore		17/04/2013	3.50	4.00					903m	East
GW114 516	10BL605 404	Bore	Private	Monitoring Bore	Monitoring Bore		17/04/2013	4.00	4.50					905m	East
GW108 144	10BL164 675, 10BL601 916, 10WA10 9503	Bore		Recreation (groundwater), Test Bore	Recreation (groundwater)		20/01/2005	150.00	150.00	200	15.00	1.000		1158m	North East
GW102 334	10BL159 038, 10WA10 7785	Bore	Private	Recreation (groundwater)	Recreation (groundwater)		01/10/1997	60.00	60.00	240	4.00	1.800		1506m	South East
GW107 816	10BL165 143, 10BL165 919, 10WA10 9469	Bore		Recreation (groundwater), Test Bore	Irrigation		05/09/2005	78.50	78.50	505	7.00	2.500		1575m	South
GW113 276	10BL161 976	Bore	Private	Monitoring Bore	Monitoring Bore		01/04/2003	6.00	6.00					1685m	South East
GW107 867	10BL600 108, 10WA10 9050	Spear	Private	Domestic	Domestic		06/03/2006	4.00	5.00		2.10	1.000		1694m	East
GW113 275	10BL161 976	Bore	Private	Monitoring Bore	Monitoring Bore		01/04/2003	7.00	7.00					1702m	South East
GW107 782	10BL165 941, 10WA10 9036	Spear	Private	Domestic	Domestic		19/01/2006	3.00	4.00	509	1.20	0.500		1709m	East
GW113 277	10BL161 976	Bore	Private	Monitoring Bore	Monitoring Bore		02/04/2013	6.00	6.00					1710m	South East
GW035 775	10BL013 059	Bore open thru rock	Private	Waste Disposal	Waste Disposal		01/03/1963	146.30	146.30					1715m	North West
GW113 220	10BL161 977	Bore	Private	Monitoring Bore	Monitoring Bore	Mobil	13/11/2013	4.50	4.50					1715m	South East
GW113 218	10BL161 977	Bore	Private	Monitoring Bore	Monitoring Bore	Mobil	13/11/2013	5.00	5.00					1723m	South East

GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Intended Purpose	Name	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m bgl)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW113 219	10BL161 977	Bore	Private	Monitoring Bore	Monitoring Bore	Mobil	03/04/2003	3.00	3.00					1731m	South East
GW020 066	10BL012 712	Bore open thru rock	Federal Govt	Waste Disposal	Waste Disposal		01/05/1962	106.60	106.70					1744m	North West
GW020 108		Bore open thru rock	Private		Waste Disposal		01/03/1963	134.10	134.10					1751m	North West
GW107 362	10BL165 162, 10WA10 8956	Spear	Private	Domestic	Domestic		10/08/2005	5.00	5.00	Good	3.00	0.500		1795m	East
GW107 814	10BL165 812	Spear	Private	Domestic	Domestic		05/12/2005	4.00	4.00					1812m	East
GW108 029	10BL164 674, 10WA10 8912	Spear	Private	Domestic	Domestic		19/04/2006	6.00	6.00		2.00	0.500		1832m	East
213100 01					UNK								34.70	1847m	South
GW020 813	10BL013 831	Well	Private	Not Known	Irrigation		01/01/1957	2.70						1861m	South East
GW100 067	10BL156 730	Bore		Monitoring Bore	Monitoring Bore		22/06/1995	5.10						1867m	North West
GW107 655	10BL164 287, 10BL165 857, 10WA10 7749	Bore		Recreation (groundwater), Test Bore	Recreation (groundwater)		14/01/2005	78.00	78.00	220	3.00	3.000		1977m	East

Borehole Data Source : NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation for all bores prefixed with GW. All other bores © Commonwealth of Australia (Bureau of Meteorology) 2015. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Hydrogeology & Groundwater

99-105 Old Pittwater Road, Brookvale, NSW 2100

## Driller's Logs

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

Groundwater No	Drillers Log	Distance	Direction
GW115099	0.00m-0.20m CONCRETE 0.20m-0.50m SAND 0.50m-0.60m CLAYEY SAND 0.60m-1.20m NO RECOVERY 1.20m-1.90m CLAYEY SAND COARSE 1.90m-2.60m CLAY FIRM , GREY 2.60m-3.00m SHALE RED, WEATHERED 3.00m-3.30m CLAY FIRM GREY 3.30m-3.80m SHALE WEATHERED GREY 3.80m-10.00m SHALE BROWN	116m	East
GW115098	0.00m-0.20m CONCRETE 0.20m-0.30m CLAY SOFT DARK BROWN 0.30m-0.40m CONCRETE 0.40m-0.50m SANDY CLAY 0.50m-1.00m CLAY FIRM ,GREY AND BROWN 1.00m-1.50m CLAY ORANGE 1.50m-2.30m SHALE WEATHERED 2.30m-2.40m CLAY STIFF GREY 2.40m-3.30m SHALE RED AND GREY 3.30m-3.60m SHALE HIGHLY WEATERED 3.60m-3.80m SHALE FRACTURED BROWN 3.80m-10.00m SHALE BROWN	135m	North East
GW115096	0.00m-0.20m CONCRETE 0.20m-0.70m CLAY FIRM GREY BROWN,BRICK AND SHALE 0.70m-1.20m CLAY SOFT BROWN AND BLACK 1.20m-1.30m CLAY FIRM BROWN GREY ORANGE 1.30m-2.50m CLAY SOFT GREY,ORANGE MOTTLED 2.50m-2.60m SHALE FRACTURED WEATHERED 2.60m-2.80m CLAY FIRM GREY 2.80m-3.60m SHALE HIGHLY FRACTURED RED TO ORANGE 3.60m-3.80m SHALE FRACTURED BROWN 3.80m-8.50m SHALE BROWN	148m	East
GW115097	0.00m-0.20m CONCRETE 0.20m-0.80m CLAY FIRM,BROWN,MOTTLED RED AND BLACK 0.80m-1.40m CLAY GREY MOTTLED WITH ORANGE FRAG. 1.40m-2.00m SHALE RED WETHERED 2.00m-2.70m SHALE BROWN, HIGHLY FRACTURED 2.70m-3.10m CLAY STIFF, GREY MOTTLED WITH RED 3.10m-8.50m SHALE BROWN	148m	East
GW107745	0.00m-15.00m sand	842m	South East
GW114515	0.00m-0.23m CONCRETE 0.23m-0.50m FILL SILTY SAND,FINE TO MED.GRAINED 0.50m-1.50m SAND FINE TO MED.GRAINED,YELLOW BROWN AND GREY 1.50m-4.50m SAND FINE TO MED.GRAINED,LIGHT GREY,SILT	903m	East
GW114517	0.00m-0.18m CONCRETE 0.18m-0.70m SILTY SAND,FINE TO MED.GRAINED,LIGHT BROWN 0.70m-1.00m SILTY SAND,ORANGE BROWN 1.00m-2.20m SILTY SAND LIGHT GREY,RED BROWN 2.20m-3.00m SANDY CLAY MED.PLASTICITY GREY MOT. 3.00m-4.00m SAND FINE TIO MED.GRAINED,LIGHT GREY	903m	East
GW114516	0.00m-0.21m CONCRETE 0.21m-0.70m FILL SILTY SAND FINE TO MED. GRAINED 0.70m-1.00m SILTY SAND ORANGE BROWN MOIST 1.00m-1.50m SAND.FINE TO MED.GRAINED,MOIST TO WET 1.50m-2.00m SILTY SAND FINE TO MED.GRAINED 2.00m-4.30m SAND LIGHT GREY MOIST TO WET 4.30m-4.50m SANDY CLAY MED.PLASTICITY,DARK GREY	905m	East

Groundwater No	Drillers Log	Distance	Direction
GW108144	0.00m-4.00m SAND 4.00m-15.00m RED CLAY BANDS 15.00m-21.00m SANDSTONE YELLOW 21.00m-25.00m SHALE 25.00m-68.00m SANDSTONE/SHALE 68.00m-75.00m SHALE 75.00m-86.00m SANDSTONE/SHALE 86.00m-91.00m SHALE 91.00m-131.00m SANDSTONE/SHALE 131.00m-143.00m SHALE 143.00m-146.00m SANDSTONE/SHALE 146.00m-150.00m SHALE	1158m	North East
GW102334	0.00m-0.50m Topsoil 0.50m-3.00m SAND YELLOW 3.00m-7.00m MARINE DARK GREY/CLAY-VERY GREASY 7.00m-11.00m MARINE WITH 15%SHELL FRAG.QUARTZ. 11.00m-17.00m MARINE NO QUARTZ 17.00m-23.00m MARINE/5%SHELL FRAGMENT 23.00m-26.00m MARINE/10%SHELL FRAGMENT 26.00m-28.00m MARINE/15%SHELL FRAGMENT 28.00m-30.00m SANDSTONE/BROWN/ GRAIN 30.00m-31.00m SANDSTONE/BROWN/R. QUARTZ 31.00m-35.00m SANDSTONE/GREY/F/G/BIT CLAY MATRIX 35.00m-40.00m CLAY STONE GREY 40.00m-60.00m SANDSTONE/WHITE BIT OF QUARTZ	1506m	South East
GW107816	0.00m-1.40m SANDY CLAY L/BROWN 1.40m-4.70m RED CLAY 4.70m-13.80m GREY SANDSTONE 13.80m-14.30m SANDSTONE FRACTURED,GREY 14.30m-22.30m SANDSTONE L/GREY 22.30m-23.00m SANDSTONE GREY,CLAY GREY 23.00m-26.40m GREY SANDSTONE 26.40m-27.20m BROWN SANDSTONE,QUARTZ 27.20m-27.50m SANDSTONE GREY 27.50m-28.00m BROWN SANDSTONE,QUARTZ 28.00m-29.50m L/GREY SANDSTONE 29.50m-29.60m GREY CLAY 29.60m-30.30m BROWN SANDSTONE,QUARTZ 30.30m-34.00m DARK GREY SANDSTONE 34.00m-34.70m DARK BROWN G/SANDSTONE 34.70m-48.10m DARK GREY SANDSTONE 48.10m-48.90m DARK GREY SHALE 48.90m-78.50m SANDSTONE GREY/L/GREY	1575m	South
GW107867	0.00m-4.00m sand 4.00m-5.00m clay	1694m	East
GW107782	0.00m-3.00m sand 3.00m-4.00m clay	1709m	East
GW035775	0.00m-0.30m Topsoil 0.30m-4.26m Clay Red 4.26m-5.18m Driller 5.18m-7.62m Clay White 7.62m-8.22m Clay Grey 8.22m-16.15m Sandstone Clay 16.15m-35.05m Sandstone 35.05m-39.92m Shale Clay 39.92m-55.77m Sandstone 55.77m-56.69m Clay 56.69m-57.60m Shale Clay 57.60m-62.78m Sandstone 62.78m-76.20m Sandstone Clay Seams 76.20m-113.38m Sandstone 113.38m-116.43m Shale 116.43m-129.84m Sandstone 129.84m-133.50m Sandstone Shale 133.50m-137.46m Sandstone 137.46m-137.76m Shale 137.76m-146.30m Sandstone Clay Seams	1715m	North West
GW020066	0.00m-0.30m Topsoil 0.30m-5.18m Clay 5.18m-9.44m Clay Shale 9.44m-11.27m Pipe Clay White 11.27m-11.88m Driller 11.88m-14.02m Pipe Clay White 14.02m-14.63m Sandstone Clay 14.63m-33.83m Sandstone 33.83m-34.44m Clay White Sandstone Decomposed 34.44m-54.86m Sandstone Grey 54.86m-60.96m Sandstone White 60.96m-62.17m Sandstone Shale 62.17m-64.00m Sandstone 64.00m-67.05m Shale 67.05m-104.54m Sandstone 104.54m-106.68m Shale Grey Water Supply	1744m	North West

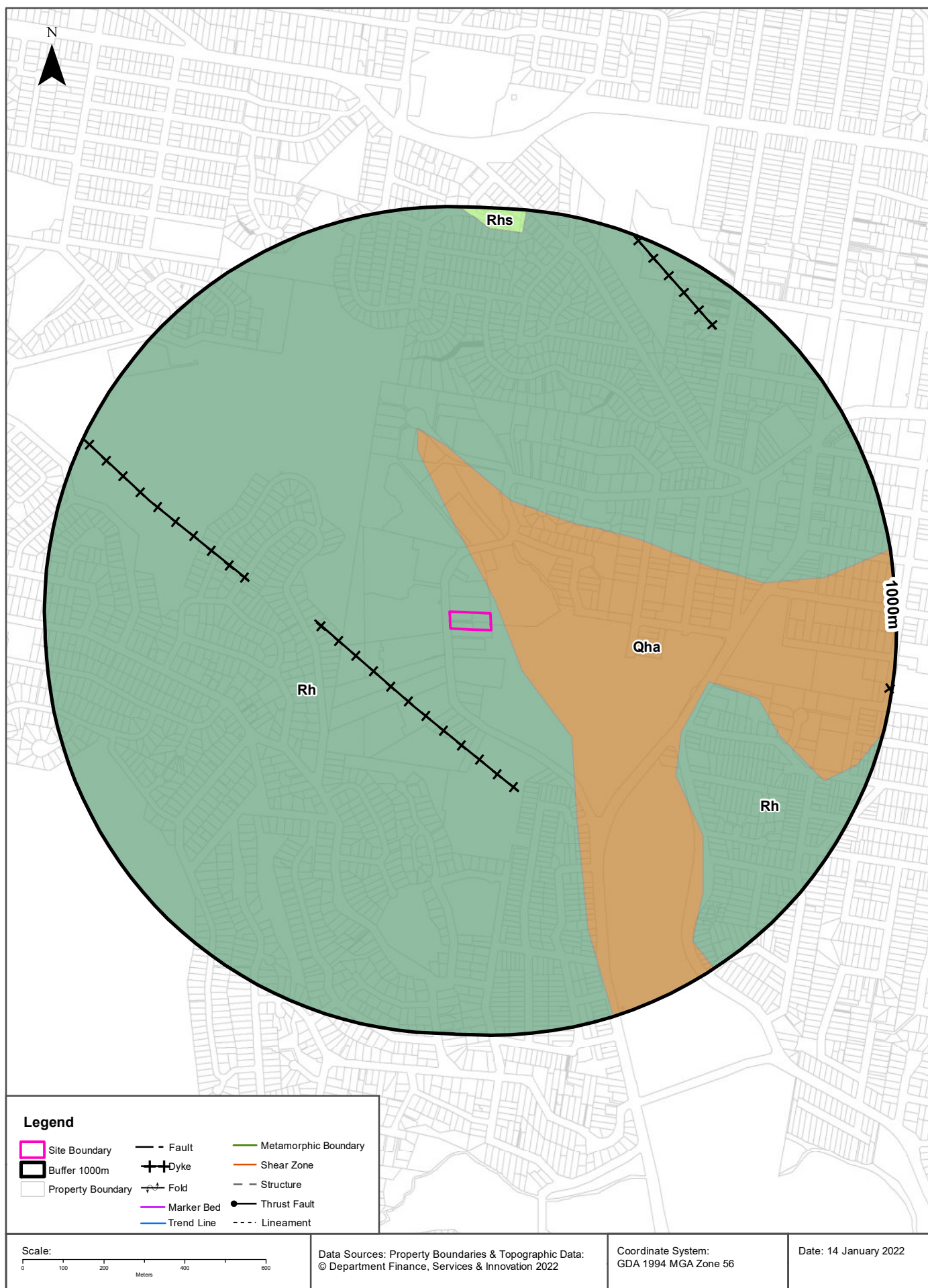


Groundwater No	Drillers Log	Distance	Direction
GW020108	0.00m-0.30m Topsoil 0.30m-2.74m Clay Red 2.74m-3.35m Pipe Clay White 3.35m-4.26m Driller 4.26m-6.09m Sandstone 6.09m-7.62m Clay 7.62m-12.80m Sandstone Clay 12.80m-33.52m Sandstone 33.52m-37.79m Clay Grey Shale 37.79m-51.51m Sandstone 51.51m-53.64m Clay White 53.64m-57.91m Clay Grey Shale 57.91m-61.56m Sandstone Hard 61.56m-67.97m Sandstone Clay Seams 67.97m-102.10m Sandstone 102.10m-103.63m Shale 103.63m-134.11m Sandstone	1751m	North West
GW107362	0.00m-0.30m topsoil 0.30m-3.50m sand, white 3.50m-5.00m sand, yellow silty	1795m	East
GW107814	0.00m-0.50m topsoil 0.50m-2.00m sand, white 2.00m-3.50m sand, yellow silty 3.50m-4.00m clay, grey	1812m	East
GW108029	0.00m-0.30m topsoil 0.30m-2.50m sand, grey 2.50m-4.20m sand, grey silty 4.20m-6.00m sand, grey	1832m	East
GW107655	0.00m-26.00m SAND 26.00m-33.00m SAND/CLAY 33.00m-43.00m SAND/CLAY/QUARTZ 43.00m-71.00m SANDSTONE 71.00m-78.00m SHALE	1977m	East

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp  
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# Geology

99-105 Old Pittwater Road, Brookvale, NSW 2100



## Geology

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Geological Units 1:100,000

What are the Geological Units within the dataset buffer?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dist	Dir
Rh	Medium to coarse grained quartz sandstone, very minor shale and laminate lenses				Triassic		Sydney	0m	On-site
Qha	Silty to peaty quartz sand, silt, and clay. Ferruginous and humic cementation in places. Common shell layers				Quaternary		Sydney	22m	East
Rhs	Shale. Laminate				Triassic		Sydney	942m	North

### Geological Structures 1:100,000

What are the Geological Structures within the dataset buffer?

Feature	Name	Description	Map Sheet	Distance	Direction
Dyke			Sydney	205m	South West

Geological Data Source : NSW Department of Industry, Resources & Energy

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## Naturally Occurring Asbestos Potential

99-105 Old Pittwater Road, Brookvale, NSW 2100

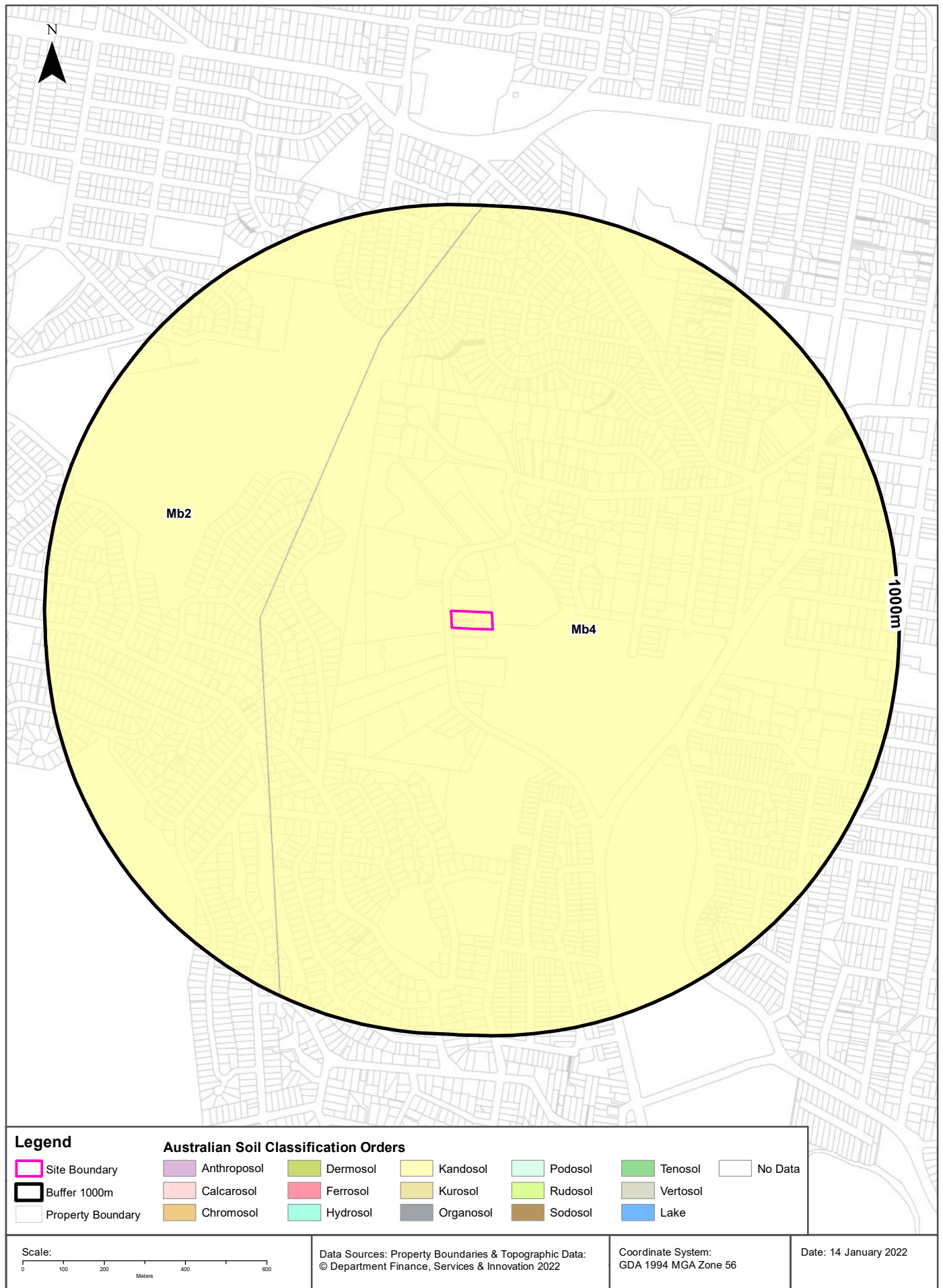
## Naturally Occurring Asbestos Potential

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: © State of New South Wales through NSW Department of Industry, Resources & Energy





## Soils

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Atlas of Australian Soils

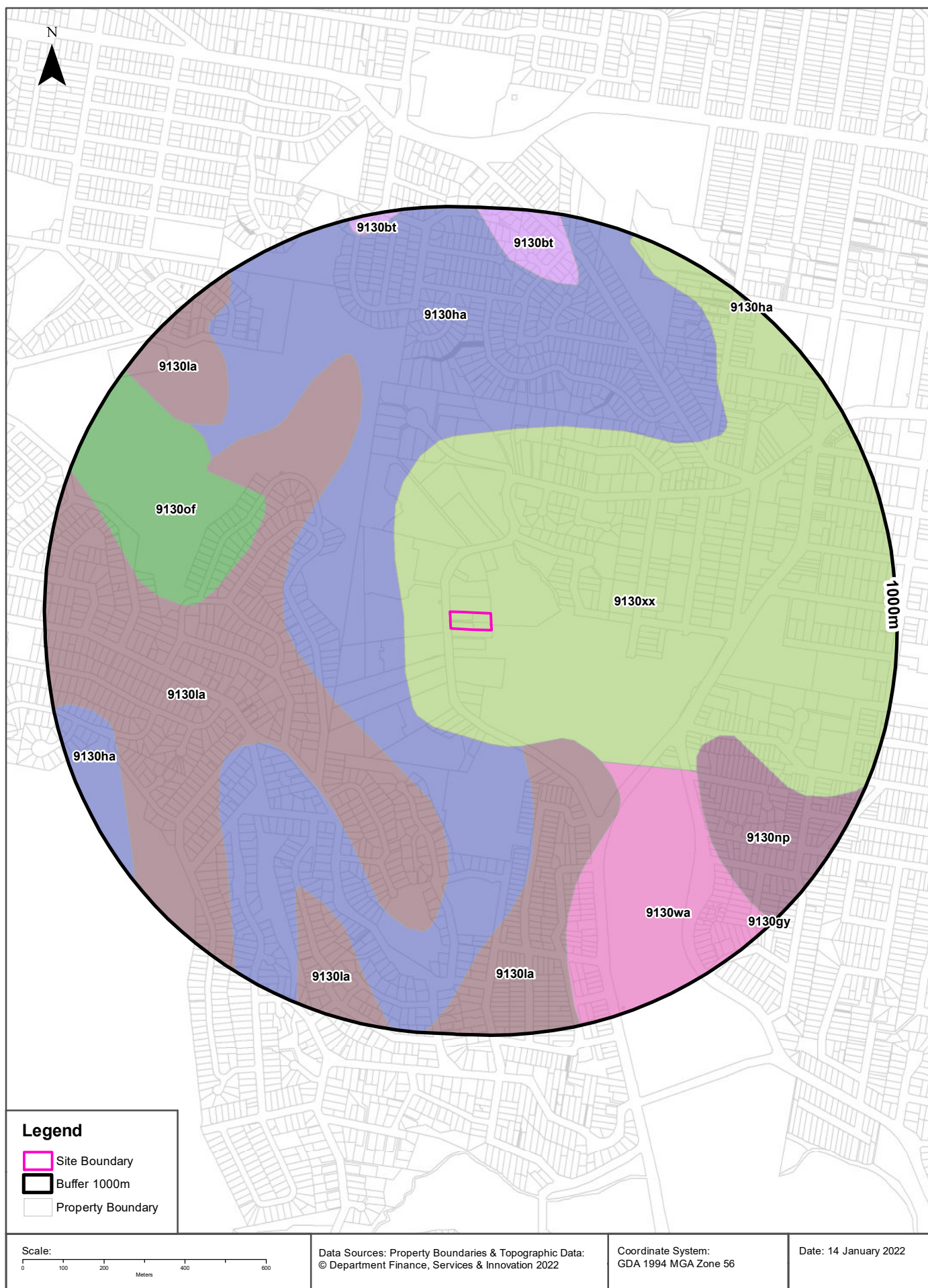
Soil mapping units and Australian Soil Classification orders within the dataset buffer:

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Mb4	Kandosol	Coastal complex: chief soils are acid yellow leached earths (Gn2.74) and (Gn2.34), hard acidic yellow mottled soils (Dy3.41), and hard acidic red soils (Dr2.21). This unit includes headlands and rugged coastal areas of unit Mb2; ridges and slopes of unit Tb35; low-lying coastal areas of unit Cb27; and some swampy areas.	0m	On-site
Mb2	Kandosol	Dissected sandstone plateau of moderate to strong relief with sandstone pillars, ledges, and slabs-- level to undulating ridges, irregularly benched slopes, steep ridges, cliffs, canyons, narrow sandy valleys: chief soils are (i) on areas of gentle to moderate relief, acid yellow leached earths (Gn2.74) and (Gn2.34) and acid leached yellow earths (Gn2.24)- sometimes these soils contain ironstone gravel; and (ii) on, or adjacent to, areas of strong relief, siliceous sands (Uc1.2), leached sands (Uc2.12) and (Uc2.2), and shallow forms of the above (Gn2) soils. Associated are: (i) on flat to gently undulating remnants of the original plateau surface, leached sands (Uc2.3), siliceous sands (Uc1.2), sandy earths (Uc5.22), and (Gn2) soils as for (i) above (these areas are in part comparable with unit Cb29); (ii) on flat ironstone gravelly remnants of the original plateau surface, (Gn2) soils as for unit Mb5(i); (iii) on gently undulating ridges where interbedded shales are exposed, shallow, often stony (Dy3.41), (Dr2.21), and related soils similar to unit Tb35; (iv) narrow valleys of (Uc2.3) soils flanked by moderate slopes of (Dy3.41) soils; (v) escarpments of steep hills with shallow (Dy) and (Dr) soils between sandstone pillars; and (vi) shallow (Um) soils, such as (Um6.21) on steep hills of basic rocks. As mapped, minor areas of units Mg20, Mm1, and Mw8 are included. Data are limited.	426m	West

Atlas of Australian Soils Data Source: CSIRO

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**99-105 Old Pittwater Road, Brookvale, NSW 2100**



## Soils

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Soil Landscapes of Central and Eastern NSW

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

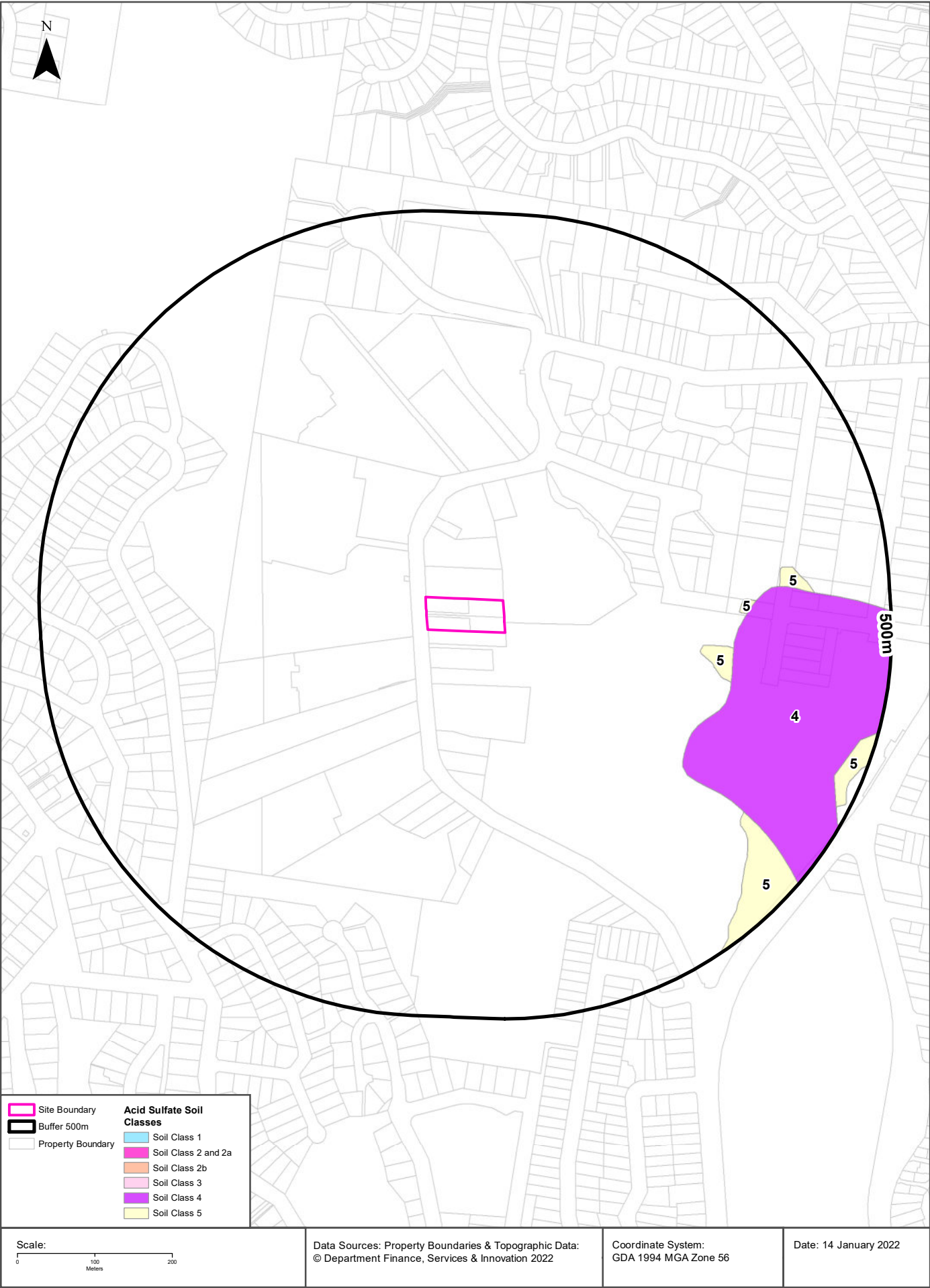
Soil Code	Name	Distance	Direction
<a href="#">9130xx</a>	Disturbed Terrain	0m	On-site
<a href="#">9130ha</a>	Hawkesbury	116m	North West
<a href="#">9130la</a>	Lambert	296m	South West
<a href="#">9130wa</a>	Warriewood	421m	South East
<a href="#">9130of</a>	Oxford Falls	516m	West
<a href="#">9130np</a>	Newport	591m	South East
<a href="#">9130bt</a>	Blacktown	832m	North
<a href="#">9130gy</a>	Gymea	983m	South East

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

99-105 Old Pittwater Road, Brookvale, NSW 2100



## Acid Sulfate Soils

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Environmental Planning Instrument - Acid Sulfate Soils

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

Soil Class	Description	EPI Name
N/A		

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

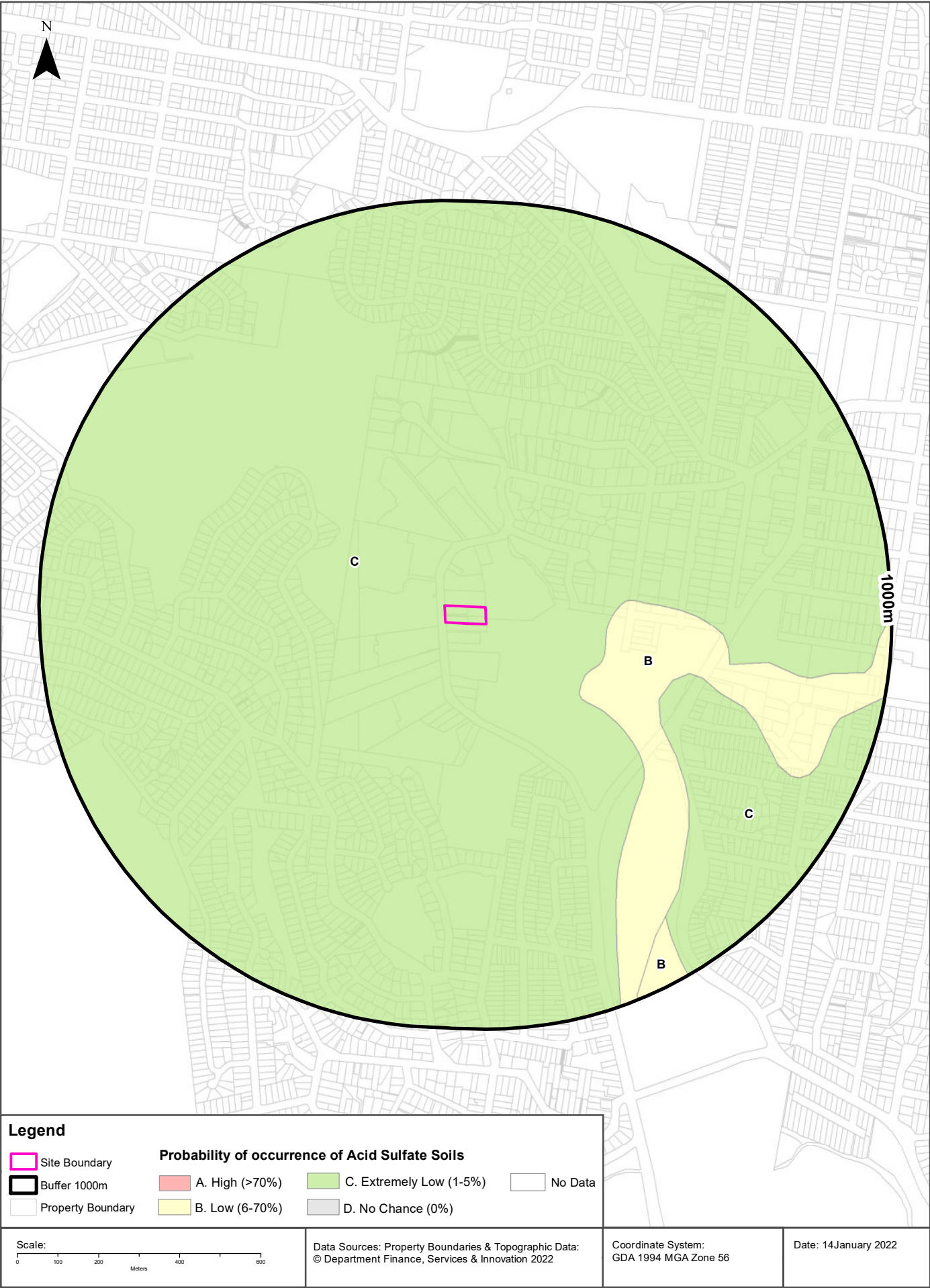
Soil Class	Description	EPI Name	Distance	Direction
N/A				

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# Atlas of Australian Acid Sulfate Soils

99-105 Old Pittwater Road, Brookvale, NSW 2100



## Acid Sulfate Soils

99-105 Old Pittwater Road, Brookvale, NSW 2100

### 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
B	Low Probability of occurrence. 6-70% chance of occurrence.	274m	South East

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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## Dryland Salinity

99-105 Old Pittwater Road, Brookvale, NSW 2100

### 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

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Mining Subsidence Districts

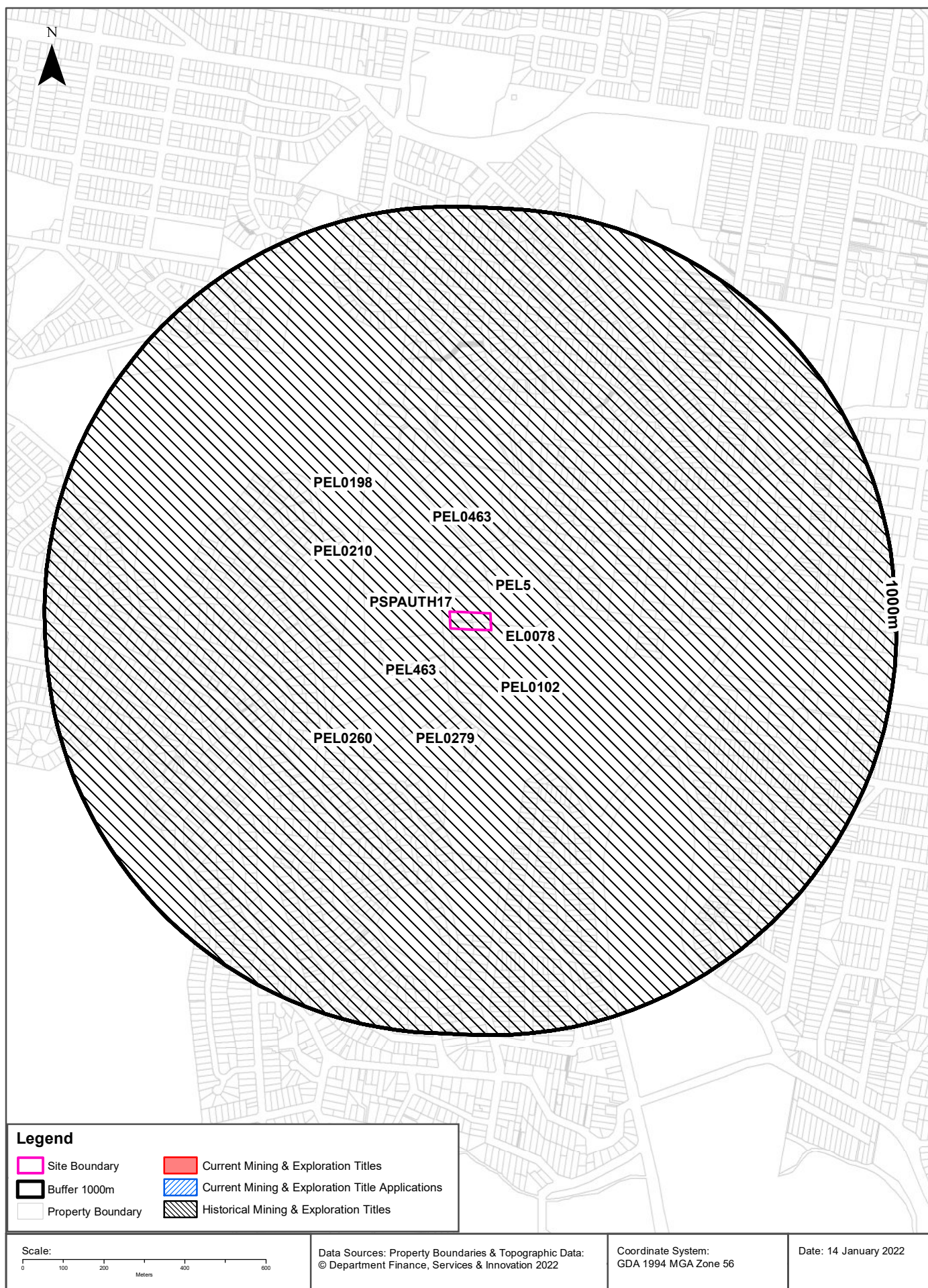
Mining Subsidence Districts within the dataset buffer:

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

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

99-105 Old Pittwater Road, Brookvale, NSW 2100



## Mining

99-105 Old Pittwater Road, Brookvale, NSW 2100

### 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: © State of New South Wales through NSW Department of Industry

### 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: © State of New South Wales through NSW Department of Industry



## Mining

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
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)	17/04/1990	11/11/1993	PETROLEUM	Petroleum	0m	On-site
PEL0463	DART ENERGY (APOLLO) PTY LTD	22/10/2008	6/03/2015	PETROLEUM	Petroleum	0m	On-site
PSPAUTH17	MACQUARIE ENERGY PTY LTD	8/03/2007	7/03/2008	PETROLEUM	Petroleum	0m	On-site
EL0078	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	01 Feb 1967	01 Feb 1968	MINERALS		0m	On-site
PEL463	DART ENERGY (APOLLO) PTY LTD			MINERALS		0m	On-site
PEL5	AGL UPSTREAM INVESTMENTS PTY LIMITED			MINERALS		0m	On-site
PEL0260	NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO.	9/09/1981	8/03/1993	PETROLEUM	Petroleum	0m	On-site
PEL0198	JOHN STREVS (TERRIGAL) NL			PETROLEUM	Petroleum	0m	On-site
PEL0102	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

# State Environmental Planning Policy

99-105 Old Pittwater Road, Brookvale, NSW 2100

## State Significant Precincts

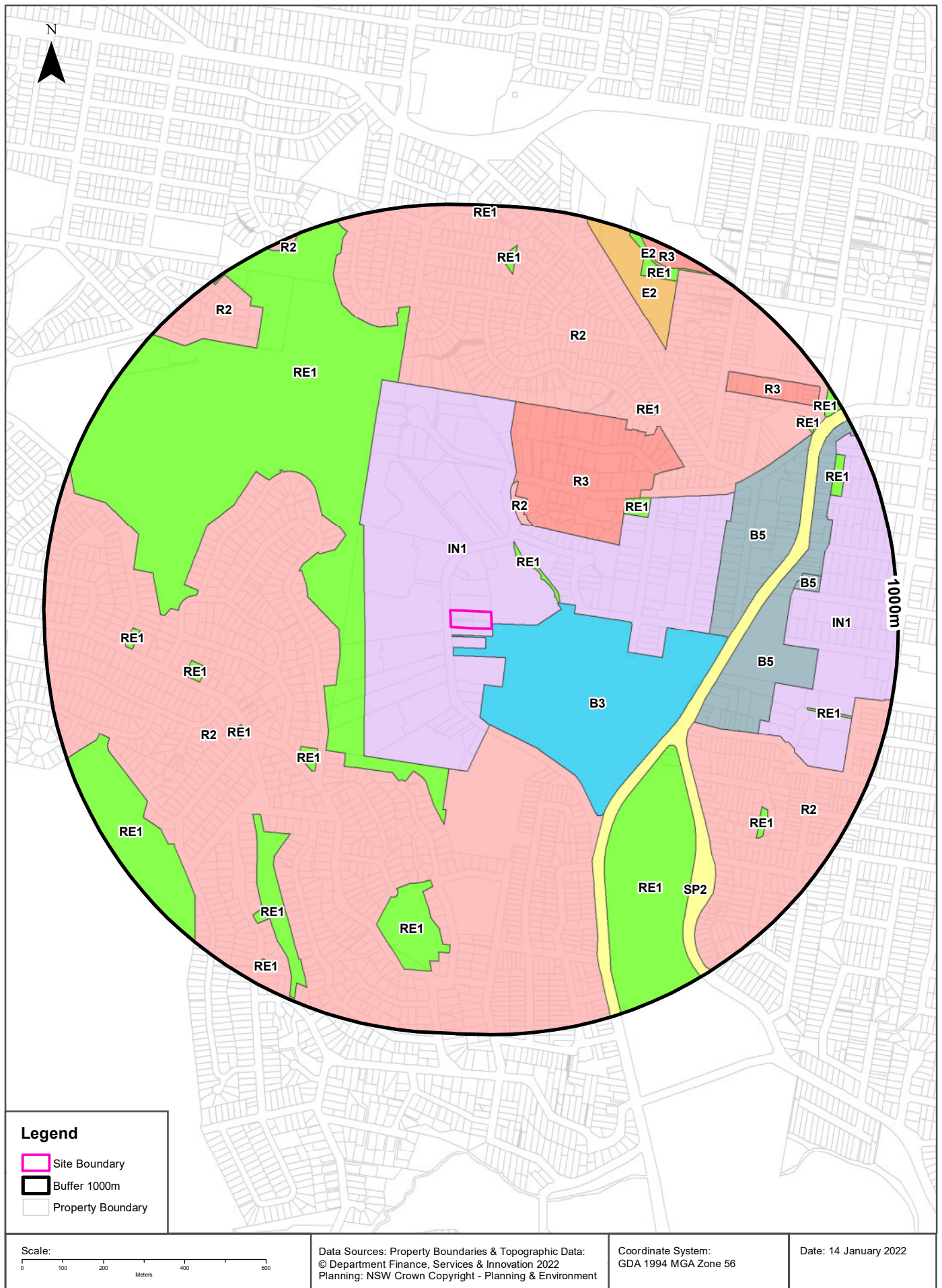
What SEPP State Significant Precincts exist within the dataset buffer?

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

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

99-105 Old Pittwater Road, Brookvale, NSW 2100



# Environmental Planning Instrument

99-105 Old Pittwater Road, Brookvale, NSW 2100

## 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
IN1	General Industrial		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		0m	On-site
B3	Commercial Core		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		0m	South East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		145m	North East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		211m	North West
R2	Low Density Residential		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		231m	North East
R3	Medium Density Residential		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		235m	North East
R2	Low Density Residential		Warringah Local Environmental Plan 2011	24/07/2020	24/07/2020	11/09/2020	Amendment No 26	236m	West
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		407m	North East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		445m	South West
SP2	Infrastructure	Classified Road	Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		492m	South East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		518m	South East
B5	Business Development		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		533m	East
R2	Low Density Residential		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		542m	South East
B5	Business Development		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		546m	East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		568m	South West
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		611m	West
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		624m	South
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		624m	North East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		645m	South West
IN1	General Industrial		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		695m	East
B5	Business Development		Warringah Local Environmental Plan 2011	28/03/2013	28/03/2013	11/09/2020	Amendment No 1	746m	East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		765m	West
E2	Environmental Conservation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		776m	North East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		794m	South East
R3	Medium Density Residential		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		794m	North East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		797m	East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		834m	North
RE1	Public Recreation		Warringah Local Environmental Plan 2011	24/07/2020	24/07/2020	11/09/2020	Amendment No 26	862m	South West

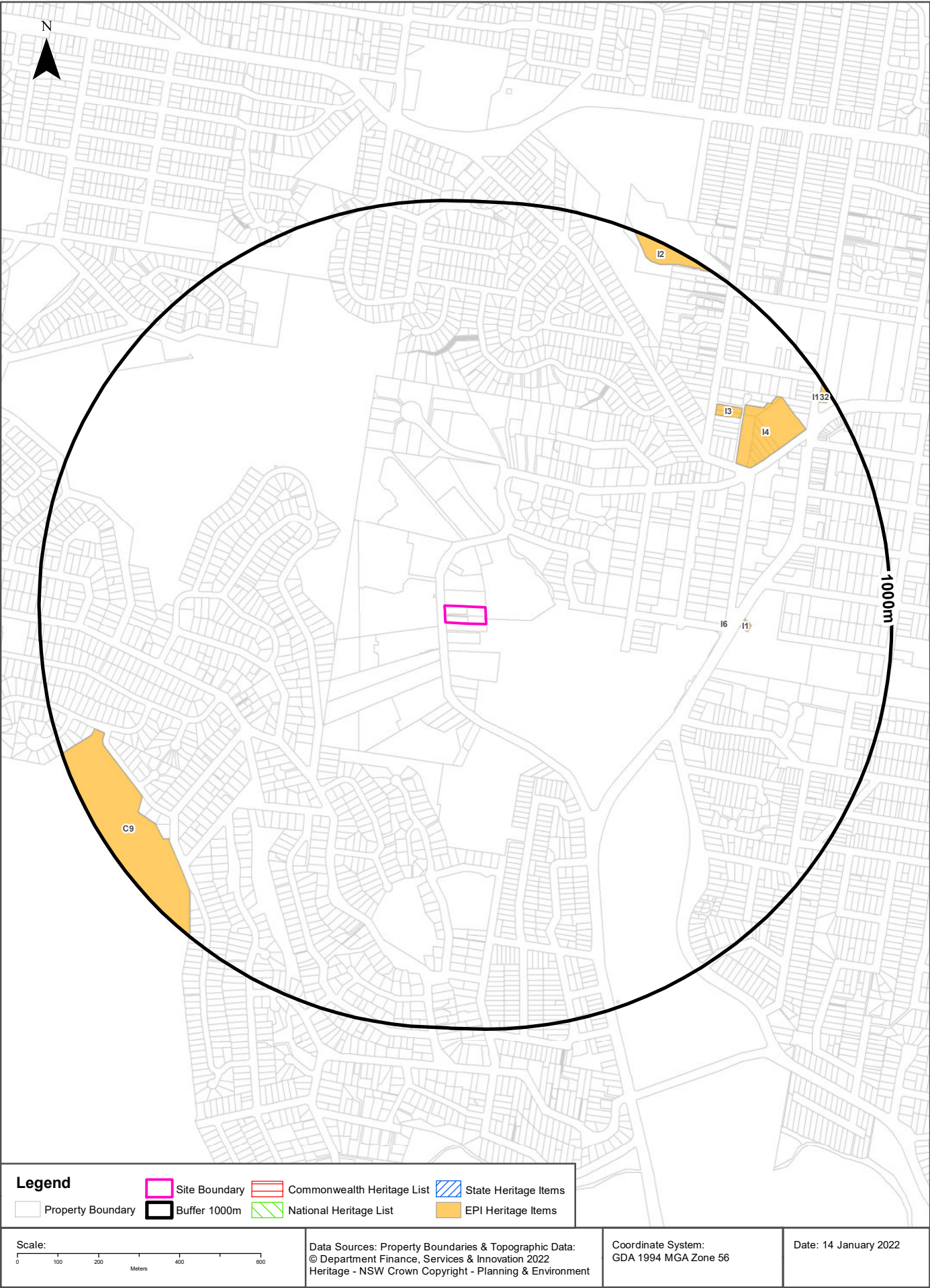


Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		882m	East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		898m	North East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		908m	North East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		939m	South West
E2	Environmental Conservation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		947m	North East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		953m	North East
R3	Medium Density Residential		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		953m	North East
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		980m	North
RE1	Public Recreation		Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	11/09/2020		981m	North

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# Heritage Items

99-105 Old Pittwater Road, Brookvale, NSW 2100



## Heritage

99-105 Old Pittwater Road, Brookvale, NSW 2100

### 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  
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### National Heritage List

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

Note. Please click on Place Id to activate a hyperlink to online website.

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

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

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

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
N/A	No records in buffer							

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

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

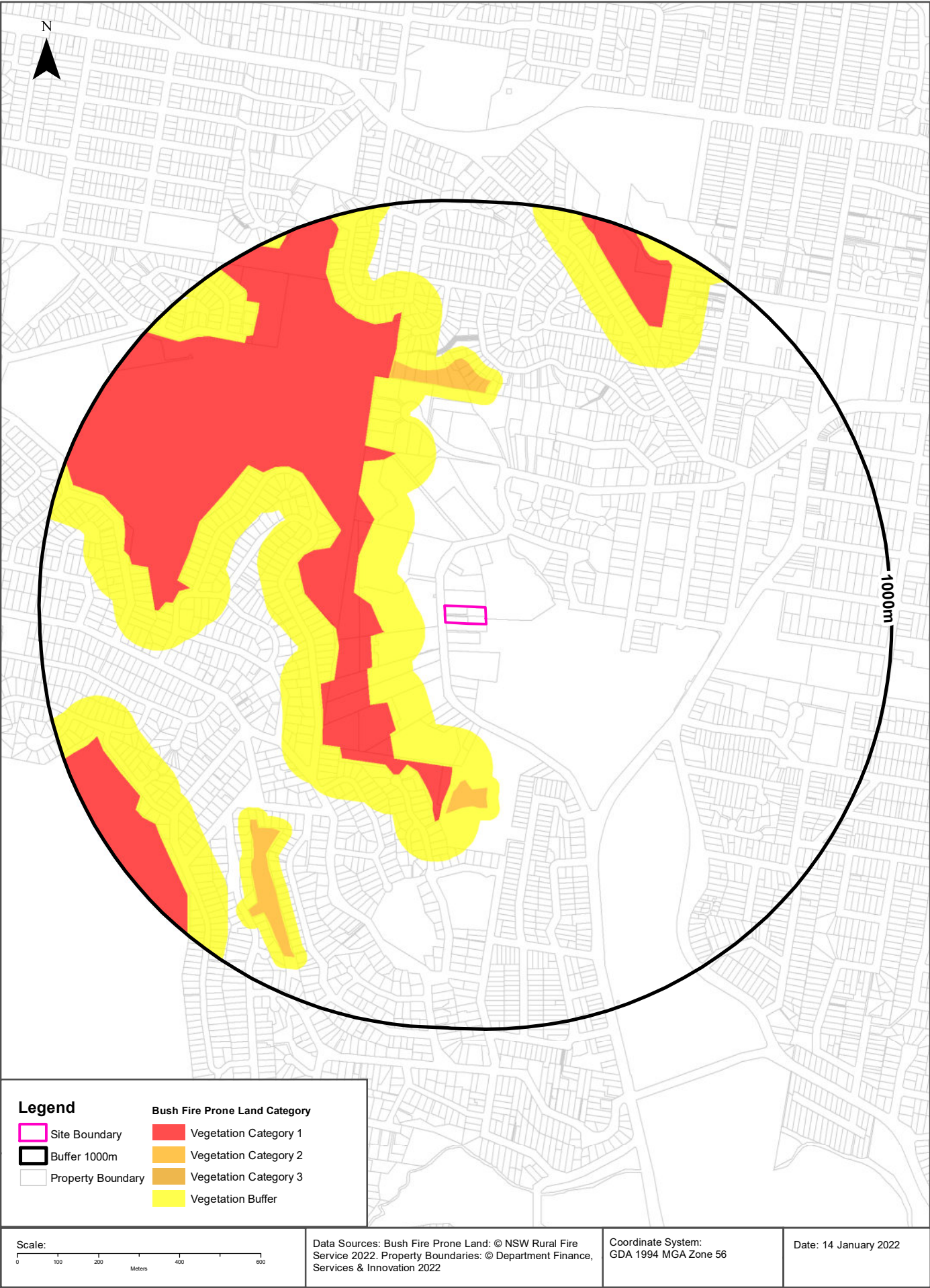
Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I6	Palm Tree & Plaque	Item - Landscape	Local	Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	30/06/2017	580m	East
I1	Tramway Staff War Memorial	Item - General	Local	Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	30/06/2017	625m	East
I4	Brookvale Public School	Item - General	Local	Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	30/06/2017	712m	North East

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I3	House known as Milroy	Item - General	Local	Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	30/06/2017	740m	North East
C9	Manly Dam and Surrounds	Conservation Area - Landscape	Local	Warringah Local Environmental Plan 2011	30/06/2017	30/06/2017	30/06/2017	862m	South West
I2	Former Premises relating to Austral Brickworks	Item - General	Local	Warringah Local Environmental Plan 2011	09/12/2011	09/12/2011	30/06/2017	946m	North East
I132	Brush Box and Camphor Laurel Trees surrounding Brookvale Park	Item - Landscape	Local	Warringah Local Environmental Plan 2011	30/05/2014	30/05/2014	30/06/2017	966m	North East

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## Natural Hazards

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Bush Fire Prone Land

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

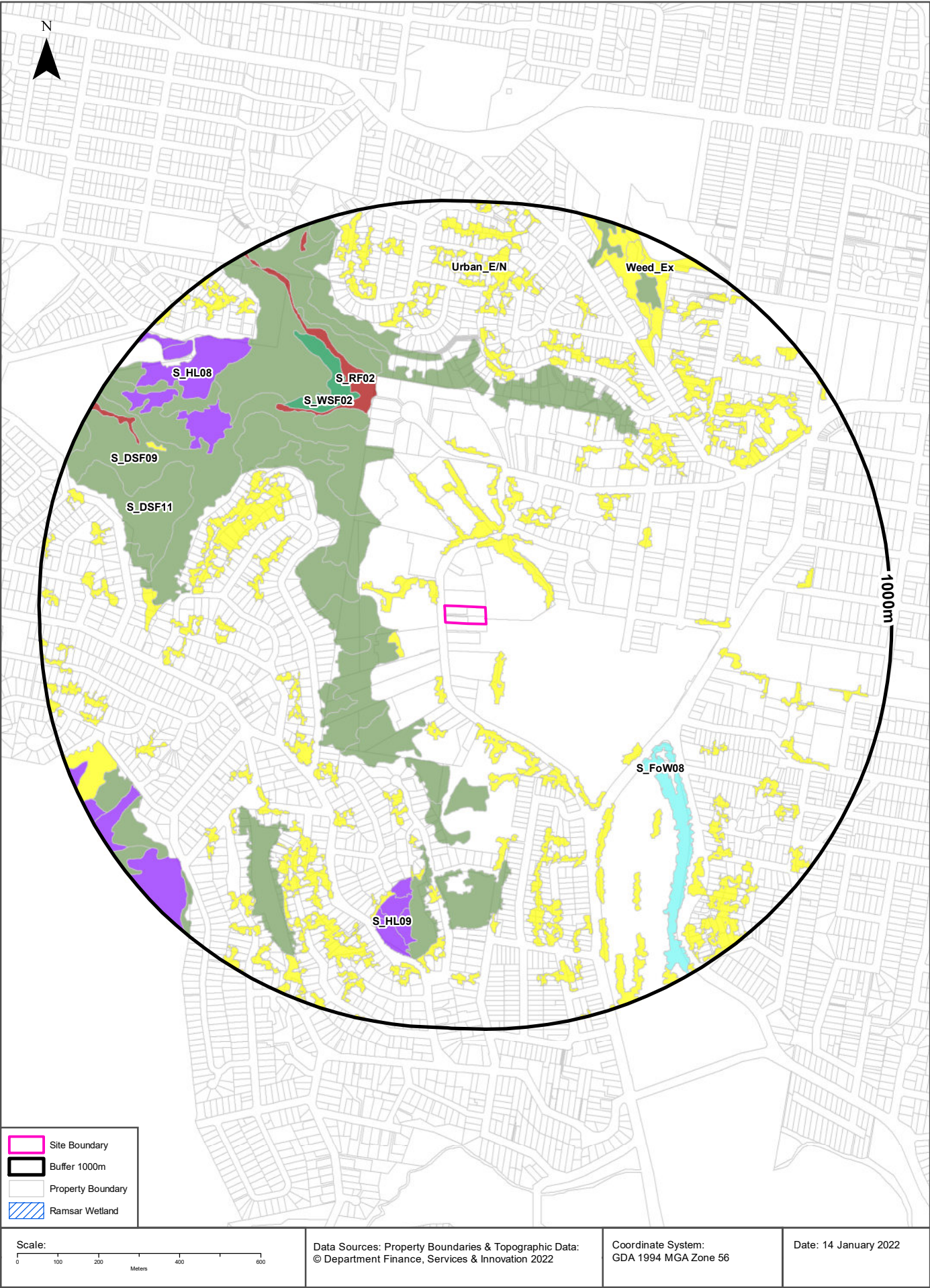
Bush Fire Prone Land Category	Distance	Direction
Vegetation Buffer	53m	North West
Vegetation Category 1	153m	North West
Vegetation Category 2	386m	South

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



# Ecological Constraints - Vegetation & Ramsar Wetlands

99-105 Old Pittwater Road, Brookvale, NSW 2100



# Ecological Constraints

99-105 Old Pittwater Road, Brookvale, NSW 2100

## Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Map Unit Name	Threatened Ecological Community NSW	Threatened Ecological Community EPBC Act	Understorey	Disturbance	Disturbance Index	Dominant Species	Dist	Dir
Weed_Ex	Weed_Ex: Weeds and Exotics			00: Not assessed	00: Not assessed	0: Not assessed	Exotic Species >90%cover	20m	West
Urban_E/N	Urban_E/N: Urban Exotic/Native			00: Not assessed	00: Not assessed	0: Not assessed	Urban Exotic/Native	76m	South East
S_DSF09	S_DSF09: Coastal Sandstone Gully Forest			11: Semi sheltered dry/mesic	13: Weeds	2: Moderate	A.costata/E.piperita/C.gummifera/S.glomulifera/E.resinifera	118m	South West
S_DSF11	S_DSF11: Sydney North Exposed Sandstone Woodland			12: Dry xeric shrubs	13: Weeds	2: Moderate	C.gummifera/E.haemastoma/A.costataE.sieberi	158m	West
S_DSF11	S_DSF11: Sydney North Exposed Sandstone Woodland			12: Dry xeric shrubs	12: Not used	0: Not assessed	C.gummifera/E.haemastoma/A.costataE.sieberi	224m	North West
S_DSF09	S_DSF09: Coastal Sandstone Gully Forest			11: Semi sheltered dry/mesic	13: Weeds	3: High	A.costata/E.piperita/C.gummifera/S.glomulifera/E.resinifera	242m	South West
S_DSF11	S_DSF11: Sydney North Exposed Sandstone Woodland			12: Dry xeric shrubs	13: Weeds	3: High	C.gummifera/E.haemastoma/A.costataE.sieberi	344m	South
S_DSF11	S_DSF11: Sydney North Exposed Sandstone Woodland			19: Dense heath	13: Weeds	3: High	C.gummifera/E.haemastoma/A.costataE.sieberi	435m	South
S_DSF11	S_DSF11: Sydney North Exposed Sandstone Woodland			12: Dry xeric shrubs	19: Clearing/Part clearing	4: Very high	C.gummifera/E.haemastoma/A.costataE.sieberi	447m	North West
S_DSF09	S_DSF09: Coastal Sandstone Gully Forest			11: Semi sheltered dry/mesic	13: Weeds	1: Low	A.costata/E.piperita/C.gummifera/S.glomulifera/E.resinifera	477m	North West
S_DSF09	S_DSF09: Coastal Sandstone Gully Forest			11: Semi sheltered dry/mesic	24: Urban mixed use	4: Very high	A.costata/E.piperita/C.gummifera/S.glomulifera/E.resinifera	486m	North East
S_FoW08	S_FoW08: Estuarine Swamp Oak Forest	Swamp Oak Floodplain Forest		20: Weeds and exotics	20: Previously cleared 1943	3: High	C.glaucia	510m	South East
S_RF02	S_RF02: Coastal Sandstone Gallery Rainforest			10: Mesic/rainforest	13: Weeds	1: Low	C.apetalum/T.laurina/C.serratifolia	512m	North West
S_DSF09	S_DSF09: Coastal Sandstone Gully Forest			11: Semi sheltered dry/mesic	24: Urban mixed use	3: High	A.costata/E.piperita/C.gummifera/S.glomulifera/E.resinifera	522m	North
S_WSF02	S_WSF02: Coastal Enriched Sandstone Moist Forest			10: Mesic/rainforest	13: Weeds	1: Low	A.costata/E.piperita/C.gummifera/S.glomulifera/E.resinifera	556m	North West
S_DSF09	S_DSF09: Coastal Sandstone Gully Forest			11: Semi sheltered dry/mesic	13: Weeds	2: Moderate	A.costata/E.sieberi/E.piperita/C.gummiferaE.resiniferaE.umbra	574m	North West
S_HL09	S_HL09: Coastal Sandstone Rock Plate Heath			19: Dense heath	99: No visible disturbance	5: No visible disturbance	Exposed rockplates with low heath	633m	South
S_DSF11	S_DSF11: Sydney North Exposed Sandstone Woodland			12: Dry xeric shrubs	22: Fire	1: Low	C.gummifera/E.haemastoma/A.costataE.sieberi	672m	West



Map ID	Map Unit Name	Threatened Ecological Community NSW	Threatened Ecological Community EPBC Act	Understorey	Disturbance	Disturbance Index	Dominant Species	Dist	Dir
S_HL08	S_HL08: Coastal Sandstone Heath-Mallee			19: Dense heath	13: Weeds	2: Moderate	A.distyla/B.ericifolia/Leptospermum spp/A.hispida	675m	South
S_HL08	S_HL08: Coastal Sandstone Heath-Mallee			19: Dense heath	22: Fire	1: Low	A.distyla/B.ericifolia/Leptospermum spp/A.hispida	683m	North West
S_DSF11	S_DSF11: Sydney North Exposed Sandstone Woodland			19: Dense heath	22: Fire	1: Low	C.gummifera/E.haemastoma/A.costataE.sieberi	753m	North West
S_HL08	S_HL08: Coastal Sandstone Heath-Mallee			12: Dry xeric shrubs	22: Fire	1: Low	A.distyla/B.ericifolia/Leptospermum spp/A.hispida	781m	North West
S_DSF11	S_DSF11: Sydney North Exposed Sandstone Woodland			12: Dry xeric shrubs	19: Clearing/Part clearing	3: High	C.gummifera/E.haemastoma/A.costataE.sieberi	844m	North East
S_HL08	S_HL08: Coastal Sandstone Heath-Mallee			18: Swampy sedges, shrubs, ferns and herbs	13: Weeds	3: High	A.distyla/B.ericifolia/Leptospermum spp/A.hispida	863m	South West
S_DSF11	S_DSF11: Sydney North Exposed Sandstone Woodland			19: Dense heath	13: Weeds	2: Moderate	C.gummifera/E.haemastoma/A.costataE.sieberi	863m	South West
S_DSF11	S_DSF11: Sydney North Exposed Sandstone Woodland			19: Dense heath	13: Weeds	1: Low	C.gummifera/E.haemastoma/A.costataE.sieberi	867m	South West
S_HL08	S_HL08: Coastal Sandstone Heath-Mallee			19: Dense heath	11: Roads/trails	1: Low	A.distyla/B.ericifolia/Leptospermum spp/A.hispida	880m	South West
S_HL08	S_HL08: Coastal Sandstone Heath-Mallee			19: Dense heath	15: Regrowth	1: Low	A.distyla/B.ericifolia/Leptospermum spp/A.hispida	883m	North West
S_DSF11	S_DSF11: Sydney North Exposed Sandstone Woodland			19: Dense heath	11: Roads/trails	1: Low	C.gummifera/E.haemastoma/A.costataE.sieberi	892m	South West
S_DSF11	S_DSF11: Sydney North Exposed Sandstone Woodland			19: Dense heath	11: Roads/trails	1: Low	E.haemastoma/B.serrata	915m	South West

Native Vegetation of the Sydney Metropolitan Area : NSW Office of Environment and Heritage  
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## Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

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

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

## Ecological Constraints

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer					

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology  
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## Ecological Constraints

99-105 Old Pittwater Road, Brookvale, NSW 2100

### Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer					

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology  
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## Ecological Constraints

99-105 Old Pittwater Road, Brookvale, NSW 2100

### NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	Heleioporus australiacus	Giant Burrowing Frog	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Amphibia	Litoria aurea	Green and Golden Bell Frog	Endangered	Not Sensitive	Vulnerable	
Animalia	Amphibia	Pseudophryne australis	Red-crowned Toadlet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Actitis hypoleucos	Common Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Anous stolidus	Common Noddy	Not Listed	Not Sensitive	Not Listed	CAMBA;JAMBA
Animalia	Aves	Anseranas semipalmata	Magpie Goose	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Anthochaera phrygia	Regent Honeyeater	Critically Endangered	Not Sensitive	Critically Endangered	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Ardenna carneipes	Flesh-footed Shearwater	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Ardenna grisea	Sooty Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ardenna pacifica	Wedge-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ardenna tenuirostris	Short-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Arenaria interpres	Ruddy Turnstone	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Botaurus poiciloptilus	Australasian Bittern	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Burhinus grallarius	Bush Stone-curlew	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Calidris acuminata	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris alba	Sanderling	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris canutus	Red Knot	Not Listed	Not Sensitive	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris ferruginea	Curlew Sandpiper	Endangered	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris ruficollis	Red-necked Stint	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris tenuirostris	Great Knot	Vulnerable	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Calonectris leucomelas	Streaked Shearwater	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calyptorhynchus banksii banksii	Red-tailed Black-Cockatoo (coastal subspecies)	Critically Endangered	Category 2	Not Listed	
Animalia	Aves	Calyptorhynchus banksii samuelli	Red-tailed Black-Cockatoo (inland subspecies)	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Calyptorhynchus lathami	Glossy Black-Cockatoo	Vulnerable	Category 2	Not Listed	



Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Charadrius leschenaultii	Greater Sand-plover	Vulnerable	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Charadrius mongolus	Lesser Sand-plover	Vulnerable	Not Sensitive	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Chlidonias leucopterus	White-winged Black Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Chthonicola sagittata	Speckled Warbler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Cuculus optatus	Oriental Cuckoo	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Diomedea exulans	Wandering Albatross	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Esacus magnirostris	Beach Stone-curlew	Critically Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Eudyptula minor	Little Penguin	Endangered Population	Not Sensitive	Not Listed	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Fregata ariel	Lesser Frigatebird	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Gygis alba	White Tern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haematopus fuliginosus	Sooty Oystercatcher	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haematopus longirostris	Pied Oystercatcher	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hydroprogne caspia	Caspian Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ixobrychus flavicollis	Black Bittern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Lathamus discolor	Swift Parrot	Endangered	Category 3	Critically Endangered	
Animalia	Aves	Limosa lapponica	Bar-tailed Godwit	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Macronectes giganteus	Southern Giant Petrel	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Macronectes halli	Northern Giant-Petrel	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Menura alberti	Albert's Lyrebird	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Numenius madagascariensis	Eastern Curlew	Not Listed	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius phaeopus	Whimbrel	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Onychoprion fuscata	Sooty Tern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Oxyura australis	Blue-billed Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pachycephala olivacea	Olive Whistler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Phaethon lepturus	White-tailed Tropicbird	Not Listed	Not Sensitive	Not Listed	CAMBA;JAMBA
Animalia	Aves	Phaethon rubricauda	Red-tailed Tropicbird	Vulnerable	Not Sensitive	Not Listed	CAMBA;JAMBA
Animalia	Aves	Philomachus pugnax	Ruff	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Phoebastria fusca	Sooty Albatross	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Pluvialis fulva	Pacific Golden Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Vulnerable	Category 3	Vulnerable	
Animalia	Aves	Pterodroma leucoptera leucoptera	Gould's Petrel	Vulnerable	Not Sensitive	Endangered	
Animalia	Aves	Pterodroma solandri	Providence Petrel	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus magnificus	Wompoo Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus regina	Rose-crowned Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus superbus	Superb Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Puffinus assimilis	Little Shearwater	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Stercorarius longicaudus	Long-tailed Jaeger	Not Listed	Not Sensitive	Not Listed	CAMBA;JAMBA
Animalia	Aves	Stercorarius parasiticus	Arctic Jaeger	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Stercorarius pomarinus	Pomarine Jaeger	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Sterna hirundo	Common Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Sternula albifrons	Little Tern	Endangered	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Sula dactylatra	Masked Booby	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Sula leucogaster	Brown Booby	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Thalassarche bulleri	Buller's Albatross	Not Listed	Not Sensitive	Vulnerable	
Animalia	Aves	Thalassarche cauta	Shy Albatross	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Thalassarche melanophrys	Black-browed Albatross	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Thalasseus bergii	Crested Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Thinornis cucullatus cucullatus	Eastern Hooded Dotterel	Critically Endangered	Not Sensitive	Vulnerable	
Animalia	Aves	Todiramphus chloris	Collared Kingfisher	Vulnerable	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Tringa brevipes	Grey-tailed Tattler	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa incana	Wandering Tattler	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa stagnatilis	Marsh Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Tyto tenebricosa	Sooty Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Xenus cinereus	Terek Sandpiper	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Mammalia	Arctocephalus forsteri	New Zealand Fur-seal	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Arctocephalus pusillus doriferus	Australian Fur-seal	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Cercartetus nanus	Eastern Pygmy-possum	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Animalia	Mammalia	Dugong dugon	Dugong	Endangered	Not Sensitive	Not Listed	
Animalia	Mammalia	Eubalaena australis	Southern Right Whale	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Isodon obesulus obesulus	Southern Brown Bandicoot (eastern)	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Megaptera novaeangliae	Humpback Whale	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Micronomus norfolkensis	Eastern Coastal Free-tailed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus australis	Little Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Nyctophilus bifax	Eastern Long-eared Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Perameles nasuta	Long-nosed Bandicoot	Endangered Population	Not Sensitive	Not Listed	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petrogale penicillata	Brush-tailed Rock-wallaby	Endangered	Not Sensitive	Vulnerable	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Endangered Population, Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Physeter macrocephalus	Sperm Whale	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Pseudomys novaehollandiae	New Holland Mouse	Not Listed	Not Sensitive	Vulnerable	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheath-tail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Vespudelus troungtoni	Eastern Cave Bat	Vulnerable	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Reptilia	<i>Aspidites ramsayi</i>	Woma	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	<i>Caretta caretta</i>	Loggerhead Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	<i>Chelonia mydas</i>	Green Turtle	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	<i>Dermochelys coriacea</i>	Leatherback Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	<i>Eretmochelys imbricata</i>	Hawksbill Turtle	Not Listed	Not Sensitive	Vulnerable	
Animalia	Reptilia	<i>Myuchelys bellii</i>	Western Sawshelled Turtle, Bell's Turtle	Endangered	Not Sensitive	Vulnerable	
Animalia	Reptilia	<i>Tiliqua occipitalis</i>	Western Blue-tongued Lizard	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	<i>Uvidicolus sphyrurus</i>	Border Thick-tailed Gecko	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	<i>Varanus rosenbergi</i>	Rosenberg's Goanna	Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	<i>Hygrocybe anomala</i> var. <i>ianthinomarginata</i>		Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	<i>Hygrocybe aurantipes</i>		Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	<i>Hygrocybe austropratensis</i>		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	<i>Hygrocybe collucera</i>		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	<i>Hygrocybe griseoramosa</i>		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	<i>Hygrocybe lanecovensensis</i>		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	<i>Hygrocybe reesiaie</i>		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Acacia bynoeana</i>	Bynoe's Wattle	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Acacia terminalis</i> subsp. <i>Eastern Sydney</i>	Sunshine wattle	Endangered	Not Sensitive	Endangered	
Plantae	Flora	<i>Allocasuarina portuensis</i>	Nielsen Park She-oak	Endangered	Category 3	Endangered	
Plantae	Flora	<i>Asterolasia buxifolia</i>		Endangered	Not Sensitive	Not Listed	
Plantae	Flora	<i>Baeckea kandos</i>		Endangered	Category 3	Endangered	
Plantae	Flora	<i>Caladenia tessellata</i>	Thick Lip Spider Orchid	Endangered	Category 2	Vulnerable	
Plantae	Flora	<i>Callistemon linearifolius</i>	Netted Bottle Brush	Vulnerable	Category 3	Not Listed	
Plantae	Flora	<i>Chamaesyce psammogeton</i>	Sand Spurge	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	<i>Darwinia biflora</i>		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Davidsonia jerseyana</i>	Davidson's Plum	Endangered	Category 2	Endangered	
Plantae	Flora	<i>Deyeuxia appressa</i>		Endangered	Not Sensitive	Endangered	
Plantae	Flora	<i>Epacris purpurascens</i> var. <i>purpurascens</i>		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Eucalyptus camfieldii</i>	Camfield's Stringybark	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Eucalyptus nicholii</i>	Narrow-leaved Black Peppermint	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Eucalyptus scoparia</i>	Wallangarra White Gum	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Euphrasia collina</i> subsp. <i>muelleri</i>	Mueller's Eyebright	Endangered	Not Sensitive	Endangered	



Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Genoplesium baueri	Bauer's Midge Orchid	Endangered	Category 2	Endangered	
Plantae	Flora	Grammitis stenophylla	Narrow-leaf Finger Fern	Endangered	Category 3	Not Listed	
Plantae	Flora	Grevillea caleyi	Caley's Grevillea	Critically Endangered	Category 3	Critically Endangered	
Plantae	Flora	Haloragodendron lucasii		Endangered	Not Sensitive	Endangered	
Plantae	Flora	Hibbertia puberula		Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Hibbertia superans		Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Isotoma fluviatilis subsp. fluviatilis		Not Listed	Not Sensitive	Extinct	
Plantae	Flora	Kunzea rupestris		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Lasiopetalum joyceae		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Leptospermum deanei		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Macadamia integrifolia	Macadamia Nut	Not Listed	Not Sensitive	Vulnerable	
Plantae	Flora	Macadamia tetraphylla	Rough-shelled Bush Nut	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Melaleuca biconvexa	Biconvex Paperbark	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Melaleuca deanei	Deane's Paperbark	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Microtis angusii	Angus's Onion Orchid	Endangered	Category 2	Endangered	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Endangered	Category 3	Endangered	
Plantae	Flora	Persoonia laxa		Presumed Extinct	Not Sensitive	Extinct	
Plantae	Flora	Pimelea curviflora var. curviflora		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Prasophyllum fuscum	Slaty Leek Orchid	Critically Endangered	Category 2	Vulnerable	
Plantae	Flora	Prostanthera densa	Villous Mint-bush	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Prostanthera marifolia	Seaforth Mintbush	Critically Endangered	Category 3	Critically Endangered	
Plantae	Flora	Rhodamnia rubescens	Scrub Turpentine	Critically Endangered	Not Sensitive	Critically Endangered	
Plantae	Flora	Sarcophilus hartmannii	Hartman's Sarcophilus	Vulnerable	Category 2	Vulnerable	
Plantae	Flora	Senecio spathulatus	Coast Groundsel	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Tetratheca glandulosa		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Tetratheca juncea	Black-eyed Susan	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Thesium australe	Austral Toadflax	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Triplarina imbricata	Creek Triplarina	Endangered	Not Sensitive	Endangered	

Data does not include NSW category 1 sensitive species.

NSW BioNet: © State of NSW and Office of Environment and Heritage

## 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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  - (g) neither Lotsearch nor Third Party Content Suppliers warrants that all land uses or features whether past or current are identified in the Report;
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  - (j) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
  - (k) the End User should undertake its own inspections of the Land or Property to satisfy itself that there are no defects or failures
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    - (b) any loss of profit, loss of revenue, loss of interest, loss of data, loss of goodwill or loss of business opportunities, business interruption arising directly or indirectly out of or in relation to the Report or these Terms,irrespective of how that liability arises including in contract or tort, liability under indemnity or for any other common law, equitable or statutory cause of action or otherwise.
  12. These Terms are subject to New South Wales law.





## Land Title Records



ABN: 36 092 724 251  
Ph: 02 9099 7400  
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney  
Sydney 2000  
GPO Box 4103 Sydney NSW 2001  
DX 967 Sydney

**Summary of Owners Report**

**Address: 99-105 Old Pittwater Road, Brookvale, NSW 2100**

**Description: - Lots 1 & 3 D.P. 402645 & Lots 2 & 4 D.P. 402645 (Auto Consol 7427-42)**

**As regards to the whole of the land:**

<b><u>Date of Acquisition and term held</u></b>	<b><u>Registered Proprietor(s) &amp; Occupations where available</u></b>	<b><u>Reference to Title at Acquisition and sale</u></b>
13.09.1922 (1922 to 1946)	Marion Rachel Grace (Married Woman)	Volume 3363 Folio 101
13.05.1946 (1946 to 1950)	Arthur Edward Starr (Maintenance Man)	Volume 3363 Folio 101
06.04.1950 (1950 to 1952)	Peter Maurice Goldston (Engineer) Gregory Givorchner (Paint Manufacturer)	Volume 3363 Folio 101 Now Volume 6194 Folios 218 to 219
05.12.1952 (1952 to 1954)	Peter Maurice Goldston (Engineer)	Volume 6194 Folios 218 to 219 Now Volume 6743 Folio 102
04.03.1954 (1954 to 1957)	Interstate Rubber Company Pty Limited	Volume 6743 Folio 102

**Continued as regards to Lot 1 D.P. 402645: -**

<b><u>Date of Acquisition and term held</u></b>	<b><u>Registered Proprietor(s) &amp; Occupations where available</u></b>	<b><u>Reference to Title at Acquisition and sale</u></b>
23.08.1957 (1957 to 1960)	Frederick Charles Fleming (Manufacturer)	Volume 6743 Folio 102 Then Volume 7427 Folio 44 Now Volume 7716 Folio 189
26.10.1960 (1960 to 1967)	Lotus (N.S.W.) Manufacturing Pty. Limited	Volume 7716 Folio 189
04.07.1967 (1967 to 1997)	Vale Credits Pty. Limited	Volume 7716 Folio 189 Now 1/402645
09.05.1997 (1997 to Date)	# Veloday Pty Limited	1/402645

**# Denotes current registered proprietor**

**Leases: -**

- 01.11.1967 (K975150): Lease to Wentworth Shields Industries Pty. Limited.

**Easements: - NIL**

Email: [mark.groll@infotrack.com.au](mailto:mark.groll@infotrack.com.au)  
Email: [taylor.wilson@infotrack.com.au](mailto:taylor.wilson@infotrack.com.au)



ABN: 36 092 724 251  
Ph: 02 9099 7400  
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney  
Sydney 2000  
GPO Box 4103 Sydney NSW 2001  
DX 967 Sydney

**Continued as regards to Lot 3 D.P. 402645: -**

<b><u>Date of Acquisition and term held</u></b>	<b><u>Registered Proprietor(s) &amp; Occupations where available</u></b>	<b><u>Reference to Title at Acquisition and sale</u></b>
23.08.1957 (1957 to 1958)	Frederick Charles Fleming (Manufacturer)	Volume 6743 Folio 102 Now Volume 7427 Folio 44
30.06.1958 (1958 to 1962)	L.R. Agnew Products Pty. Limited	Volume 7427 Folio 44 Now Volume 7597 Folio 248
23.07.1962 (1962 to 1968)	L.R. Agnew Constructions Pty. Limited	Volume 7597 Folio 248
25.10.1968 (1968 to 1980)	Marjorie Berry Whiddon (Married Woman)	Volume 7597 Folio 248
22.09.1980 (1980 to 1984)	Channon Investments Pty Limited	Volume 7597 Folio 248
24.01.1984 (1984 to 1986)	Nolde Pty. Limited	Volume 7597 Folio 248
03.10.1986 (1986 to Date)	# Maydare Pty. Limited	Volume 7597 Folio 248 Now 3/402645

**# Denotes current registered proprietor**

**Leases: - NIL**

**Easements: -**

- 30.06.1958 (H18323): Right of Carriageway & Footway affecting the land shown so burdened in the title diagram.
- 14.11.2000 (D.P. 1017692): Easement to drain water 2 metre(s) wide and variable affecting the part(s) shown so burdened in D.P. 1017692.



ABN: 36 092 724 251  
Ph: 02 9099 7400  
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney  
Sydney 2000  
GPO Box 4103 Sydney NSW 2001  
DX 967 Sydney

**Continued as regards to Lots 2 & 4 D.P. 402645 (Auto Consol 7427-42): -**

<b><u>Date of Acquisition and term held</u></b>	<b><u>Registered Proprietor(s) &amp; Occupations where available</u></b>	<b><u>Reference to Title at Acquisition and sale</u></b>
18.01.1957 (1957 to 1962)	L.R. Agnew Products Pty. Limited	Volume 6743 Folio 102 Now Volume 7427 Folio 42
23.07.1962 (1962 to 1968)	L.R. Agnew Constructions Pty. Limited	Volume 7427 Folio 42
25.10.1968 (1968 to 1980)	Marjorie Berry Whiddon (Married Woman)	Volume 7427 Folio 42
22.09.1980 (1980 to 1984)	Channon Investments Pty Limited	Volume 7427 Folio 42
24.01.1984 (1984 to 1986)	Nolde Pty. Limited	Volume 7427 Folio 42
03.10.1986 (1986 to Date)	# Maydare Pty. Limited	Volume 7427 Folio 42 Now Auto Consol 7427-42

**# Denotes current registered proprietor**

**Leases, excluding premises: - NIL**

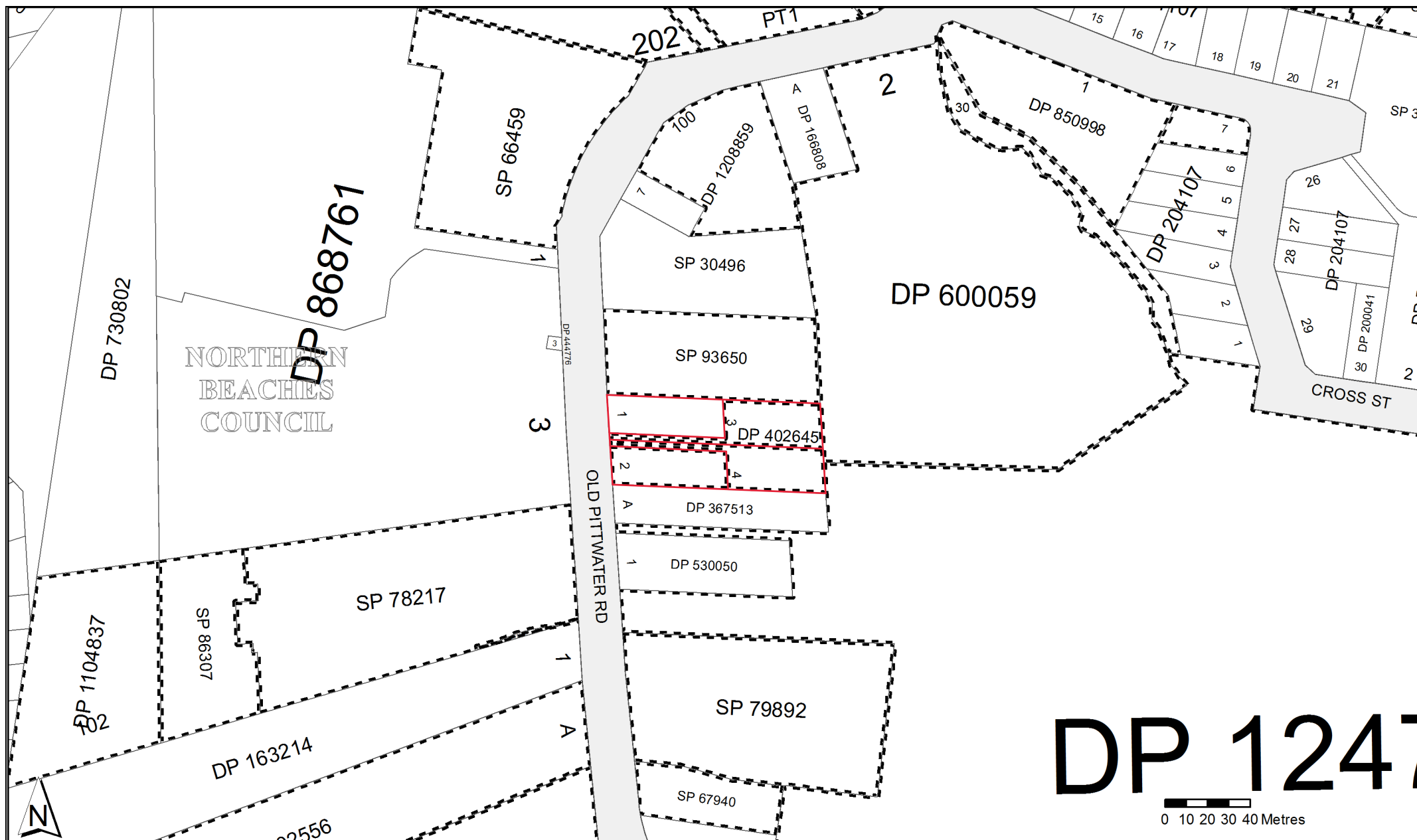
**Easements: -**

- 30.06.1958 (H18884): Right of Carriageway & Footway affecting the part of Lot 4 shown as site of proposed right of way 9 feet 11 ¼ inches wide in D.P. 402645.
- 14.11.2000 (D.P. 1017692): Easement to drain water 2 metre(s) wide and variable affecting the part in Lot 4 of D.P. 402645 shown so burdened in D.P. 1017692.





























---

Yours Sincerely,  
Taylor Wilson  
18<sup>th</sup> December 2022

Email: [mark.groll@infotrack.com.au](mailto:mark.groll@infotrack.com.au)  
Email: [taylor.wilson@infotrack.com.au](mailto:taylor.wilson@infotrack.com.au)





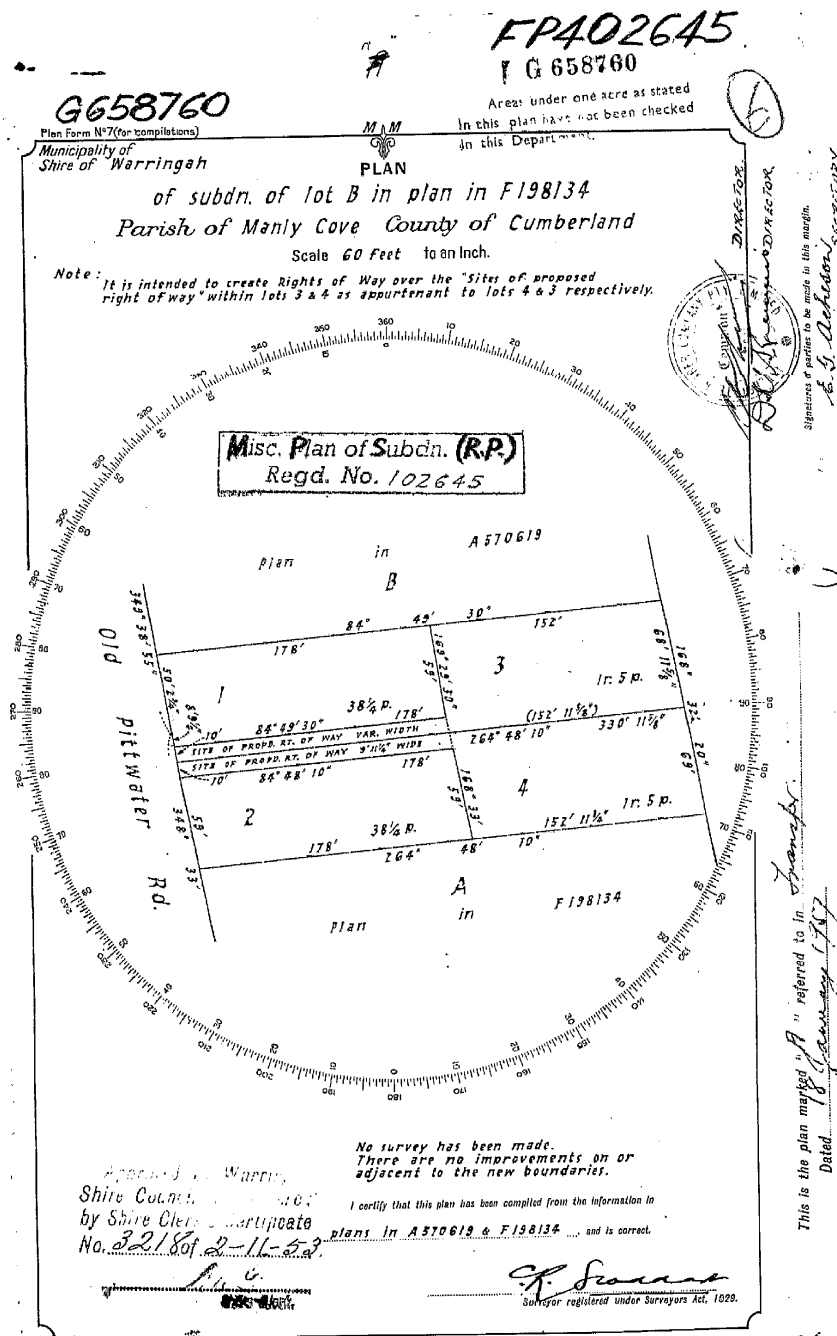
	Status	Surv/Comp	Purpose
DP35184 Lot(s): 24, 25  DP1084731	REGISTERED	SURVEY	CONSOLIDATION
DP204107 Lot(s): 30  DP1245805	REJECTED	SURVEY	EASEMENT
Lot(s): 7  DP1096393	REGISTERED	SURVEY	EASEMENT
DP402556 Lot(s): A  DP1146661	REGISTERED	SURVEY	SUBDIVISION
 DP1164162	PRE-ALLOCATED	UNAVAILABLE	SUBDIVISION
DP402645 Lot(s): 3  DP1219080	REGISTERED	SURVEY	REDEFINITION
Lot(s): 2, 3, 4  DP1017692	REGISTERED	SURVEY	EASEMENT
DP502152 Lot(s): 1  DP1275070	REGISTERED	COMPILATION	EASEMENT
DP600059 Lot(s): 2  DP1017692	REGISTERED	SURVEY	EASEMENT
 DP1245805	REJECTED	SURVEY	EASEMENT
DP656393 Lot(s): 2  DP1275070	REGISTERED	COMPILATION	EASEMENT
DP707605 Lot(s): 202  DP267565	REGISTERED	SURVEY	EASEMENT
DP850998 Lot(s): 1  DP1096393	REGISTERED	SURVEY	EASEMENT
 DP1161781	REGISTERED	SURVEY	EASEMENT
DP1104837 Lot(s): 102  DP163214	HISTORICAL	SURVEY	UNRESEARCHED
 DP1072696	HISTORICAL	SURVEY	CONSOLIDATION
 DP1152069	REGISTERED	COMPILATION	DEPARTMENTAL
 SP78217	REGISTERED	COMPILATION	PART STRATA
 NSW GAZ. 29-05-2009 Folio : 2490 ACQUIRED FOR COUNCIL PURPOSES LOT 102 DP1104837			
DP1208859 Lot(s): 100  DP29429	HISTORICAL	SURVEY	UNRESEARCHED
 DP207777	HISTORICAL	COMPILATION	SUBDIVISION
DP1247294 Lot(s): 103  DP1015283	HISTORICAL	SURVEY	CONSOLIDATION
 DP1260195	REGISTERED	SURVEY	EASEMENT
SP22139  DP267565	REGISTERED	SURVEY	EASEMENT
SP66459  DP868761	HISTORICAL	SURVEY	SUBDIVISION
SP67940  DP545909	HISTORICAL	SURVEY	SUBDIVISION
SP68478  DP35184	HISTORICAL	SURVEY	SUBDIVISION
 DP1043505	HISTORICAL	SURVEY	CONSOLIDATION

**Caution:** 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.

AMENDMENTS OR ADDITIONS NOTED ON PLAN  
IN REGISTRAR GENERAL'S OFFICE.

I, Bruce Richard Davies, Registrar-General for New South Wales, certify that this register is a photograph made on a permanent record of a document in my custody this 15th day of March, 1980.

1



CONVERSION TABLE ADDED IN DEPARTMENT OF LANDS

DP 402645

FEET	INCHES	METRES
-	1 1/4	0.032
4	9 5/8	1.464
8	9 1/4	2.673
9	11 1/4	3.029
10	-	3.048
15	2 3/8	4.632
17	9 5/8	5.426
49	-	14.935
50	2 3/4	15.310
59	-	17.983
68	11 5/8	21.022
69	-	21.031
152	-	46.330
152	11 5/8	46.625
152	11 3/4	46.628
178	-	54.254
300	11 5/8	91.735
330	11 5/8	100.879
354	7 1/2	108.890
20068	11 5/8	6117.022

AC	RD	P	SQ M
-	38	1/4	967.5
-	1	5	1138



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

17/1/2022 8:16PM

FOLIO: 1/402645

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

Prior Title(s): VOL 7716 FOL 189

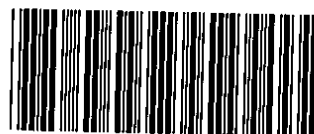
Recorded -----	Number -----	Type of Instrument -----	C.T. Issue -----
27/11/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
1/5/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
9/5/1997	3047100	DISCHARGE OF MORTGAGE	
9/5/1997	3047101	TRANSFER	
9/5/1997	3047102	MORTGAGE	EDITION 1
26/8/1997		AMENDMENT: LOCAL GOVT AREA	
9/9/2018	AN695392	DEPARTMENTAL DEALING	EDITION 2 CORD ISSUED
7/12/2021	AR691291	CAVEAT	EDITION 3

\*\*\* END OF SEARCH \*\*\*



# TRANSFER

Real Property Act, 1900



3047101 D

250397 7528 04 201247772/03  
N.S.W. STAMP DUTY \$2,00

Office of Sta

(A) **LAND TRANSFERRED**

Show no more than 20 References to Title.  
If appropriate, specify the share transferred.

Folio Identifier 1/402645

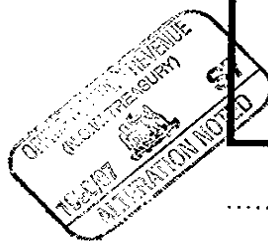
(B) **LODGED BY**

L.T.O. Box

Name, Address or DX and Telephone

USA  
NATIONAL AUSTRALIA BANK HOUSE  
CHURCH STREET, SYDNEY  
237-1100

REFERENCE (max. 15 characters): FC6202



(C) **TRANSFEROR**

VALE CREDITS PTY LIMITED ACN 000 153 631

(D) acknowledges receipt of the consideration of \$675,000.00

and as regards the land specified above transfers to the Transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES** 1. 2. 3.

(F) **TRANSFeree**

<b>T</b> <b>TS</b> (s713 LGA) <b>TW</b> (Sheriff)	<b>VELODAY PTY LIMITED ACN 077 392 897</b> <b>TENANCY:</b>
---	---

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900. DATED 1. 4. 1997

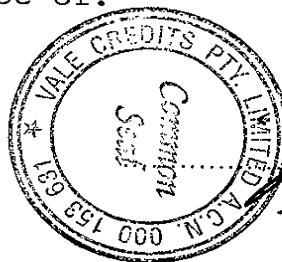
Signed in my presence by the Transferor who is personally known to me:

THE COMMON SEAL of VALE CREDITS PTY LIMITED  
was hereunto affixed in the presence of:

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness



*[Signature]*  
DIRECTOR  
*[Signature]*  
Signature of Transferor  
DIRECTOR

Signed in my presence by the Transferee who is personally known to me.

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness

*[Signature]*  
Signature of Transferee's solicitor

P.D. KENNETT.

CHECKED BY (office use only)

INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE



FOLIO: 1/402645

SEARCH DATE	TIME	EDITION NO	DATE
17/1/2022	8:07 PM	3	7/12/2021

LAND

LOT 1 IN DEPOSITED PLAN 402645

LOCAL GOVERNMENT AREA NORTHERN BEACHES

PARISH OF MANLY COVE COUNTY OF CUMBERLAND

TITLE DIAGRAM DP402645

FIRST SCHEDULE

VELODAY PTY LIMITED

(T 3047101)

SECOND SCHEDULE (5 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 H18323 RIGHT OF CARRIAGEWAY AND FOOTWAY APPURTENANT TO  
THE LAND ABOVE DESCRIBED AFFECTING THE PART OF THE  
LAND SHOWN SO BURDENED IN VOL 7716 FOL 189
- 3 H18884 RIGHT OF FOOTWAY AND CARRIAGEWAY APPURTENANT TO  
THE LAND ABOVE DESCRIBED AFFECTING THE PART OF THE  
LAND SHOWN SO BURDENED IN VOL 7716 FOL 189
- 4 3047102 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED
- \* 5 AR691291 CAVEAT BY BROOKVALE STUDIOS PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

\*\*\* END OF SEARCH \*\*\*





NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

17/1/2022 8:16PM

FOLIO: 3/402645

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

Prior Title(s): VOL 7597 FOL 248

Recorded -----	Number -----	Type of Instrument -----	C.T. Issue -----
27/11/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
28/4/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
26/10/1992	E848192	MORTGAGE	EDITION 1
26/8/1997		AMENDMENT: LOCAL GOVT AREA	
27/2/1998	3823556	DISCHARGE OF MORTGAGE	
27/2/1998	3823557	DISCHARGE OF MORTGAGE	
27/2/1998	3823558	MORTGAGE	EDITION 2
14/11/2000	DP1017692	DEPOSITED PLAN	
9/5/2016	DP1219080	DEPOSITED PLAN	
9/9/2018	AN695392	DEPARTMENTAL DEALING	EDITION 3 CORD ISSUED
7/12/2021	AR691292	CAVEAT	EDITION 4

\*\*\* END OF SEARCH \*\*\*



FOLIO: 3/402645

SEARCH DATE	TIME	EDITION NO	DATE
17/1/2022	8:07 PM	4	7/12/2021

LAND

LOT 3 IN DEPOSITED PLAN 402645

LOCAL GOVERNMENT AREA NORTHERN BEACHES

PARISH OF MANLY COVE COUNTY OF CUMBERLAND

TITLE DIAGRAM DP402645

FIRST SCHEDULE

MAYDARE PTY LIMITED

(T W542488)

SECOND SCHEDULE (7 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 H18323 RIGHT OF CARRIAGEWAY & FOOTWAY AFFECTING THE LAND  
SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 3 3823558 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED
- 4 DP1017692 EASEMENT TO DRAIN WATER 2 METRE(S) WIDE AND VARIABLE  
AFFECTING THE PART(S) SHOWN SO BURDENED IN DP1017692
- 5 DP1017692 POSITIVE COVENANT REFERRED TO AND NUMBERED (2) IN THE  
S. 88B INSTRUMENT
- 6 DP1219080 EASEMENT FOR ENCROACHING STRUCTURE(S) TO REMAIN  
VARIABLE WIDTH (LIMITED IN STRATUM) APPURTENANT TO THE  
LAND ABOVE DESCRIBED
- \* 7 AR691292 CAVEAT BY BROOKVALE STUDIOS PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

\*\*\* END OF SEARCH \*\*\*



LAND  
REGISTRY  
SERVICES

# Historical Title



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

17/1/2022 8:15PM

FOLIO: AUTO CONSOL 7427-42

Recorded	Number	Type of Instrument	C.T. Issue
29/9/1992		CONSOL HISTORY RECORD CREATED FOR AUTO CONSOL 7427-42	

PARCELS IN CONSOL ARE:  
2/402645, 4/402645.

26/10/1992	E848192	MORTGAGE	EDITION 1
27/2/1998	3823545	DISCHARGE OF MORTGAGE	
27/2/1998	3823546	DISCHARGE OF MORTGAGE	
27/2/1998	3823558	MORTGAGE	EDITION 2
14/11/2000	DP1017692	DEPOSITED PLAN	
18/12/2000	7062532	POSITIVE COVENANT	
9/9/2018	AN695392	DEPARTMENTAL DEALING	EDITION 3 CORD ISSUED
7/12/2021	AR691290	CAVEAT	EDITION 4

\*\*\* END OF SEARCH \*\*\*



FOLIO: AUTO CONSOL 7427-42

SEARCH DATE	TIME	EDITION NO	DATE
17/1/2022	8:07 PM	4	7/12/2021

LAND

LAND DESCRIBED IN SCHEDULE OF PARCELS

LOCAL GOVERNMENT AREA NORTHERN BEACHES  
PARISH OF MANLY COVE COUNTY OF CUMBERLAND  
TITLE DIAGRAM DP402645

FIRST SCHEDULE

MAYDARE PTY. LIMITED

(T W542488)

SECOND SCHEDULE (7 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 H18884 RIGHT OF CARRIAGEWAY & FOOTWAY AFFECTING THE PART OF LOT 4 SHOWN AS SITE OF PROPOSED RIGHT OF WAY 9 FEET 11 1/4 INCHES WIDE IN DP402645
- 3 3823558 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED
- 4 DP1017692 EASEMENT TO DRAIN WATER 2 METRE(S) WIDE AND VARIABLE AFFECTING THE PART IN LOT 4 OF DP402645 SHOWN SO BURDENED IN DP1017692
- 5 DP1017692 POSITIVE COVENANT REFERRED TO AND NUMBERED (2) IN THE S. 88B INSTRUMENT AS REGARDS LOT 4 OF DP402645
- 6 7062532 POSITIVE COVENANT AS REGARDS LOT 2 IN DP402645
- \* 7 AR691290 CAVEAT BY BROOKVALE STUDIOS PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

SCHEDULE OF PARCELS

LOT 2 IN DP402645  
LOT 4 IN DP402645.

\*\*\* END OF SEARCH \*\*\*



## **Section 10.7 Certificate**



## Northern Beaches Council Planning Certificate – Part 2&5

**Applicant:** Eis & Jk Group  
115 Wicks Road  
MACQUARIE PARK NSW 2113

**Reference:** E34695PR  
**Date:** 13/01/2022  
**Certificate No.** ePLC2022/00127

**Address of Property:** 101 Old Pittwater Road BROOKVALE NSW 2100  
**Description of Property:** Lot 2 DP 402645

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## Planning Certificate – Part 2

The following certificate is issued under the provisions of Section 10.7(2) of the *Environmental Planning and Assessment Act 1979* (as amended – formerly Section 149). The information applicable to the land is accurate as at the above date.

### **1. Relevant planning instruments and Development Control Plans**

**1.1 The name of each environmental planning instrument that applies to the carrying out of development on the land:**

**1.1a) Local Environmental Plan**

Warringah Local Environmental Plan 2011

**1.1b) State Environmental Planning Policies and Regional Environmental Plans**

State Environmental Planning Policy 19 – Bushland in Urban Areas  
State Environmental Planning Policy 33 – Hazardous and Offensive Development  
State Environmental Planning Policy 50 – Canal Estate Development  
State Environmental Planning Policy 55 – Remediation of Land  
State Environmental Planning Policy 64 – Advertising and Signage  
State Environmental Planning Policy 65 – Design Quality of Residential Apartment Development  
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004  
State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017  
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008  
State Environmental Planning Policy (Infrastructure) 2007  
State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007  
State Environmental Planning Policy (State and Regional Development) 2011  
State Environmental Planning Policy (State Significant Precincts) 2005

State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017  
 State Environmental Planning Policy (Primary Production and Rural Development) 2019  
 State Environmental Planning Policy (Koala Habitat Protection) 2019  
 State Environmental Planning Policy (Housing) 2021  
 Sydney Regional Environmental Plan No 20-Hawkesbury-Nepean River (No 2-1997)  
 Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005  
 Sydney Regional Environmental Plan No 9-Extractive Industry (No 2-1995)

## 1.2 Draft Environmental Planning Instruments

The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been subject of community consultation or on public exhibition under the Act (unless the Secretary has notified the Council that the making of the proposed instrument has been deferred indefinitely or has not been approved):

### 1.2 a) Draft State Environmental Planning Policies

Draft State Environmental Planning Policy (Environment)  
 Draft State Environmental Planning Policy (Short-term Rental Accommodation) 2019  
 Amendment to State Environmental Planning Policy (Exempt and Complying Development Codes) 2008  
 Draft Remediation of Land State Environmental Planning Policy (intended to replace State Environmental Planning Policy 55)  
 Draft Design and Place State Environmental Planning Policy (DP SEPP) 2021

### 1.2 b) Draft Local Environmental Plans

#### **Planning Proposal - Manly Warringah War Memorial State Park (Wakehurst Parkway, Allambie Heights)**

**Applies to: Crown Land:** Lots 76 and 77 DP 504237; Lot 2 DP 710023.

**Outline:** Proposed amendment to WLEP 2011 to:

- Amend Land Zoning Map to change the zoning from R2 (Low Density Residential) to RE1 (Public Recreation) for Lots 76 and 77 DP 504237, Lot 2 DP 710023.
- Amend Height of Building Map and Minimum Lot Size Map to remove the residential development standards for height and minimum lot size from all of the subject lots.

**Council resolution:** 28 May 2019, 29 September 2020

**Gateway Determination:** 21 February 2021

#### **Planning Proposal - Pittwater Road and Albert Street, Narrabeen**

**Applies to:** 1294 - 1300 Pittwater Road and 2 - 4 Albert Street, Narrabeen

**Outline:** Amends WLEP 2011 to:

- Amend Warringah LEP 2011 Height of Buildings Map from 8.5m to 12m at 1298 and 1300 Pittwater Rd and from 8.5 to 11m at 1294, 1296 Pittwater Road and 4 Albert St Narrabeen.
- Amend Schedule 1 to allow 'medical centre', 'commercial premises' and 'shop top housing' as additional permitted uses at 1298 and 1300 Pittwater Rd Narrabeen.
- To implement Council's adopted Affordable Housing Contributions Scheme and to amend Warringah DCP 2011 for the subject site. at 2 Albert Street and 1294 Pittwater Road Narrabeen

## 1.3 Development Control Plans

The name of each development control plan that applies to the carrying out of development on the land:

Warringah Development Control Plan 2011

## **2. Zoning and land use under relevant Local Environmental Plans**

For each environmental planning instrument or proposed instrument referred to in Clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

### **2.1 Zoning and land use under relevant Local Environmental Plans**

#### **2.1 (a), (b), (c) & (d)**

The following information identifies the purposes for which development may be carried out with or without development consent and the purposes for which the carrying out of development is prohibited, for all zones (however described) affecting the land to which the relevant Local Environmental Plan applies.

#### **EXTRACT FROM WARRINGAH LOCAL ENVIRONMENTAL PLAN 2011**

##### **Zone IN1 General Industrial**

#### **1 Objectives of zone**

- To provide a wide range of industrial and warehouse land uses.
- To encourage employment opportunities.
- To minimise any adverse effect of industry on other land uses.
- To support and protect industrial land for industrial uses.
- To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.
- To enable a range of compatible community and leisure uses.
- To maintain the industrial character of the land in landscaped settings.

#### **2 Permitted without consent**

Nil

#### **3 Permitted with consent**

Boat building and repair facilities; Depots; Freight transport facilities; Garden centres; General industries; Hardware and building supplies; Industrial retail outlets; Industrial training facilities; Light industries; Liquid fuel depots; Neighbourhood shops; Places of public worship; Roads; Storage premises; Take away food and drink premises; Timber yards; Vehicle body repair workshops; Vehicle repair stations; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

#### **4 Prohibited**

Advertising structures; Agriculture; Air transport facilities; Amusement centres; Animal boarding or training establishments; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Eco-tourist facilities; Educational establishments; Entertainment facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Forestry; Function centres; Health services

facilities; Heavy industrial storage establishments; Heavy industries; Highway service centres; Home-based child care; Home businesses; Home occupations; Home occupations (sex services); Information and education facilities; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Recreation facilities (major); Recreation facilities (outdoor); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Tourist and visitor accommodation; Veterinary hospitals; Water recreation structures; Wharf or boating facilities

### **Additional permitted uses**

Additional permitted uses, if any, for which development is permissible with development consent pursuant to Clause 2.5 and Schedule 1 of the relevant Local Environmental Plan:

Nil

### **(e) Minimum land dimensions**

The *Warringah Local Environmental Plan 2011* contains no development standard that fixes minimum land dimensions for the erection of a dwelling house on the land.

### **(f) Critical habitat**

The land does not include or comprise critical habitat.

### **(g) Conservation areas**

The land is not in a heritage conservation area.

### **(h) Item of environmental heritage**

The land does not contain an item of environmental heritage.

## **2.2 Draft Local Environmental Plan - if any**

For any proposed changes to zoning and land use, see Part 1.2 b)  
Please contact Council's Strategic and Place Planning unit with enquiries on 1300 434 434.

## **2A. Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006**

The *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* does not apply to the land.

## **3. Complying Development**

The extent to which the land is land on which complying development may or may not be carried out under each of the codes for complying development because of the provisions of clauses 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*.

### **a) Housing Code**

Complying Development under the Housing Code may be carried out on all of the land.

**b) Rural Housing Code**

Complying Development under the Rural Housing Code may be carried out on all of the land.

**c) Low Rise Housing Diversity Code**

Complying Development under the Low Rise Housing Diversity Code may be carried out on all of the land.

**d) Greenfield Housing Code**

Complying Development under the Greenfield Housing Code may not be carried out on all of the land.

**e) Housing Alterations Code**

Complying Development under the Housing Alterations Code may be carried out on all of the land.

**f) General Development Code**

Complying Development under the General Development Code may be carried out on all of the land.

**g) Commercial and Industrial Alterations Code**

Complying Development under the Commercial and Industrial Alterations Code may be carried out on all of the land.

**h) Commercial and Industrial (New Buildings and Additions) Code**

Complying Development under the Commercial and Industrial (New Buildings and Additions) Code may be carried out on all of the land.

**i) Container Recycling Facilities Code**

Complying Development under the Container Recycling Facilities Code may be carried out on all of the land.

**j) Subdivisions Code**

Complying Development under the Subdivisions Code may be carried out on all of the land.

**k) Demolition Code**

Complying Development under the Demolition Code may be carried out on all of the land.

**l) Fire Safety Code**

Complying Development under the Fire Safety Code may be carried out on all of the land.

**m) Inland Code**

Complying Development under the Inland Code does not apply to the land.

**Note:** Pursuant to clause 3D.1 of the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*, the Inland Code only applies to 'inland local government areas'. Northern Beaches local government area is not defined as an 'inland local government area' by *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.



## **4, 4A (Repealed)**

### **4B. Annual charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works**

The owner of the land (or any previous owner) has not consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

## **5. Mine Subsidence**

The land has not been proclaimed to be a mine Subsidence (Mine Subsidence) district within the meaning of section 15 of the *Mine Subsidence (Mine Subsidence) Compensation Act, 1961*.

## **6. Road widening and road realignment**

- (a) The land is not affected by a road widening or re-alignment proposal under Division 2 of Part 3 of the *Roads Act 1993*.
- (b) The land is not affected by a road widening or re-alignment proposal under an environmental planning instrument.
- (c) The land is not affected by a road widening or re-alignment proposal under a resolution of Council.

## **7. Council and other public authority policies on hazard risk restriction**

- (a) Council has adopted a number of policies with regard to various hazards or risks which may restrict development on this land. The identified hazard or risk and the respective Council policies which affect the property, if any, are listed below (other than flooding – see 7A):

Nil

- (b) The following information applies to any policy as adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in a planning certificate issued by the Council. The identified hazard or risk and the respective Policy which affect the property, if any, are listed below:

Nil

## **7A. Flood related development control Information**

- (1) The land is not within the flood planning area and subject to flood related development controls.
- (2) 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.
- (3) In this clause—

**flood planning area** has the same meaning as in the Floodplain Development Manual.

**Floodplain Development Manual** means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

**probable maximum flood** has the same meaning as in the Floodplain Development Manual.

## **8. Land reserved for acquisition**

Environmental planning instrument referred to in Clause 1 does not make provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

## **9. Contribution plans**

The following applies to the land:

**Northern Beaches Section 7.12 Contributions Plan 2019**

### **9A. Biodiversity certified land**

The land is not biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016* (includes land certified under Part 7AA of the repealed *Threatened Species Conservation Act 1995*).

## **10. Biodiversity Stewardship Sites**

The Council has not been notified by the Chief Executive of the Office of Environment and Heritage that the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016* (includes land to which a biobanking agreement under Part 7A of the repealed *Threatened Species Conservation Act 1995* relates).

### **10A. Native vegetation clearing set asides**

Council has not been notified by Local Land Services of the existence of a set aside area under section 60ZC of the *Local Land Services Act 2013*.

## **11. Bush fire prone land**

**Bush Fire Prone Land**

The land is not bush fire prone land.

## **12. Property vegetation plans**

The Council has not been notified that the land is land to which a vegetation plan under the *Native Vegetation Act 2003* applies.

## **13. Orders under Trees (Disputes Between Neighbours) Act 2006**

Council has not been notified of the existence of an order made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

## **14. Directions under Part 3A**

There is not a direction by the Minister in force under section 75P(2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect.

## **15. Site compatibility certificates and conditions for seniors housing**

- (a) There is not a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land.
- (b) No condition of consent applies to the property that limits the kind of people who may occupy the premises/ development. This refers only to consents granted after 11 October 2007 with conditions made in accordance with clause 18(2) of *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004*.

## **16. Site compatibility certificates for infrastructure, schools or TAFE establishments**

There is not a valid site compatibility certificate (infrastructure) or site compatibility certificate (schools or TAFE establishments), of which the council is aware, in respect of proposed development on the land.

## **17. Site compatibility certificate and conditions for affordable rental housing**

- (a) There is not a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land.
- (b) There are not terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

## **18. Paper subdivision information**

There is no current paper subdivision, of which council is aware, in respect of this land according to Part 16C of the *Environmental Planning and Assessment Regulation 2000*.

## **19. Site verification certificates**

There is no current site verification certificate, of which council is aware, in respect of the land according to Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007*.

## **20. Loose-fill asbestos insulation**

The residential dwelling erected on this land has not been identified in the Loose-Fill Asbestos Insulation Register as containing loose-fill asbestos ceiling insulation.

This clause applies to residential premises (within the meaning of Division 1A of part 8 of the Home Building Act 1989) that are listed in the register that is required to be maintained under that Division.

Contact NSW Fair Trading for more information.

## **21 Affected building notices and building product rectification orders**

- 1) There is not an affected building notice of which the council is aware that is in force in respect of the land.
- 2) There is not a building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with, and
- 3) There is not a notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

In this clause:

***affected building notice*** has the same meaning as in Part 4 of the *Building Products (Safety) Act 2017*.

***building product rectification order*** has the same meaning as in the *Building Products (Safety) Act 2017*.

## **Additional matters under the 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) the land to which the certificate relates is not significantly contaminated land within the meaning of that Act
- (b) the land to which the certificate relates is not subject to a management order within the meaning of that Act
- (c) the land to which the certificate relates is not the subject of an approved voluntary management proposal within the meaning of that Act
- (d) the land to which the certificate relates is not subject to an ongoing maintenance order within the meaning of that Act
- (e) the land to which the certificate relates is not the subject of a site audit statement

If contamination is identified above please contact the Environmental Protection Authority (EPA) for further information.

## **Planning Certificate – Part 5**

ePLC2022/00127

The following is information provided in good faith under the provisions of Section 10.7(5) of the *Environmental Planning and Assessment Act 1979* (as amended – formerly Section 149) and lists relevant matters affecting the land of which Council is aware. The Council shall not incur any liability in respect of any such advice.

Persons relying on this certificate should read the environmental planning instruments referred to in this certificate.

## **Company Title Subdivision**

Clause 4.1 of the *Pittwater Local Environmental Plan 2014*, *Warringah Local Environmental Plan 2011* or *Manly Local Environmental Plan 2013* provides that land may not be subdivided except with the consent of the Council. This includes subdivision by way of company title schemes. Persons considering purchasing property in the Northern Beaches local government area the subject of a company title scheme are advised to check that the land has been subdivided with the consent of the Council.

## **District Planning**

Under the Greater Sydney Regional Plan – A Metropolis of Three Cities 2018, the Greater Sydney Commission sets a planning framework for a metropolis of three cities across Greater Sydney which reach across five Districts. Northern Beaches is located within the ‘Eastern Harbour City’ area and is in the North District which forms a large part of the Eastern Harbour City. The North District Plan sets out planning priorities and actions for the growth of the North District, including Northern Beaches. Northern Beaches Council’s Local Strategic Planning Statement gives effect to the District Plan based on local characteristics and opportunities and Council’s own priorities in the community. The Local Strategic Planning Statement came into effect on 26 March 2020.

## **Council Resolution To Amend Environmental Planning Instrument**

The following instrument or resolution of Council proposes to vary the provisions of an environmental planning instrument, other than as referred to in the Planning Certificate – Part 2:

### **Planning Proposal - rezone deferred land within the Oxford Falls Valley & Belrose North area**

**Applies to land:** Land within the B2 Oxford Falls Valley and C8 Belrose North localities of WLEP 2000 and land zoned E4 Environmental Living under WLEP 2011 at Cottage Point (Boundaries identified within the Planning Proposal)

**Outline:** Amends WLEP 2000 and WLEP 2011 to:

- Transfer the planning controls for land within the B2 Oxford Falls Valley and C8 Belrose North localities of WLEP 2000 into the best fit zones and land use controls under WLEP 2011
- Rezone the majority of the subject land to E3 Environmental Management under WLEP 2011
- Rezone smaller parcels of land to E4 Environmental Living, RU4 Primary Production Small Lots, SP2 Infrastructure, SP1 Special Activities, R5 Large Lot Residential and R2 Low Density Residential under WLEP 2011
- Include various parcels of land as having additional permitted uses under Schedule 1 of WLEP 2011

**Council resolution:** 24 February 2015

## **Additional Information Applying To The Land**

Additional information, if any, relating to the land the subject of this certificate:



Nil

## **General Information**

### **Threatened Species**

Many threatened species identified under the *Biodiversity Conservation Act 2016* (NSW) and Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth) are found within the former Local Government Area of Warringah (now part of Northern Beaches). Council's Natural Environment unit can be contacted to determine whether any site specific information is available for this property. Records of threatened flora and fauna are also available from the NSW Office of Environment and Heritage's Atlas of NSW Wildlife database: <http://www.bionet.nsw.gov.au>

Potential threatened species could include:

(a) threatened species as described in the final determination of the scientific committee to list endangered and vulnerable species under Schedule 1 of the *Biodiversity Conservation Act 2016*, and/or

(b) one or more of the following threatened ecological communities as described in the final determination of the scientific committee to list the ecological communities under Schedule 2 of the *Biodiversity Conservation Act 2016*:

- Duffys Forest Ecological Community in the Sydney Basin Bioregion
- Swamp Sclerophyll Forest on Coastal Floodplain
- Coastal Saltmarsh of the Sydney Basin Bioregion
- Swamp Oak Floodplain Forest
- Bangalay Sand Forest of the Sydney Basin Bioregion
- Themeda grasslands on Seacliffs and Coastal Headlands
- Sydney Freshwater Wetlands in the Sydney Basin Bioregion
- Coastal Upland Swamp in the Sydney Basin Bioregion
- River-Flat Eucalypt Forest on Coastal Floodplains of the New South Wales North Coast, Sydney Basin and South East Corner Bioregions

### **Bush fire**

Certain development may require further consideration under section 79BA or section 91 of the Environmental Planning and Assessment Act 1979, and section 100B of the Rural Fires Act, 1997 with respect to bush fire matters. Contact NSW Rural Fire Service.

### **Aboriginal Heritage**

Many Aboriginal objects are found within the Local Government Area. It is prudent for the purchaser of land to make an enquiry with the Office of Environment and Heritage as to whether any known Aboriginal objects are located on the subject land or whether the land has been declared as an Aboriginal place under the *National Parks and Wildlife Act 1974* (NSW). The carrying out of works may be prevented on land which is likely to significantly affect an Aboriginal object or Aboriginal place. For information relating to Aboriginal sites and objects across NSW, contact: Aboriginal Heritage Information Management System (AHIMS) on (02) 9585 6345 or email [AHIMS@environment.nsw.gov.au](mailto:AHIMS@environment.nsw.gov.au). Alternatively visit <http://www.environment.nsw.gov.au/licences/AboriginalHeritageInformationManagementSystem.htm>.

### **Coastal Erosion**

Information available to Council indicates coastal erosion may affect a greater number of properties and may present an increased risk to properties than that shown on published hazard maps of the Warringah coastline. Council's Natural Environment Unit can be contacted for further

information.

A handwritten signature in black ink, appearing to read 'Ray Brownlee', with a long horizontal stroke extending to the right.

**Ray Brownlee PSM**  
**Chief Executive Officer**  
**13/01/2022**



## **Council Records**

## Craig Ridley

---

**From:** Carol Freshwater <Carol.Freshwater@northernbeaches.nsw.gov.au>  
**Sent:** Thursday, 27 January 2022 11:39 AM  
**To:** Craig Ridley  
**Subject:** 101 Old Pittwater Road  
**Attachments:** 101 old pittwater.pdf

Craig

The property was originally known as 101-105 Old Pittwater. There has been a factory on the site since 1958 too early for council to have the original consent.

Factory registrations attached

Carol

Carol Freshwater  
Information Access Officer

Information Management  
t 02 8495 6166  
carol.freshwater@northernbeaches.nsw.gov.au  
northernbeaches.nsw.gov.au

Northern Beaches Council

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL. This email and any materials contained or attached to it ("Contents") may contain confidential information. If you are not the intended recipient contact the sender immediately, delete the communication from your system and destroy any copies. The contents may also be subject to copyright. Any unauthorised copying, disclosure or distribution of the contents is strictly prohibited. Northern Beaches Council makes no implied or express warranty that the integrity of this communication has been maintained. The contents may contain errors, computer viruses or have been subject to interference in transmission. Northern Beaches Council. Northern Beaches Council <<http://www.Northernbeaches.nsw.gov.au>>



# THE COUNCIL OF THE SHIRE OF WARRINGAH

All correspondence to be addressed to The General Manager  
Civic Centre Pittwater Road Dee Why 2099 DX 9118 Dee Why  
Telephone (02) 982 0333 Fax (02) 982 4770

File No PF 3627/105 SC RVG/1527t  
Your Ref

27th November 1986

The Manager  
Efficiency Manufacturing Pty Ltd  
103-105 Old Pittwater Road  
BROOKVALE NSW 2100

Dear Sir


re Application to Register Factory at 103-105 Old Pittwater Road,  
Brookvale for the Purpose of Light Repetition Steel Work

This Council has received a letter dated 3rd November 1986 from the Under Secretary Department of Industrial Relations advising that you have applied to that Department to register a factory at the above site for the purpose described in the heading of this letter

You are advised that this land is subject to the provisions of WLEP 1985 General Industrial 4(a) The effect of this environmental planning instrument on your proposal is that it is permissible without Council's planning consent The Department of Industrial Relations has therefore been advised that the Council has no objection to the registration of your factory for the purpose for which you have applied

It is hoped this information is of assistance to you and satisfactorily clarifies the matter

Yours faithfully

  
L A Castle  
DIVISIONAL MANAGER  
ENVIRONMENTAL SERVICES

Enquiries  
Mrs S Clement Town Planning Department





# THE COUNCIL OF THE SHIRE OF WARRINGAH

All correspondence to be addressed to The General Manager  
Civic Centre Pittwater Road Dee Why 2099 DX 9118 Dee Why  
Telephone (02) 982 0333 Fax (02) 982 4770

File No PF 3627/105 SC RVG/1527t  
Your Ref

27th November 1986

The Under Secretary  
Department of Industrial Relations  
PO Box 847  
DARLINGHURST NSW 2010

APPLICATION TO REGISTER FACTORY  
Your Reference 32/188006/6

APPLICANT Efficiency Manufacturing Pty Ltd

SUBJECT LAND 103-105 Old Pittwater Road Brookvale

ENVIRONMENTAL PLANNING INSTRUMENT WLEP 1985

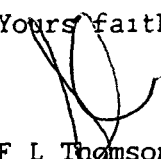
ZONE General Industrial 4(a)

Dear Sir,

On the information supplied in your letter dated 3rd November 1986 in respect of the subject land you are advised that the development is permissible without Council's planning consent and does not require any works to upgrade the building in accordance with the requirements of Ordinance 70 and the application to register the factory can proceed

Your Department is thanked for its customary consultation in this matter

Yours faithfully

  
F L Thomson  
GENERAL MANAGER/  
SHIRE CLERK

Enquiries  
Mrs S Clement Town Planning Department



## Department of Industrial Relations

The Shire Clerk  
Warringah Shire Council  
DX 9118  
WARRINGAH 2100

19007

COUNCIL

10 NOV 1986

REF TO TP

FILE WITH ✓

FILE No PF 3627/105

1 Oxford Street  
Darlinghurst  
Box 847 P.O. Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/ 188006/6

Your reference

Telephone 266 8708

Dear Sir

APPLICATION TO REGISTER FACTORY

3rd November 1986

OCCUPIER'S NAME Efficiency Mfg Pty Ltd

ADDRESS OF PREMISES 103-105 Old Pittwater Rd Brookvale

NATURE OF WORK Light Repetition Steel Work

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

Would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (i) the full name and address of the applicant,
- (ii) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (iii) the relevant section or ordinance under the Local Government Act, if objection is raised to the application, and
- (iv) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

S. 12/11/86

FOR THE SECRETARY

*Express satisfactory*  
*No HOB objections*  
*17/11/86*

*PKC*  
*Class 1116*



# Department of Industrial Relations

19007

1 Oxford Street  
Darlinghurst

The Shire Clerk  
Warringah Shire Council  
DX 9118  
WARRINGAH 2100

WARRINGAH SHIRE COUNCIL CENTRAL RECORDS 10 NOV 1986 REF TO TP FILE WITH ✓ FILE No PF 3627/105
--

Box 847 P O Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/ 188006/6

Your reference

Telephone 266 8708

Dear Sir

APPLICATION TO REGISTER FACTORY

3rd November 1986

OCCUPIER'S NAME

Efficiency Mfg Pty Ltd

ADDRESS OF PREMISES

103-105 Old Pittwater Rd, Brookvale

NATURE OF WORK

Light Repetition Steel Work

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

Would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (i) the full name and address of the applicant,
- (ii) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (iii) the relevant section or ordinance under the Local Government Act, if objection is raised to the application, and
- (iv) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

S. H. H. H.

FOR THE SECRETARY

# WARRINGAH SHIRE COUNCIL



CIVIC CENTRE PITTWATER ROAD DEE WHY 2099  
DX 9118

TELEPHONE 982 0333

All correspondence to be addressed to The General Manager  
I reply please quote

SC DL 2921s  
PF 3627/105

9th May 1985

The Under Secretary  
Department of Industrial Relations  
PO Box 847  
DARLINGHURST NSW 2010

APPLICATION TO REGISTER FACTORY  
Your Reference 32/181184 1-1 sa

APPLICANT Capricorn Design Pty Ltd

SUBJECT LAND Units 2~~b~~/2c No 105 Old Pittwater Road Brookvale

ENVIRONMENTAL PLANNING INSTRUMENT Warringah Shire Planning Scheme

ZONE General Industrial 4(a)

Dear Sir

On the information supplied in your letter dated 1st April 1985 in respect of the subject land you are advised that as the development commenced prior to the gazettal of Local Environmental Plan No 11 on 13th August 1982 such development is permissible without Council's planning consent and does not require any works to upgrade the building in accordance with the requirements of Ordinance 70 and the application to register the factory can proceed

Your Department is thanked for its customary consultation in this matter

Yours faithfully

L A Castle  
DIVISIONAL MANAGER -  
ENVIRONMENTAL SERVICES

Enquiries  
Mrs S Clement Town Planning Department

# WARRINGAH SHIRE COUNCIL



CIVIC CENTRE PITTWATER ROAD DEE WHY 2099  
DX 9118

TELEPHONE 982 0333

All correspondence to be addressed to The General Manager  
In reply please quote

SC DL 2921s  
PF 3627/105

9th May 1985

Capricorn Design Pty Ltd  
Units 26/2c  
105 Old Pittwater Road  
BROOKVALE NSW 2100

Dear Sir/Madam


re Application to Register Factory at Units 26/2c No 105 Old  
Pittwater Road Brookvale for the Purpose of manufacture of  
metal products

This Council has received a letter dated 1st April 1984 from the Under Secretary Department of Industrial Relations advising that you have applied to that Department to register a factory at the above site for the purpose described in the heading of this letter

You are advised that this land is subject to the provisions of Warringah Shire Planning Scheme General Industrial 4(a) The effect of this environmental planning instrument on your proposal is that it is permissible without Council's planning consent However as your use commenced prior to the gazettal of Local Environmental Plan No 11 on 13th August 1982 such consent is not required The Department of Industrial Relations has therefore been advised that the Council has no objection to the registration of your factory for the purpose for which you have applied

It is hoped this information is of assistance to you and satisfactorily clarifies the matter

Yours faithfully

  
L A Castle  
DIVISIONAL MANAGER -  
ENVIRONMENTAL SERVICES

Enquiries  
Mrs S Clement Town Planning Department





# Department of Industrial Relations



1 Oxford Street  
Darlinghurst

Box 847 P.O. Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/ 181184 1 rl,sa

Your reference

Telephone

266 8708

1 APRIL 1985

THE SHIRE CLERK  
WARRINGAH SHIRE COUNCIL  
CIVIC CENTRE, PITTWATER RD  
DEE WHY 2099 26

4 APR 1985

TPBU 4 4 85

PF3627/105

Dear Sir

APPLICATION TO REGISTER FACTORY

OCCUPIER'S NAME CAPRICORN DESIGN PTY LTD  
ADDRESS OF PREMISES units 2b/2c 105 OLD PITTWATER RD, BROOKVALE  
NATURE OF WORK mfg metal products Ph -

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

Would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (1) the full name and address of the applicant,
- (11) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (111) the relevant section or ordinance under the Local Government Act, if objection is raised to the application, and
- (1v) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

Manager  
for J M RIORDAN  
SECRETARY

8 years at premises  
addresses J. O'Connell  
2/5/85

Express satisfactory  
No Objections

W.P.  
2/5/85

28/10/85

PF2

ben 28/6



## Department of Industrial Relations



THE SHIRE CLERK  
4 APR 1985 WARRINGAH SHIRE COUNCIL  
TO TD CIVIC CENTRE, PITTWATER RD  
DEE WHY 2099 26  
FILE WITH TPD 4485  
FILE No PF3627/105

1 Oxford Street  
Darlinghurst

Box 847 P O Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/ 181184 1 rl,sa

Your reference

Telephone

266 8708

1 APRIL 1985

Dear Sir

APPLICATION TO REGISTER FACTORY

OCCUPIER'S NAME CAPRICORN DESIGN PTY LTD  
ADDRESS OF PREMISES units 2b/2c 105 OLD PITTWATER RD, BROOKVALE  
NATURE OF WORK mfg metal products Ph -

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

Would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (1) the full name and address of the applicant,
- (11) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (111) the relevant section or ordinance under the Local Government Act, if objection is raised to the application, and
- (1v) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

for J M RIORDAN  
SECRETARY

# WARRINGAH SHIRE COUNCIL



CIVIC CENTRE PITTWATER ROAD DEE WHY 2099  
DX 9118



TELEPHONE 982 0333

All correspondence to be addressed to The General Manager  
In reply please quote

SC/AE 2419s  
PF 3627/101

10th April 1985

The Under Secretary,  
Department of Industrial Relations  
PO Box 847  
DARLINGHURST NSW 2010

APPLICATION TO REGISTER FACTORY  
Your Reference 32/180899 7r1 sa

APPLICANT Efficiency Display Marketing Pty Ltd

SUBJECT LAND No 4/101 Old Pittwater Road Brookvale

ENVIRONMENTAL PLANNING INSTRUMENT Warringah Shire Planning Scheme

ZONE General Industrial 4(a)

Dear Sir,

On the information supplied in your letter dated 14th March, 1985 in respect of the subject land, you are advised that as the development commenced prior to the gazettal of Local Environmental Plan No 11 on 13th August 1982, such development is permissible without Council's planning consent and does not require any works to upgrade the building in accordance with the requirements of Ordinance 70, and the application to register the factory can proceed

Your Department is thanked for its customary consultation in this matter

Yours faithfully

L A Castle  
DIVISIONAL MANAGER -  
ENVIRONMENTAL SERVICES

Enquiries  
Mrs S Clement, Town Planning Department

# WARRINGAH SHIRE COUNCIL



CIVIC CENTRE PITTWATER ROAD, DEE WHY 2099  
DX 9118

TELEPHONE 982 0333

All correspondence to be addressed to The General Manager  
In reply please quote

SC/AE 2419s  
PF 3627/101

10th April 1985

The Manager  
Efficiency Displays Marketing  
4/101 Old Pittwater Road  
BROOKVALE NSW 2100

Dear Sir

re Application to Register Factory at No 4/101 Old Pittwater Road,  
Brookvale for the Purpose of manufacture of display equipment

This Council has received a letter dated 14th March 1985, from the Under Secretary, Department of Industrial Relations, advising that you have applied to that Department to register a factory at the above site for the purpose described in the heading of this letter

You are advised that this land is subject to the provisions of the Warringah Shire Planning Scheme, General Industrial 4(a) The effect of this environmental planning instrument on your proposal is that it is permissible without Council's planning consent. However, as your use commenced prior to the gazettal of Local Environmental Plan No 11 on 13th August 1982, such consent is not required. The Department of Industrial Relations has therefore been advised that the Council has no objection to the registration of your factory for the purpose for which you have applied.

It is hoped this information is of assistance to you and satisfactorily clarifies the matter.

Yours faithfully

L A Castle  
DIVISIONAL MANAGER -  
ENVIRONMENTAL SERVICES

Enquiries  
Mrs S Clement, Town Planning Department

## Department of Industrial Relations



THE SHIRE CLERK  
WARRINGAH SHIRE COUNCIL  
CIVIC CENTRE, PITTWATER ROAD  
DEE WHY

2099 2619 VAR 1535

REF TO

FILE WITH

FILE No PF 3627/3675/101

1 Oxford Street  
Darlinghurst

Box 847 P O Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/ 180899 7 rl,sa

Your reference

Telephone 266 8708

14 MARCH 1985

Dear Sir

APPLICATION TO REGISTER FACTORY

OCCUPIER'S NAME

EFFICIENCY DISPLAYS MARKETING PTY LTD

ADDRESS OF PREMISES

4 105 OLD PITTWATER ROAD, WARRINGAH

mfg display equipment

Ph -

NATURE OF WORK

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

Would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (1) the full name and address of the applicant,
- (11) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (111) the relevant section or ordinance under the Local Government Act, if objection is raised to the application, and
- (iv) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

for J M RIORDAN  
SECRETARY

*Been operating as industry since 1976*  
*Express satisfactory to H.B. obligations*  
*26/3/85*

*PF2*  
*Class VIII B*





# Department of Industrial Relations



THE SHIRE CLERK  
WARRINGAH SHIRE COUNCIL  
CIVIC CENTRE, PITTWATER ROAD  
DEE WHY 2099 2619 VAR 1505

REF TO TP  
FILE WITH  
FILE No PF 3627/101

1 Oxford Street  
Darlinghurst  
Box 847 P O Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/ 180899 7 rl,sa

Your reference

Telephone 266 8708

14 MARCH 1985

Dear Sir

APPLICATION TO REGISTER FACTORY

OCCUPIER'S NAME EFFICIENCY DISPLAYS MARKETING PTY LTD

ADDRESS OF PREMISES 4 101 OLD PITTWATER ROAD, WARRINGAH

mfg display equipment Ph -

NATURE OF WORK

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

Would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (1) the full name and address of the applicant,
- (11) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (111) the relevant section or ordinance under the Local Government Act, if objection is raised to the application, and
- (1v) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

for J M RIORDAN  
SECRETARY

# WARRINGAH SHIRE COUNCIL



CIVIC CENTRE PITTWATER ROAD DEE WHY 2099  
DX 9118

TELEPHONE 982 0333

All correspondence to be addressed to The General Manager  
In reply please quote

SC LP 1834s  
PF 3627/105

26th February 1985

The Manager  
Gemini Fabrications Pty Ltd  
1B/105 Old Pittwater Road  
BROOKVALE NSW 2100

Dear Sir

re Application to Register Factory at 1B/105 Pittwater Road,  
Brookvale for the Purpose of Spray Painting

This Council has received a letter dated 22nd January 1985 from the Under Secretary Department of Industrial Relations advising that you have applied to that Department to register a factory at the above site for the purpose described in the heading of this letter

You are advised that this land is subject to the provisions of Warringah Shire Planning Scheme General Industrial 4(a) The effect of this environmental planning instrument on your proposal is that it is one to which Council can grant planning consent However no development application has been lodged with Council for this purpose nor has Council been notified of the use under the provisions of State Environmental Planning Policy No 4 ( Development Without Consent' ), in lieu of the submission of a development application Until such an application has been lodged and consent granted or notification under State Environmental Planning Policy No 4 received and accepted, the land may not lawfully be used for this purpose Therefore Council has advised the Department of Industrial Relations that it objects to factory registration at this stage

If you wish to proceed with your proposal you should either lodge a development application with Council or notify Council under the provisions of State Environmental Planning Policy No 4 Both development application forms and notification forms are attached to this letter Should Council issue planning consent to your development application, or accept your notification under State Environmental Planning Policy No 4 you should again approach the Department of Industrial Relations about registration

It is hoped this information is of assistance to you and satisfactorily clarifies the matter

Yours faithfully

P T Hynes  
GENERAL MANAGER/  
SHIRE CLERK

Enquiries  
Mrs S Clement, Town Planning Department

# WARRINGAH SHIRE COUNCIL

CIVIC CENTRE PITTWATER ROAD DEE WHY 2099  
DX 9118



TELEPHONE 982 0333

All correspondence to be addressed to The General Manager  
In reply please quote

SC LP 1834s  
PF 3627/105

26th February 1985

The Under Secretary  
Department of Industrial Relations  
PO Box 847  
DARLINGHURST NSW 2010

APPLICATION TO REGISTER FACTORY  
Your Reference 32/180236 5 rl,sa

APPLICANT Gemini Fabrications Pty Ltd

SUBJECT LAND 1B/105 Old Pittwater Road Brookvale

ENVIRONMENTAL PLANNING INSTRUMENT Warringah Shire Planning Scheme

ZONE General Industrial 4(a)

Dear Sir

On the information supplied in your letter dated 22nd January 1985 in respect of the subject land you are advised that such development is permissible with consent. The necessary consent has not been granted, nor has Council been notified under the provisions of State Environmental Planning Policy No 4 (Development Without Consent') and therefore the registration of the factory cannot proceed. Council has also written to the applicant informing him of his position regarding Council's requirements.

Your Department is thanked for its customary consultation in this matter.

Yours faithfully

P T Hynes  
GENERAL MANAGER/  
SHIRE CLERK

Enquiries  
Mrs S Clement, Town Planning Department



# Department of Industrial Relations



1 Oxford Street  
Darlinghurst

Box 847 P O Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/180236 5 rl,sa

Your reference

Telephone 266 8708

22 JANUARY 1985

THE SHIRE CLERK

WARRINGAH SHIRE

CIVIC CENTRE, PITTWATER ROAD

DEE WHY

WARRINGAH SHIRE COUNCIL  
LOCAL GOVERNMENT RECORDS -  
2099 26  
25 JAN 1985  
REF TO 179  
FILE V -  
F PF 3621/105

Dear Sir,

APPLICATION TO REGISTER FACTORY

OCCUPIER'S NAME GEMINI FABRICATIONS PTY LTD

ADDRESS OF PREMISES 1B/105 OLD PITTWATER ROAD, BROOKVALE

NATURE OF WORK spray painting Ph 938 3547

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (i) the full name and address of the applicant,
- (ii) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (iii) the relevant section or ordinance under the Local Government Act, if objection is raised to the applicant, and
- (iv) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

for J. M. JORDAN  
Secretary

*Eggers on the factory  
No H. B. objections*

*DS 13/2/85*



# Department of Industrial Relations



1 Oxford Street  
Darlinghurst

Box 847 P O Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/180236 5 rl,sa

Your reference

Telephone 266 8708

22 JANUARY 1985

THE SHIRE CLERK  
WARRINGAH SHIRE COUNCIL  
CIVIC CENTRE, PITTWATER  
DEE WHY

2099 26  
25 JAN 1985  
REF TO T9  
FILE V -  
FILE - PF 3621/105

Dear Sir,

APPLICATION TO REGISTER FACTORY

OCCUPIER'S NAME GEMINI FABRICATIONS PTY LTD

ADDRESS OF PREMISES 1B/105 OLD PITTWATER ROAD, BROOKVALE

NATURE OF WORK spray painting Ph 938 3547

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (i) the full name and address of the applicant,
- (ii) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (iii) the relevant section or ordinance under the Local Government Act, if objection is raised to the applicant, and
- (iv) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

for J. M. IO DAN  
~~Secretary~~ Secretary



# WARRINGAH SHIRE COUNCIL



CIVIC CENTRE PITTWATER ROAD DEE WHY 2099  
DX 9118

TELEPHONE 982 0333

All correspondence to be addressed to The General Manager  
In reply please quote

SC BD 1076s  
File PF 3627/105

20th December 1984

The Under Secretary  
Department of Industrial Relations  
PO Box 847  
DARLINGHURST NSW 2010

APPLICATION TO REGISTER FACTORY  
Your Reference 32/179876 4 rl sa

APPLICANT M & V R Risbridger

SUBJECT LAND Unit 5/105 Old Pittwater Road Brookvale

ENVIRONMENTAL PLANNING INSTRUMENT Warringah Shire Planning Scheme

ZONE General Industrial 4(a)

Dear Sir

On the information supplied in your letter dated 10th December 1984 in respect of the subject land you are advised that as the development commenced prior to the gazettal of Local Environmental Plan No 11 on 13th August 1982 such development is permissible without Council's planning consent and does not require any works to upgrade the building in accordance with the requirements of Ordinance 70 and the application to register the factory can proceed

Your Department is thanked for its customary consultation in this matter

Yours faithfully

P T Hynes  
GENERAL MANAGER

Enquiries  
Mrs S Clement Town Planning Department

# WARRINGAH SHIRE COUNCIL

CIVIC CENTRE PITTWATER ROAD DEE WHY 2099  
DX 9118



TELEPHONE 982 0333

All correspondence to be addressed to The General Manager  
In reply please quote

SC BD 1076s  
File PF 3627/105

20th December 1984

M & V R Risbridger  
5/105 Old Pittwater Road  
BROOKVALE NSW 2100

Dear Messrs Risbridger

re Application to Register Factory at 5/105 Old Pittwater Road,  
Brookvale for the Purpose of manufacture display stands

This Council has received a letter dated 10th December 1984 from the Under Secretary Department of Industrial Relations advising that you have applied to that Department to register a factory at the above site for the purpose described in the heading of this letter

You are advised that this land is subject to the provisions of Warringah Shire Planning Scheme General Industrial 4(a) The effect of this environmental planning instrument on your proposal is that it is permissible without Council's planning consent However as your use commenced prior to the gazettal of Local Environmental Plan No 11 on 13th August 1982 such consent is not required The Department of Industrial Relations has therefore been advised that the Council has no objection to the registration of your factory for the purpose for which you have applied

It is hoped this information is of assistance to you and satisfactorily clarifies the matter

Yours faithfully

P T Hynes  
GENERAL MANAGER

Enquiries  
Mrs S Clement Town Planning Department

## Department of Industrial Relations



THE SHIRE CLERK  
WARRINGAH SHIRE COUNCIL  
CIVIC CENTRE, PITTWATER  
DLLE WHY 2099 26

1 Oxford Street  
Darlinghurst

Box 847 P O Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/ 179876 4 1

Your reference

Telephone 266 8708

10 DECEMBER 1984

12 DEC 1984  
10 TP  
FILE WITH  
FILE No PF 3627/105

Dear Sir,

APPLICATION TO REGISTER FACTORY

OCCUPIER'S NAME M & V R RISBRIDGER

ADDRESS OF PREMISES Unit 5, 105 OLD PITTWATER RD, DEE WHY

NATURE OF WORK display stands Ph 4522965 home

This department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (i) the full name and address of the applicant,
- (ii) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (iii) the relevant section or ordinance under the Local Government Act, if objection is raised to the applicant, and
- (iv) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

for J M IO DAN  
Under Secretary

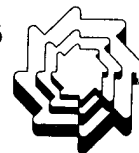
*Opening  
since  
76*

*19/12/84*

*Express satisfactory  
No objection  
14/12/84*



# Department of Industrial Relations



THE SHIRE CLERK  
WARRINGAH SHIRE COUNCIL  
CIVIC CENTRE, FITT WATER RD, DEE WHY  
2099 26

1 Oxford Street  
Darlinghurst

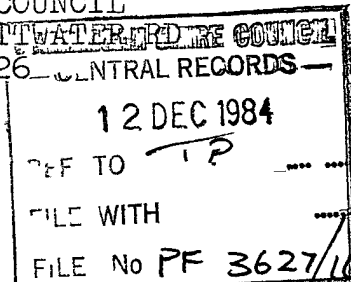
Box 847 P O Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/ 179876 4 rl,sa

Your reference

Telephone 266 8708

10 DECEMBER 1984



Dear Sir,

APPLICATION TO REGISTER FACTORY

OCCUPIER'S NAME M & V K RISBRIDGER

ADDRESS OF PREMISES Unit 5, 105 OLD FITT WATER RD, DEE WHY

NATURE OF WORK display stands Ph 4522965 home

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the above-mentioned premises

would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (i) the full name and address of the applicant,
- (ii) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (iii) the relevant section or ordinance under the Local Government Act, if objection is raised to the applicant, and
- (iv) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

for J. I. O. DAN  
Under Secretary

SC/GB  
FILE PF 3627/105

19th April 1982

The Under Secretary  
Department of Industrial Relations  
PO Box 847  
DARLINGHURST NSW 2010

APPLICATION TO REGISTER FACTORY  
Your Reference 32/168301/0 RL LM

APPLICANT Capricorn Designs Pty Ltd

SUBJECT LAND Unit 4, 105 Old Pittwater Road, Brookvale

ENVIRONMENTAL PLANNING INSTRUMENT Warringah Shire Planning  
Scheme

ZONE General Industrial 4(a)

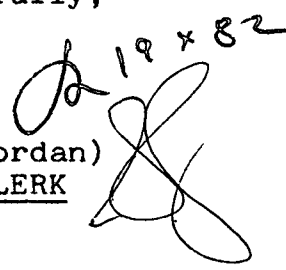
Dear Sir,

On the information supplied in your letter dated 26th March 1982, in respect of the subject land, you are advised that such development is permissible without Council's planning consent and does not require any works to upgrade the building in accordance with the requirements of Ordinance 70, and the application to register the factory can proceed

Your Department is thanked for its customary consultation in this matter

Yours faithfully,

(L G Riordan)  
SHIRE CLERK

219 x 82  


Mrs S Clement, Town Planning  
Department, (8 30 - 10 30 am, Monday  
To Friday)



SC/GB  
FILE PF 3627/105

19th April 1982

The Manager  
Capricorn Designs Pty Ltd  
Unit 4, No 105 Old Pittwater Road  
BROOKVALE NSW 2100

Dear Sir,

re Application to Register Factory at Unit 4, 105 Old  
Pittwater Road, Brookvale, for the Purpose of  
Engineering

This Council has received a letter dated 26th March 1982,  
from the Under Secretary, Department of Industrial Relations,  
advising that you have applied to that Department to register  
a factory at the above site for the purpose described in  
the heading of this letter

You are advised that this land is subject to the provisions  
of the Warringah Shire Planning Scheme, General Industrial  
4(a) zone. The effect of this environmental planning instrument  
on your proposal is that it is permissible without Council's  
planning consent. The Department of Industrial Relations  
has therefore been advised that the Council has no objection  
to the registration of your factory for the purpose for  
which you have applied.

It is hoped this information is of assistance to you and  
satisfactorily clarifies the matter.

Yours faithfully,

(L G Riordan)  
SHIRE CLERK

19.4.82

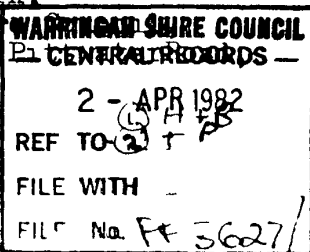
Mrs S Clement, Town Planning Dept ,  
8 30-10 30a m Monday to Friday



# Department of Industrial Relations



The Shire Clerk,  
Warrinah Shire  
Civic Centre,  
DEE WHY 2099



1 Oxford Street  
Darlinghurst  
Box 847 P O Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/168301/0 RL LM

Your reference

Telephone

266 8708

26th March 1982

Dear Sir

## APPLICATION TO REGISTER FACTORY

OCCUPIER'S NAME Capricorn Designs P/L  
ADDRESS OF PREMISES Unit 4, 105 Old Pittwater Road, Brookvale  
(938 3547)  
NATURE OF WORK Engineering

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

Would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (i) the full name and address of the applicant,
- (ii) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (iii) the relevant section or ordinance under the Local Government Act, if objection is raised to the application, and
- (iv) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

*J W Riordan*

J W RIORDAN  
Secretary

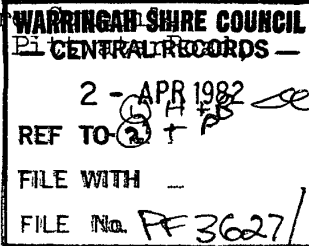
*Express satisfaction*  
*to B objection*  
*14/4/82*



## Department of Industrial Relations



The Shire Clerk,  
Warringah Shire  
Civic Centre,  
DEE WHY 2099



1 Oxford Street  
Darlinghurst  
Box 847 P O Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/168301/0 RL LM

Your reference

Telephone

266 8708

26th March 1982

Dear Sir

APPLICATION TO REGISTER FACTORY

OCCUPIER'S NAME Capricorn Designs P/L  
ADDRESS OF PREMISES Unit 4, 105 Old Pittwater Road, Brookvale  
(938 3547)  
NATURE OF WORK Engineering

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

Would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (i) the full name and address of the applicant,
- (ii) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (iii) the relevant section or ordinance under the Local Government Act, if objection is raised to the application, and
- (iv) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

for J W RIORDAN  
Under Secretary



# Department of Industrial Relations



The Council  
 1111 an the Council  
 1111 1111, 11 1111 1111  
 20 9

1 Oxford Street  
 Darlinghurst

Box 847 P O Darlinghurst 2010  
 Telegrams Labind Sydney

Our reference 32/163/68/0 RL SH

Your reference

Telephone

266 8708

5th March 1982

Dear Sir

APPLICATION TO REGISTER FACTORY

OCCUPIER'S NAME 11111111 11111111 1111

ADDRESS OF PREMISES 2-105 Old Pittwater Road, P.O. Box 938 2229

NATURE OF WORK Cabinet making - manufacture

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

Would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (i) the full name and address of the applicant,
- (ii) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (iii) the relevant section or ordinance under the Local Government Act, if objection is raised to the application, and
- (iv) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

*R. S. Dodds*

for R. S. DODDS J  
 Under Secretary

1 OF 1111

*Egy. 1111 1111 1111*  
*1111 1111 1111*  
*11/3/82*

WP  
 15382

T1lg

SC/mb Pf 3627/105

18th March 1982

The Under Secretary,  
Department of Industrial Relations,  
P O Box 847,  
DARLINGHURST 2010

APPLICATION TO REGISTER FACTORY  
Your Reference RL SH 32/168068/0

APPLICANT Supreme Kitchens P/L

SUBJECT LAND 3/105 Old Pittwater Rd, Brookvale

ENVIRONMENTAL PLANNING INSTRUMENT Warringah Shire Planning  
Scheme

ZONE General Industrial 4(a)

Dear Sir,

On the information supplied in your letter dated 5/3/82,  
in respect of the subject land, you are advised that such  
development is permissible without Council's planning consent  
and does not require any works to upgrade the building in  
accordance with the requirements of Ordinance 70, and the  
application to register the factory can proceed

Your Department is thanked for its customary consultation  
in this matter

Yours faithfully,

(L G Riordan)  
SHIRE CLERK

18 3-82



T1mb

SC/mb PF 3627/105

18th March 1982

Supreme Kitchens P/L  
3/105 Old Pittwater Rd  
BROOKVALE 2100

Dear Sir,

re Application to Register Factory at 3/105 Old Pittwater  
Rd, Brookvale, for the purpose of Cabinet making

This Council has received a letter dated 5/3/82, from the Under Secretary, Department of Industrial Relations, advising that you have applied to that Department to register a factory at the above site for the purpose described in the heading of this letter

You are advised that this land is subject to the provisions of Warringah Shire Planning Scheme, General Industrial 4(a). The effect of this environmental planning instrument on your proposal is that it is permissible without Council's planning consent. The Department of Industrial Relations has therefore been advised that the Council has no objection to the registration of your factory for the purpose for which you have applied.

It is hoped this information is of assistance to you and satisfactorily clarifies the matter.

Yours faithfully,

(L G Riordan)  
SHIRE CLERK

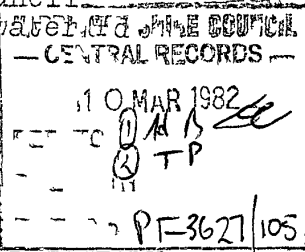
18382



# Department of Industrial Relations



The Shire Clerk  
Warrangan Shire Council  
Civic Centre, Pittwater Rd  
DEE WHY 2099



1 Oxford Street  
Darlinghurst  
Box 847 P O Darlinghurst 2010  
Telegrams Labind Sydney

Our reference 32/168068/0 RL SH

Your reference

Telephone

266 8708

5th March 1982

Dear Sir

APPLICATION TO REGISTER FACTORY

OCCUPIER'S NAME Supreme Kitchens Pty Ltd

ADDRESS OF PREMISES 3-105 Old Pittwater Rd BROOK HILL Ph 938 2229

NATURE OF WORK Cabinet Making

This Department has received an application for registration under the provisions of the Factories, Shops and Industries Act, 1962, of a factory in the abovementioned premises

Would you please advise the Department within 40 days of the above date whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act, 1919, or any proclamation or planning scheme made thereunder

Particular importance is placed on advice of compliance with Ordinance No 70 in respect of the sufficiency and efficiency of the means of escape from the factory in case of fire for persons employed in the factory

Should no reply to this letter be received within the 40-day period, the Department will assume that the premises conform to the requirements of Ordinance No 70 and that the Council has no objections to the registration of the premises as a factory. On the basis of this assumption, the Department will take action to register the premises

In your reply, please quote -

- (i) the full name and address of the applicant,
- (ii) any decision by Council that a specified non-compliance with the ordinances under the Local Government Act is such as need not be rectified,
- (iii) the relevant section or ordinance under the Local Government Act, if objection is raised to the application, and
- (iv) the reasons why the premises do not satisfy the requirements of Ordinance No 70, should this be the case

Yours faithfully

for R S DOBBS J M O'RIORDAN  
Under Secretary

WARRINGAH SHIRE COUNCIL



CIVIC CENTRE PITTWATER ROAD DEE WHY 2099

TELEPHONE 982 0333

In reply please quote GM

10 8 76

The Under Secretary,  
Department of Labour & Industry,  
G P O Box 21,  
SYDNEY N S W 2001

APPLICATION TO REGISTER FACTORY

APPLICANT *Efficiency Displays Pty Ltd*  
SUBJECT LAND *5/108 Old Pittwater Rd Brookvale*  
W S C TOWN PLANNING SCHEME - ZONE *W 2/10 in cl 1*

Dear Sir,

On the information supplied with reference to your application to use the subject land for *display equipment* you are advised that such development is

- a) permissible, and the application to register the factory can proceed,
- b) ~~permissible with consent, the necessary consent has/has not been granted and therefore the registration of the factory may/may not proceed until Land Use Consent has been obtained from this Council by the applicant,~~
- c) ~~a prohibited use, and therefore the Council must oppose the registration of a factory for this land use,~~

and that the requirements of the Warringah Shire Council Planning Scheme Ordinance must be complied with

Yours faithfully,

*R M Stuckey*

(R M Stuckey),  
SHIRE CLERK *Rv*

Copy to applicant



# Department of Labour and Industry



The Shire Clerk  
Warringah Shire Council  
Civic Centre Pittwater Road  
DEE WHY 2099

IF C		TEPT	
D/SC		ENGR	
S/T		TPD	(1) ✓
C/C		H & B	(1) ✓
		RATES	
		I/C	
REC'D	5 AUG 1976		No

A P A Chambers  
53 Martin Place  
Sydney N S W 2000

Box 21 G P O  
Sydney N S W 2001

Telegrams Labind Sydney

Our reference JV CM

Your reference

30th July 1976

Telephone 2 0344  
Extension 320

0(9/8)

## FACTORIES, SHOPS AND INDUSTRIES ACT 1962

### APPLICATION TO REGISTER FACTORY

I advise that application has been made for registration under the provisions of the Factories Shops and Industries Act 1962 of a factory in premises as mentioned below and this Department is required in terms of that Act to take into consideration the provisions of any other Act affecting or relating to the use of the premises

This Department should be informed within 28 days from date hereof whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act 1919 as amended or any proclamation or planning scheme made thereunder After expiry of that time action will be taken to determine this application

#### PLEASE QUOTE IN YOUR REPLY

- (1) FULL NAME AND ADDRESS OF APPLICANT
- (2) THE RELEVANT SECTION OR ORDINANCE UNDER THE ACT IF OBJECTION IS RAISED

with LTP 9 Aug 76

*[Signature]*  
A NEWBIGGING)

Under Secretary

Name of Applicant	Address of Premises proposed to be used as a Factory	Persons to be employed		Nature of work to be carried on
		M	F	
Efficiency Displays Pty Limited	105 Old Pittwater Rd Brookvale	15	5	Display Equipment
Tel 93 2737				

(6)

GM SG/SF/3627/105

23rd October, 1975

Under Secretary,  
Department of Labour & Industry  
G P O. Box 21,  
SYDNEY N S.W. 2001

Your Ref Mr B Morgan

Dear Sir,

Re Factory Registration J A Fremantle of 5/105 Old Pittwater Rd,  
Brookvale

Reference is made to your letter dated 15th October, 1975 and  
it is advised that todate no approval has been granted by  
Council for the above.

Yours faithfully,

*Pen*

(R M Stuckey),  
SHIRE CLERK

*file*

Mrs G. Marsh. Town Planning Dept



MR 120



BM DL

## DEPARTMENT OF LABOUR AND INDUSTRY, N S W

ADDRESS ALL MAIL TO G P O BOX 21 SYDNEY 2001 TELEGRAPHIC ADDRESS LABIND SYDNEY

SF 3627/105

A P A CHAMBERS  
53 MARTIN PLACE SYDNEY  
15th October, 1975The Shire Clerk,  
Warringah Shire Council,  
Civic Centre,  
Pittwater Road,  
DEE WHY N S W 2099

DEPT		DEPT	
OM		ENGR	
F/C		TPO	
D/S		H & B	
S/T		PATLS	
C/C		I/C	
REC D 22 OCT 1975		Do	

Tel ph 20344 EXT 320

ply  
pleas q te No. Mr B Morgan

Dear Sir,

Your ref GM SG/SF/3627/105

I refer to your letter dated 5th September, 1975 regarding development consent for an application for factory registration submitted by J A Fremantle of 5/105 Old Pittwater Road, Brookvale

Please advise this office as soon as possible whether Council has received a development application and if so, has approval been granted to use these premises for Car Detailing

If a reply is not received within twenty-one days from the date hereof, action will be taken to finalise the factory registration

Yours faithfully,

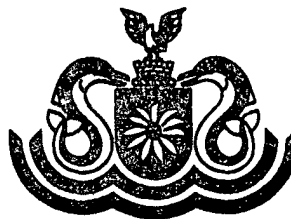
B Morgan

J A NEWBIGGING  
Under Secretary

Advice  
letter stating  
no approval  
then to Mr  
Gm 22/10.

## WARRINGAH SHIRE COUNCIL

CIVIC CENTRE PITTWATER ROAD DEE WHY 2099



TELEPHONE 982 0333

In reply please quote GM

The Under Secretary,  
Department of Labour & Industry,  
G P O Box 21,  
SYDNEY N S W 2001

5-9-75

APPLICATION TO REGISTER FACTORYAPPLICANTSUBJECT LANDW S C TOWN PLANNING SCHEME - ZONE

*I. Freyante*  
*105 Pittwater Rd*  
*Zone 4(c).*

Dear Sir,

On the information supplied with reference to your application to use the subject land for car detailing you are advised that such development is

- a) ~~permissible~~, and the application to register the factory can proceed,
- b) permissible with consent, the necessary consent ~~has~~ has not been granted and therefore the registration of the factory ~~may~~ may not proceed until Land Use Consent has been obtained from this Council by the applicant,
- c) a ~~prohibited use~~, and therefore the Council must oppose the registration of a factory for this land use,

and that the requirements of the Warringah Shire Council Planning Scheme Ordinance must be complied with

Yours faithfully,

*R M Stuckey*

(R M Stuckey),  
SHIRE CLERK *Rv*

Copy to applicant



# DEPARTMENT OF LABOUR AND INDUSTRY, N S W

ADDRESS ALL MAIL TO G P O BOX 21 SYDNEY N S W 2001 TELEGRAPHIC ADDRESS LABIND SYDNEY

SF 3627 / 105

(3)

The Shire Clerk,  
The Shire Council of Warringah,  
Civic Centre,  
Pittwater Road,  
DEE WHY N S W 2099

A P A CHAMBERS

53 MARTIN PLACE SYDNEY

26th August, 1975

Telephone 2 0344 Ext 320

I eply  
pl q t N BM MC

DLPT			
O#			
F#			
D S#			
S/#			
C/C			
REC D 29 AUG 1975			

O(3/4)

FACTORIES SHOPS AND INDUSTRIES ACT 1962

## APPLICATION TO REGISTER FACTORY

I advise that application has been made for registration under the provisions of the Factories Shops and Industries Act 1962 of a factory in premises as mentioned below and this Department is required in terms of that Act to take into consideration the provisions of any other Act affecting or relating to the use of the premises

This Department should be informed within 28 days from date hereof whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act 1919 as amended or any proclamation or planning scheme made thereunder After expiry of that time action will be taken to determine this application

PLEASE QUOTE IN YOUR REPLY

- (1) FULL NAME AND ADDRESS OF APPLICANT
- (2) THE RELEVANT SECTION OR ORDINANCE UNDER THE ACT IF OBJECTION IS RAISED

noted to TR 2 Sept 1975

*J A Morgan*  
(J A NEWBIDDING)  
Under Secretary

Name of Applicant	Address of Premises proposed to be used as a Factory	Persons to be employed		Nature of work to be carried on
		M	F	
J A Fremantle	Bay 5/105 Old Pittwater Road, Brookvale	2		Car Detailing

## WARRINGAH SHIRE COUNCIL

(2)

CIVIC CENTRE PITTWATER ROAD DEE WHY 2099



TELEPHONE 982 0333

In reply please quote GM

The Under Secretary,  
Department of Labour & Industry,  
G P O Box 21,  
SYDNEY N S W 2001

11/8/75

APPLICATION TO REGISTER FACTORYAPPLICANT

Loaded Timber Products Pty

SUBJECT LAND

105 Old Pittwater Rd, B' Vale

W S C TOWN PLANNING SCHEME - ZONE

Zon kind 4(2)

Dear Sir,

On the information supplied with reference to your application  
to use the subject land for Furniture  
you are advised that such development is

- a) permissible and the application to register the factory can proceed,
- b) permissible with consent, the necessary consent has/has not been granted and therefore the registration of the factory may/may not proceed until Land Use Consent has been obtained from this Council by the applicant,
- c) a prohibited use, and therefore the Council must oppose the registration of a factory for this land use,

and that the requirements of the Warringah Shire Council Planning Scheme Ordinance must be complied with

Yours faithfully,

(R M Stuckey),  
SHIRE CLERK RN

Copy to applicant



## DEPARTMENT OF LABOUR AND INDUSTRY, N S W

ADDRESS ALL MAIL TO G.P.O. BOX 21 SYDNEY N.S.W. 2001 TELEGRAPHIC ADDRESS LABIND SYDNEY

The Shire Clerk,  
The Shire Council of Warringah,  
Civic Centre,  
Pittwater Road,  
DEE WHY N S W

A P A CHAMBERS

53 MARTIN PLACE SYDNEY

21st July, 1975

Telephone 20344 Ext 320

DEPT		D-PT	I ply
OM		LN GR	pl e-q
F/C		T P O	(2) ✓
D/SC		H & B	(1) ✓
S/T		RAT'S	
C/C		I C	
REC'D - 5 AUG 1975			

BM DL

0(6/8) ①

FACTORIES SHOPS AND INDUSTRIES ACT 1962**APPLICATION TO REGISTER FACTORY**

I advise that application has been made for registration under the provisions of the Factories Shops and Industries Act 1962 of a factory in premises as mentioned below and this Department is required in terms of that Act to take into consideration the provisions of any other Act affecting or relating to the use of the premises

This Department should be informed within 28 days from date hereof whether the use of the premises as a factory to carry on work of the nature described would be restricted by or under the provisions of the Local Government Act 1919 as amended or any proclamation or planning scheme made thereunder After expiry of that time action will be taken to determine this application

PLEASE QUOTE IN YOUR REPLY

- (1) FULL NAME AND ADDRESS OF APPLICANT
- (2) THE RELEVANT SECTION OR ORDINANCE UNDER THE ACT IF OBJECTION IS RAISED

*for B Morgan*  
(J A NEWBIGGING)  
Under Secretary

*noted to TP 7/8*

Name of Applicant	Address of Premises proposed to be used as a Factory	Persons to be employed		Nature of work to be carried on
		M	F	
Treaded Timber Products Pty Ltd ,  Tel 939 2753	105 Old Pittwater Brookvale (Road)	1	$\frac{1}{2}$	Furniture



## Craig Ridley

---

**From:** Carol Freshwater <Carol.Freshwater@northernbeaches.nsw.gov.au>  
**Sent:** Wednesday, 19 January 2022 1:36 PM  
**To:** Craig Ridley  
**Subject:** 99 OLD PITTWATER ROAD BROOKVALE,  
**Attachments:** Consent Register - 1965233 - 97 OLD PITTWATER ROAD BROOKVALE.jpg; Consent Register - 1980163 - 97 OLD PITTWATER ROAD BROOKVALE.jpg; HB3627-97-99-C-719-92.PDF

Craig

The property was originally called 97-99 Old Pittwater. The factory on 99 was built pre 1962 too early for council to still have the original consent or plans

The attached is all council can supply

Carol

Carol Freshwater  
Information Access Officer

Information Management  
t 02 8495 6166  
carol.freshwater@northernbeaches.nsw.gov.au  
northernbeaches.nsw.gov.au

Northern Beaches Council

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL. This email and any materials contained or attached to it ("Contents") may contain confidential information. If you are not the intended recipient contact the sender immediately, delete the communication from your system and destroy any copies. The contents may also be subject to copyright. Any unauthorised copying, disclosure or distribution of the contents is strictly prohibited. Northern Beaches Council makes no implied or express warranty that the integrity of this communication has been maintained. The contents may contain errors, computer viruses or have been subject to interference in transmission. Northern Beaches Council. Northern Beaches Council <<http://www.Northernbeaches.nsw.gov.au>>

## WARRINGAH SHIRE COUNCIL

Telephone:  
93-0241-9

ED:JM



Shire Hall  
BROOKVALE

### Shire of Warringah Planning Scheme Ordinance.

(Sec. 343K of the Local Government Act.)

#### LAND USE CONSENT.

No. 65/233.

Applicant's Name and Address:

**Jules Joris (Holdings) Pty. Ltd.,**  
155 King Street,  
**SYDNEY, N.S.W.**

Description of Land: **Lot 1, D.P. 512600, No. 97 Old Pittwater Road, Brookvale.**

**The Council of the Shire of Warringah** as the responsible authority under the Shire of Warringah Planning Scheme Ordinance hereby consents to the abovementioned land being used for the following purposes:

#### **Installation of Petrol Pump and Underground Tank.**

subject to the following conditions:

- (a) Under Cl.40(4) of the Shire of Warringah Planning Scheme Ordinance this Consent shall be void if the development to which it refers is not substantially commenced within one year after the date of the consent; provided that the responsible authority may, if good cause be shown, grant an extension or renewal of such consent beyond such period.
- (b) Compliance with all Health and Building Department requirements.

Dated this **twenty-first** day of **December,** 19 **65**.

J. MORGAN,

SHIRE CLERK, per 

#### **IMPORTANT.**

- (1) It is to be clearly understood that the above consent is NOT an approval to carry out any structural work. A formal Building Application must be submitted to Council and be approved before any structural work is carried out to implement the above consent, also the applicant is not relieved of any obligation to obtain any other approval required under any other Act.
- (2) It is provided by Clause 76 of the Shire of Warringah Planning Scheme Ordinance that any person who contravenes or fails to comply with any of the conditions of this consent shall be guilty of an offence and be liable to a penalty of £100 and also a daily penalty of £5 per day for any continuance of the offence.

WARRINGAH SHIRE COUNCIL



Page 1.

CIVIC CENTRE  
PITTWATER RD.  
DEE WHY  
952-0333

FILE No. SF. 3627/97.

LOCAL GOVERNMENT ACT 1919  
PART IIIA TOWN PLANNING CONSENT No. 80/163.

Under Clause 40, Warringah Shire Planning Scheme Ordinance.

Description of Land: Lot 1, D.P. 512600, No. 97, Old Pittwater Road, Brookvale.

Applicant's Name & Address: Paynter & Dixon Pty. Ltd., 161 Clarence Street, Sydney, N.S.W., 2000.

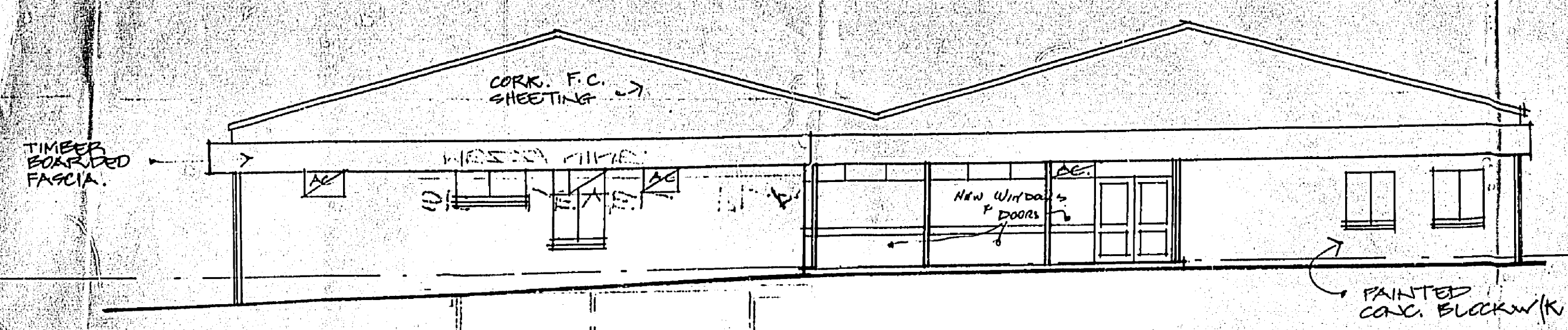
The Council of the Shire of Warringah as the responsible authority hereby consents to the above land being developed by:-

Installation of an underground fuel storage tank, inter-connection and vent.

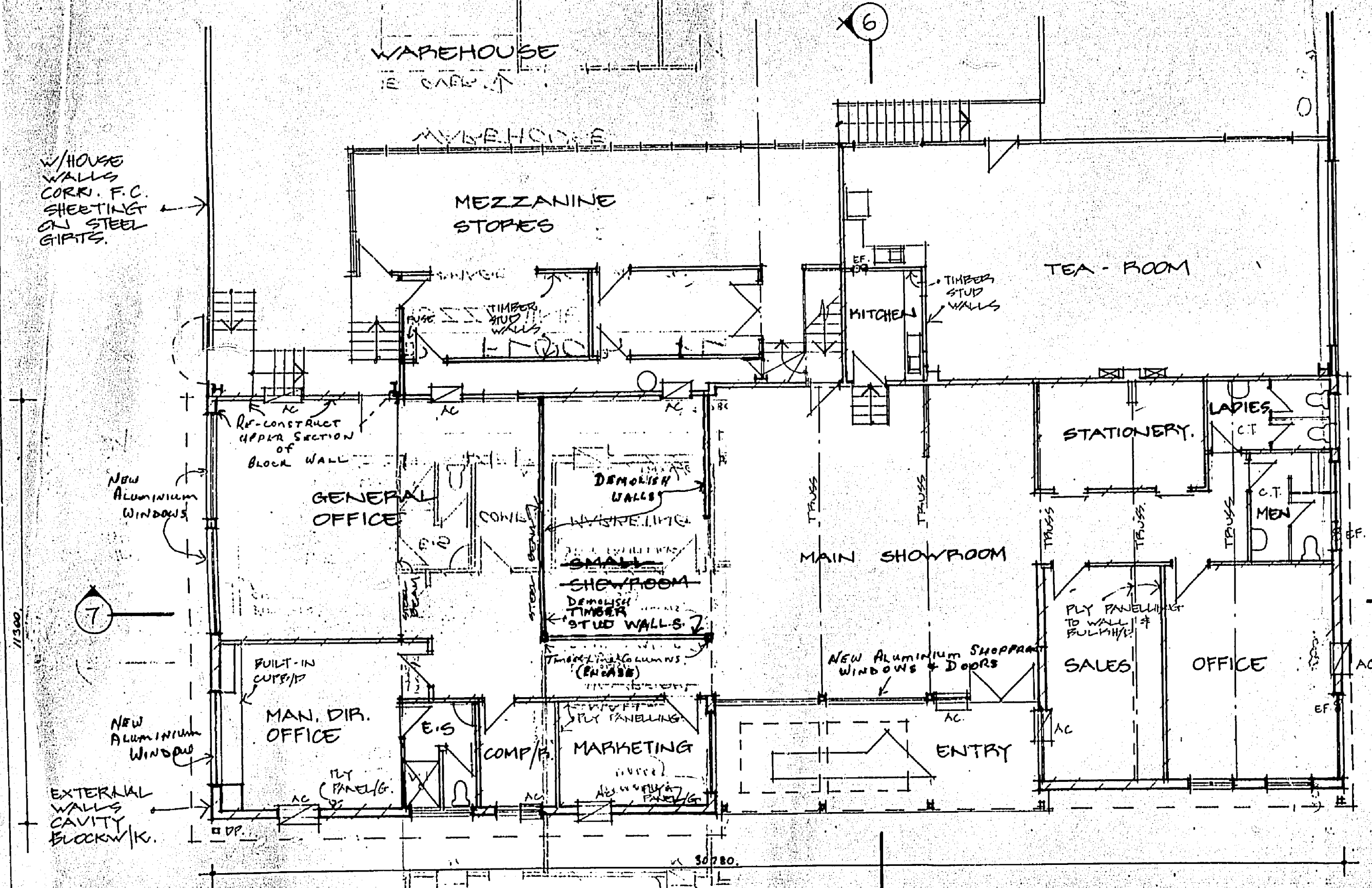
subject to the following conditions:

1. Under Clause 40(4) of the Shire of Warringah Planning Scheme Ordinance, this consent shall be void if the development to which it refers is not substantially commenced within one year after the date of the Consent, provided that the responsible authority, may, if good cause be shown, grant an extension or renewal of such consent beyond such period.
2. Compliance with Council's Health and Building Department requirements and no work of any kind, clearing or vegetation removal, pursuant to this Consent, to be done on the site until after a valid Building Approval has been issued.
3. All loading and unloading to take place within the boundaries of the subject property.
4. All parking areas on approved building plans being used solely for this purpose.
5. The premises shall not be used as a "shop" as defined in Clause 4 of Warringah Shire Planning Scheme Ordinance.
6. Development being in accordance with plans numbered A1, dated 22nd April, 1980, submitted 19th May, 1980.
7. No sales of fuel from the pump.
8. Street numbers being affixed to kerb fronting each allotment and adequately displayed on the building. (Please obtain correct numbers from the Engineer's Department where approved numbers are available for purchase.)



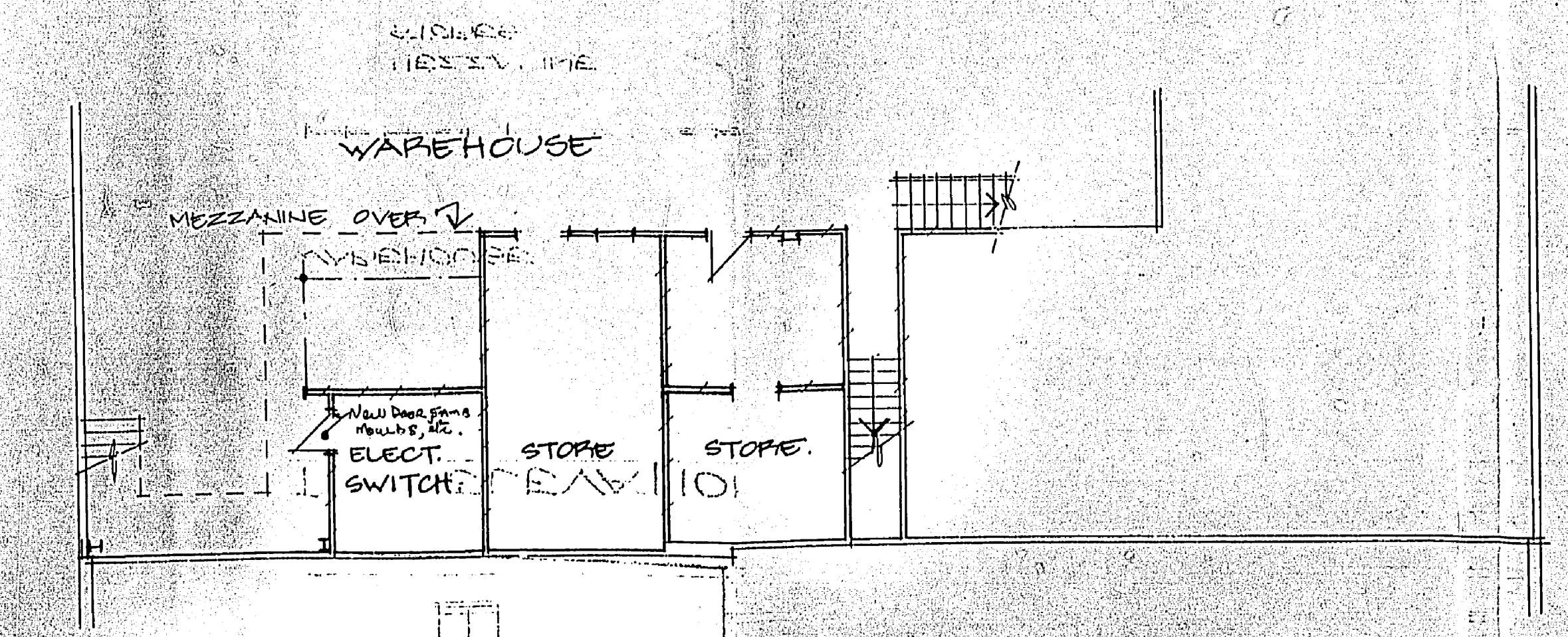


1 WEST ELEVATION



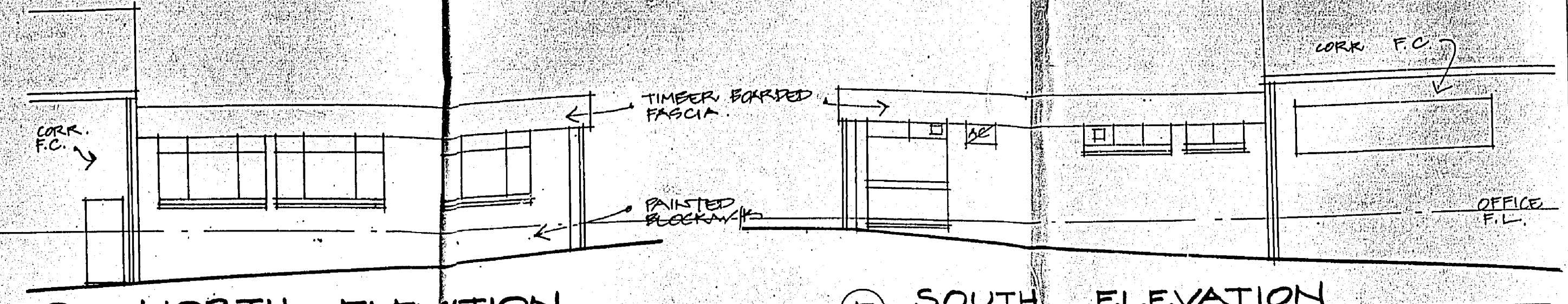
2 GROUND FLOOR PLAN

OFFICE / MEZZANINE  
(NOTE: FIRE DAMAGE NOT SHOWN)

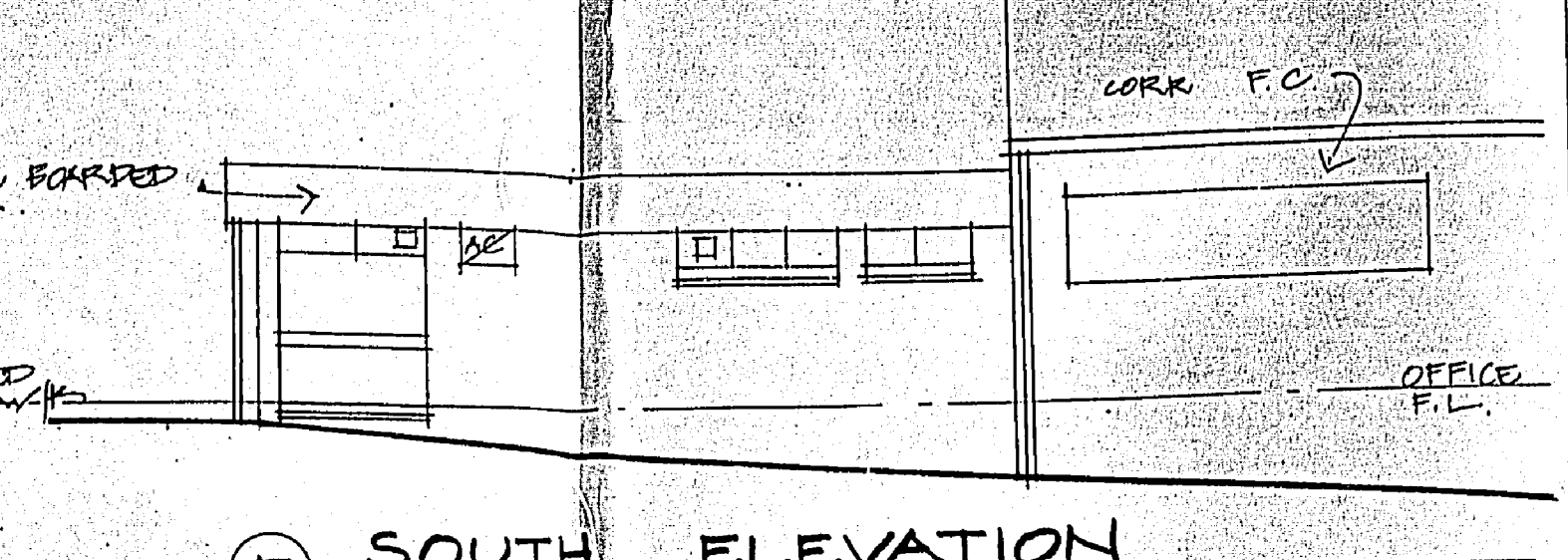


3 W/HOUSE LEVEL PLAN

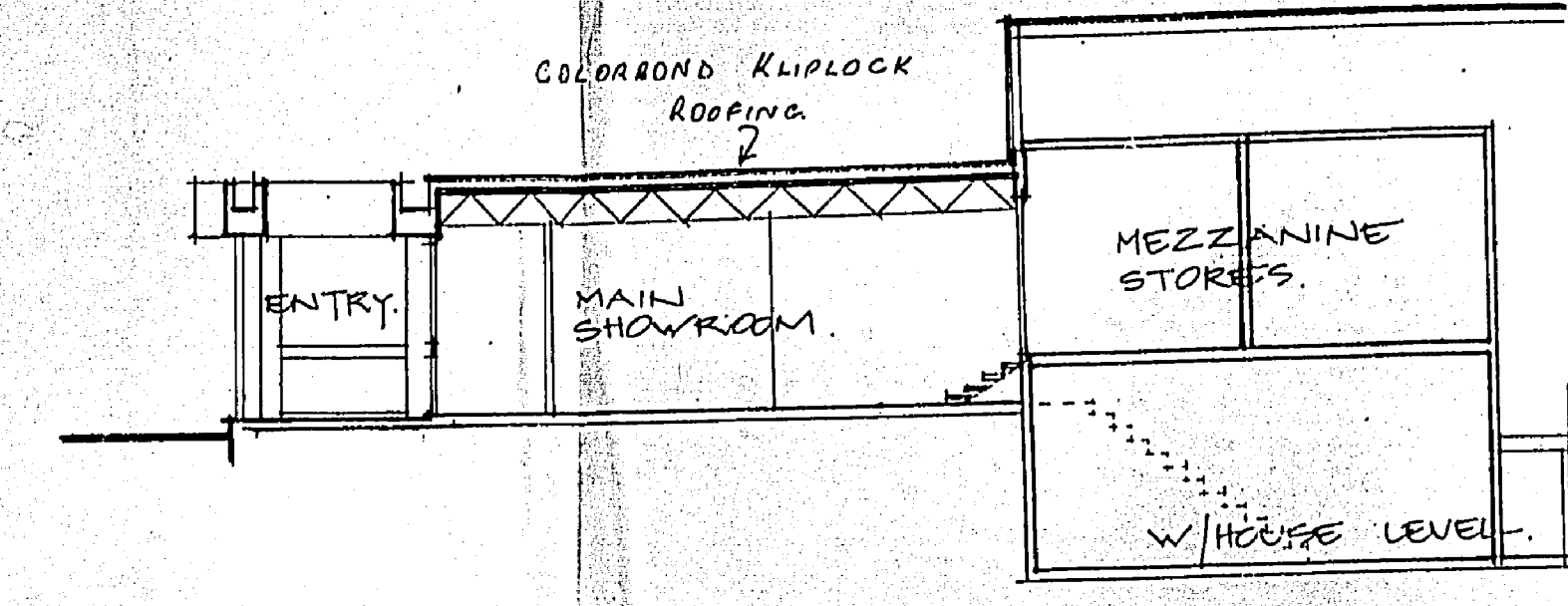
BELOW MEZZANINE



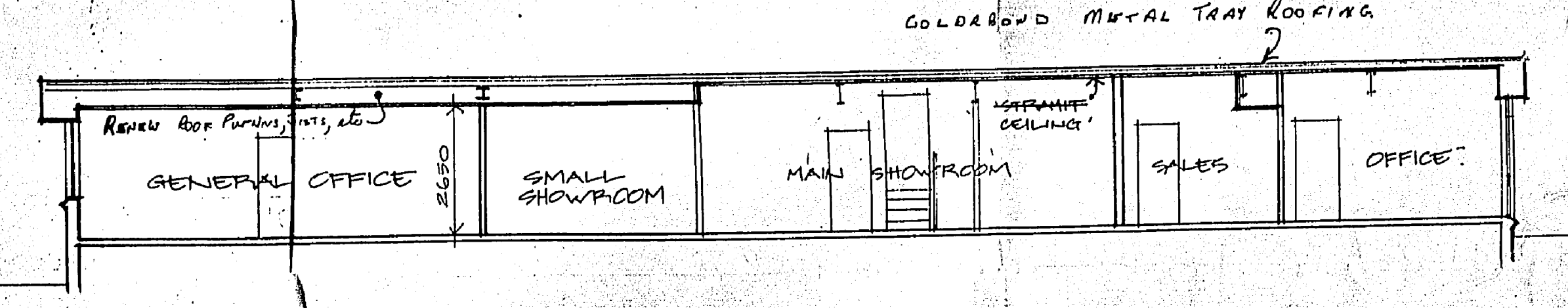
4 NORTH ELEVATION



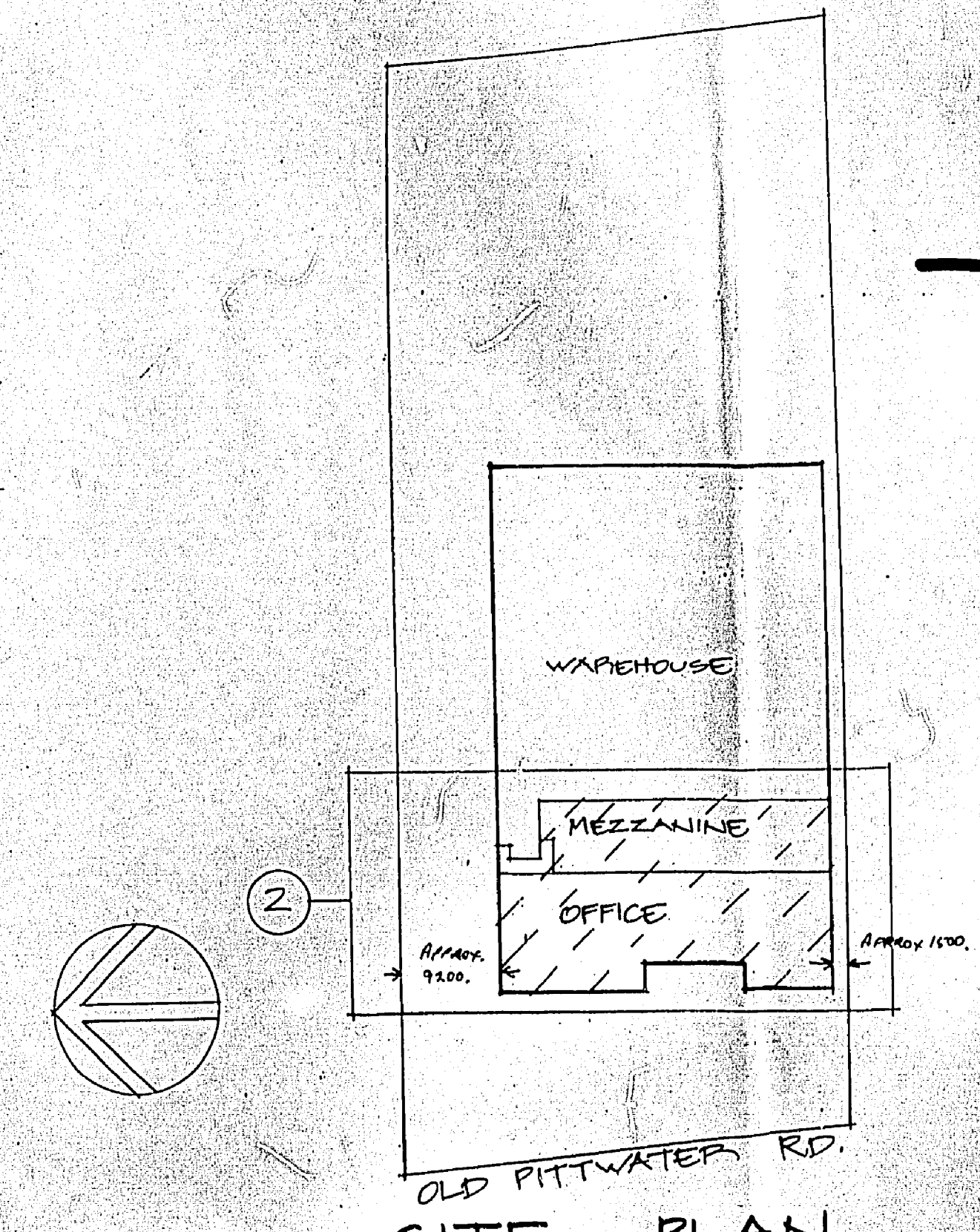
5 SOUTH ELEVATION



6 SECTION



7 SECTION



8 SITE PLAN

719/92  
13 MAR 1992

John Bruce + Partners  
Pty Limited

Architects  
Planners  
Project Managers  
Development Consultants  
39 Chandos Street  
St Leonards 2058  
Telephone: (02) 908 4000  
Fax: (02) 908 2224  
Correspondence:  
PO Box 434  
St Leonards  
NSW 2065 Australia

Scale 1:100 UNO  
Printed Date Drawn MARCH 92  
Approved Drawn C.M.N.  
Drawing ST OLD PITTSWATER RD. BROOKVALE  
MEASURED DRAWING  
Job No. 2674 Sheet M-1 Amd.

MICROBOX

GOSFORD MICROGRAPHICS PTY LTD  
UNIT 3, 12 BOH - MALE CL, CERRILEY VALE, N.S.W. 2261 AUSTRALIA  
TEL: (043) 89 8066 FAX: (043) 89 8077



THE COUNCIL OF THE SHIRE OF WARRINGAH AS THE LOCAL AUTHORITY UNDER THE LOCAL GOVERNMENT ACT 1919, AS AMENDED, HEREBY APPROVES PLAN NO. 718/92 FOR THE ERECTION OF ADDITION ON LOT 1 DP: 512600, STREET: 97 99 OLD PITTMAN ROAD, LOCALITY: BROOKVALE UNDER THE PROVISIONS OF PART XI OF SUCH ACT, SUBJECT TO THE FOLLOWING CONDITIONS:

1. Local Government Act, 1919, as amended, and Ordinances thereunder being complied with.
2. Council's Policy Guidelines relative to the erection of buildings being complied with.
3. Metropolitan Water, Sewerage & Drainage Board By Laws relative to all sanitary plumbing and drainage being complied with and Special Inspection Certificates from such authority being produced before occupation of building. Plans should be submitted to the Building Plans Section of the Board prior to commencement of building - failure may lead to penalty and demolition of work.
4. Closest Accommodation in accordance with Cl. 11A Ordinance 44 being provided during building operations.
5. Street levels in relation to driveways, fences, garages, etc. being established from the Shire Engineer before construction commences.
6. Builder's Refuse being satisfactorily destroyed on the allotment or removed to Council rubbish tip.
7. Notice of 48 hours being given to Council prior to the covering of the following:
  - (a) Trenches (with steel in position) before footings are laid;
  - (b) Basement course;
  - (c) Structural roof members;
  - (d) Drains.
8. The building being constructed in Type 2 construction.
9. External arch bars being hot dipped galvanised.
10. The external door opening inwards being capable of being kept in an open position in accordance with Cl. 24.20(5) of Ordinance 70.
11. External doors being capable of being opened without recourse to a key from the inside during normal working hours.
12. The exit doors being readily openable without a key and by means of a single hand action on a single device which is located between 900mm and 1000mm above the floor and does not comprise a ball or a part of a separately operated deadlock from the side that would face any person seeking egress from the building.
13. Glazing being provided in accordance with Clause 53.4 of Ordinance 70.
14. The submission of a report from the NSW Fire Brigades covering accessibility and suitability of hydrants and fire mains in accordance with Clause 27.3(5) of Ordinance 70 prior to installation.
15. The fire hose reels being constructed and installed in accordance with Specification No 10 "Fire mains, certain water service pipes, hydrants, hose reels and water supply". All hoses having a minimum internal diameter of 20mm and a maximum length of 30m.
16. The nozzle of the fully extended hose reel to extend to all parts of the floor area within the storey.
17. The provision of a report from the NSW Fire Brigades relating to design of hose reels to comply with the provisions of Clause 27.2(6) of Ordinance 70 prior to installation.
18. Submission to Council of a certificate from a licensed plumber that the fire hose reels/hydrants/fire mains have been installed in accordance with Specification No 10 and those plans submitted to, and certified by, the NSW Fire Brigades.
19. All rooms in the building being ventilated in accordance with the provisions of Ordinance 70.

20. Metal tray sheeting/roofing being permanently coloured such as "Colorbond" or similar.
21. The development to which this approval relates being completed within 12 months from the date of establishment of substantial commencement.

*PL Thomas* GENERAL MANAGER/SHIRE CLERK  
per *Blacey* BUILDING SURVEYOR  
DATE OF APPROVAL: 03/04/1992

N.B.  
Notice in Writing being given on completion of building before occupation in accordance with Cl 3.3 Ordinance 70.  
Notice is hereby given that:-

- (a) Use or occupation of the building is prohibited until it has been completed to the satisfaction of the Council and in accordance with the Local Government Act, Ordinance 70 and approved plans. Penalty \$200.00 plus daily penalty of \$10.00.
- (b) This approval shall be void if building work is not substantially commenced within 12 months after the date of approval.

#### WARNING

These building plans must be submitted to any Business Office of the Metropolitan Water, Sewerage and Drainage Board at least 14 days before commencement of work. The plans and a building application form, submitted to Business Offices, need to be submitted to ensure that the proposed structure meets the requirements of the Board's By-Laws concerning:

- (a) Location of Sanitary Structures;
- (b) Relationship of the building to water, mains, sewers and stormwater drains; and for siting purposes in accordance with Section 91, 96 and 171 of the "Local Government Act, Ordinance 70" and for the satisfaction of a building fire and for the satisfaction of the Board's By-Laws.

**PLACES TO SUBMIT THESE PLANS BEFORE COMMENCING WORK WILL RENDER THE OWNER LIABLE TO A PENALTY AND MAY RESULT IN THE DEMOLITION OF THE WORK AT THE BUILDER'S EXPENSE**  
Business Offices are located at:  
BLACKTOWN - 22 Main Street  
CAMPTON TOWN - 106 Queen Street  
CHERRYWOOD - 66-70 Archer Street  
DIE WILLY - 10 Howard Street  
EASTWOOD - 41 Stuart Street  
HORNSHILL - Cnr. Fawcett and David Avenue & Hunter St.  
KATONGBA - 103 Katoomba Street  
ROCKDALE - 364 Princes Highway  
LIVERPOOL - Cnr. Dyer & Moore Streets  
MIRANDA - 19-23 Elice Road  
MURRUMBidge - 1-6 Church Street  
PERRITH - 140-142 Elice Road  
SYDNEY - 415-423 Elice Road  
WOLLONGONG - 4-6 Cocke Street  
CONISTON - Old Springhill Road

APPROVAL NO: 718/92, DP: 512600, STREET: 97 99 OLD PITTMAN ROAD, LOCALITY: BROOKVALE

#### CONDITIONS OF BUILDING APPROVAL

##### ESSENTIAL SERVICES

1. The following essential services must be designed and installed in accordance with the provisions of Ordinance 70 and must be maintained in an effective working condition:
  - (a) Fire mains (as required by Clause 27.1).
  - (b) Hose reels (as required by Clause 27.2).
  - (c) Hydrants (as required by Clause 27.3).
2. The submission to Council of a certificate of compliance in respect to the design and installation of each listed essential service in accordance with form 6, part 59 of Ordinance 70 before occupation of the building.
3. The submission to Council annually of a certificate of compliance in respect to the maintenance of each essential service is maintained at a standard not less than that to which it was originally designed and installed.

*PL Thomas* GENERAL MANAGER/SHIRE CLERK  
per *Blacey* BUILDING SURVEYOR  
DATE OF APPROVAL: 03/04/1992

N.B.  
Notice in Writing being given on completion of building before occupation in accordance with Cl 3.3 Ordinance 70.  
Notice is hereby given that:-

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- (b) This approval shall be void if building work is not substantially commenced within 12 months after the date of approval.

sp/pit



**FILE No**

**H B**

3627 197-99 C

STREET No. 97-99 STREET Old Pittwater Rd SUBURB Brookvale

SLOT No. 114A PORTION No. 2041 D.P. No. 512600

TYPE OF BUILDING 662 APPROVAL No. 22-719/93

**-DO NOT LEAVE FILE IN STRONG SUNLIGHT-**

DO NOT LEAVE FILE IN STRONG SUNLIGHT

## REESTABLISHMENT TO OFFICERS

FOR ACTION		ACTION TAKEN		FOR ACTION		ACTION TAKEN	
Referred To	On Date	INITIALS	DATE RECD RECORDS	Referred To	On Date	INITIALS	DATE RECD RECORDS
CAS	24/3/92						
COS	10/4/92						
AC	24/5/92						
A.C.	24/5/92						
AC	11/6/92						

200

MAKE UP NEW  
 FILE COVER NOW

H B 3627 / 97-99 - C

H B 3627/197-99-C

19137

## FILES



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**MANCHESTER PTY. LTD.**

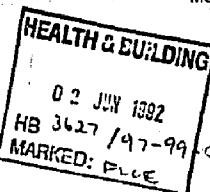
BUILDING & DEVELOPMENT CONSULTANT A.C.N. 002 822 479

UNIT 203, 221 BEN BOYD RD.  
NEUTRAL BAY N.S.W. 2089

AUSTRALIA  
FAX: (02) 908 2038  
MOBILE: 018 23 3527  
TEL: (02) 953 8246

22 May 1992

Mr Andy Caponas  
Senior Health & Building Surveyor  
Warringah Shire Council  
Civic Centre  
DER WHY NSW 2099



Re: The Property of Hale Imports Pty Ltd, 97-99  
Old Pittwater Rd, Brookvale

Fire Services

Dear Andy,

Thank you for your time given during our on-site meeting yesterday to clarify the fire regulations and appliance requirements for the damaged showroom and administration block of the above premises.

I confirm your advice to me of the total fire appliance requirements as follows:-

1. The two doorways situated at the rear, or eastern concrete block wall, giving access to the mezzanine and warehouse areas and the former kitchen area, are to be fitted with 1 hour fire rated doors, complete with timber, rated jambs.
2. The concrete blockwork of the truss mounting slightly north of the doorway apertures is to have the blockwork completed and encasing, the truss mounting.
3. The installation of 1 x hose reel with sufficient scope to reach all sections of the front showroom/administration block areas.
4. It is noted that there is no requirement for Firecheck lining in the showroom/administration block area.

I have relayed this information to the contractor and to the Loss Adjuster.

Thank you for your assistance.

Yours faithfully,

GAVIN A. SIMPSON J.P.

Building Consultant  
B.L.N. 29175  
M.B.A.

18/6/92

**MAUNCHEST PTY. LTD.**

HEAD OFFICE  
203/221 Ben Boyd Road  
NEUTRAL BAY NSW 2089  
AUSTRALIA  
Phone (02) 9538246  
Mobile 018233527  
Fax (02) 9082036

BRANCH OFFICE  
47/73 Crane Road  
CASTLE HILL NSW 2154  
AUSTRALIA  
Phone (02) 8991601  
Mobile 018280344  
Fax (02) 8991596

DATE 26th May 1992 TIME HEALTH BUILDING  
FAX NUMBER (02) 9714522  
ATTENTION Mr. Andy Capon 20 May 1992 - C  
NUMBER OF PAGES (INCLUDING THIS ONE) 2 HB 3627/17-92  
MESSAGE Dear Andy,

Letter Re OUR MISSING  
ORIGINAL IN FILE.

Mary Thayer

Gavin Simpson

# **MAUNCHEST PTY. LTD.**

BUILDING & DEVELOPMENT CONSULTANT A.C.N. 002 822 478

UNIT 203, 221 BEN BOYD RD.  
NEUTRAL BAY N.S.W. 2069

AUSTRALIA

FAX: (02) 908 2036

MOBILE: 018 23 3527

TEL: (02) 953 8248

22 May 1992

Mr Andy Caponas  
Senior Health & Building Surveyor  
Warringah Shire Council  
Civic Centre  
DEE WHY NSW 2099

Re: The Property of Hale Imports Pty Ltd, 97-99  
Old Pittwater Rd, Brookvale

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I confirm your advice to me of the total fire appliance requirements as follows:-

1. The two doorways situated at the rear, or eastern concrete block wall, giving access to the mezzanine and warehouse areas and the former kitchen area, are to be fitted with 1 hour fire rated doors, complete with timber, rated jambs.
2. The concrete blockwork of the truss mounting slightly north of the doorway apertures is to have the blockwork completed and encasing, the truss mounting.
3. The installation of 1 1/2" hose reel with sufficient scope to reach all sections of the front showroom/administration block areas.
4. It is noted that there is no requirement for Firecheck lining in the showroom/administration block area.

I have relayed this information to the contractor and to the Loss Adjustor.

Thank you for your assistance.

Yours faithfully,

GAVIN A. SIMPSON J.P.

Building Consultant  
B.L.N. 29175  
M.B.A.

**MAUNCHEST PTY. LTD.**

BUILDING &amp; DEVELOPMENT CONSULTANT A.C.N. 002 822 478

UNIT 203, 221 BEN BOYD RD.  
NEUTRAL BAY N.S.W. 2089

AUSTRALIA

FAX: (02) 808 2036

MOBILE: 018 23 3527

TEL: (02) 853 824

22 May 1992

Mr Andy Caponas  
Senior Health & Building Surveyor  
Warringah Shire Council  
Civic Centre  
DEB WHY NSW 2099

Re: The Property of Hale Imports Pty Ltd, 97-99  
Old Pittwater Rd, Brookvale

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Yours faithfully,

GAVIN A. SIMPSON J.P.

Building Consultant  
B.L.N. 29175  
M.B.A.



C.S.  
3  
MAIL THIS NOTICE 72 HOURS PRIOR TO INSPECTION

Friday  
22nd  
12 noon

OK.  
NOTICE FOR INSPECTION—FOR BRICKWORK, WALL  
FRAME AND ROOF FRAME COMPLETED  
(PRIOR TO FIXING WALL AND CEILING LINING)

Date 19-5-92

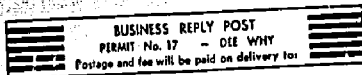
JOB ADDRESS: 97-99 Old Pittwater rd Brookton

20/5/92 In accordance with the conditions of approval embodied in Building  
Approval No. 719/92 I hereby give notice that the  
brickwork, wall frame and roof frame are completed (prior to fixing  
wall and ceiling linings) and are ready for inspection.


OWNER'S NAME: Hble imports PHONE: 9382400.

BUILDER'S NAME: Alan PHONE: 018273325.

No postage stamp required  
if posted in Australia



HEALTH AND BUILDING DEPARTMENT  
WARRINGAH SHIRE COUNCIL  
CIVIC CENTRE, PITTWATER ROAD  
DEE WHY, N.S.W. 2099



Gavin Simpson  
97 Old Pittwater  
Hale Imports  
re. fire damage

953 8246

018 233 521

2:00 WEDNESDAY

## Official Use

On

File Reference

19137...15778

Approval No.

7/19/92

Land  
Description

Check

## SUBJECT LAND - BLOCK LETTERS

No. (INCL. UNIT No.)

97-99

STREET NAME

Old Pittwater Rd.

SUBURB/LOCALITY

Brookvale

REAL PROPERTY DESCRIPTION

LOT/PORTION SECTION/PARISH

DP/FP

No. 1.

512600

## 5 NOTES

49166

It is essential that a real property description be provided. Council may require the submission of a Certificate of Title or a recent survey where, in Council's opinion, the details provided by the applicant are incorrect or inadequate.

DP Deposited plan

FP File Plan

## Application

Check

## APPLICANT - BLOCK LETTERS

NAME: DESSAIX BROS. PTY. LTD.

POSTAL ADDRESS:

POST CODE

116 FARMERS FOREST RD.  
FARMERS FOREST

2086

PHONE - PRIVATE: 452-2259

BUSINESS (Office Hours):

Full name of person(s) or company making application.

Postal address for notices and correspondence.

Owner(s)  
of Land

Check

## OWNER(S) - BLOCK LETTERS

NAME: MAMAS, R. HALK.

POSTAL ADDRESS:

POST CODE

31 GORDON ST.  
CLONTARF

PHONE - PRIVATE: 94-2056

BUSINESS (Office Hours): 938-2400

Provide the full name(s) and postal address of the person(s), company, partnership or trust owning the land to which the application relates.

Not applicable if applicant is the owner.

## Builder

Check

## BUILDER - BLOCK LETTERS

NAME: DESSAIX BROS. PTY. LTD.

POSTAL ADDRESS:

POST CODE

116 FARMERS FOREST RD. (FARMERS FOREST)

2086

PHONE - PRIVATE: 452-2259

LIC. No. 3572

## Description

Check

## PROPOSED BUILDING

DESCRIPTION: REPAIR/REINFORCEMENT OF FIRE DAMAGE TO OFFICES

MATERIALS:

EXTERNAL WALLS: CONCRETE BLOCKS.

ROOF: METAL TRAY FLOORING.

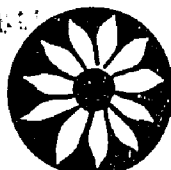
ROOF COLOUR: T/A/A

FENCES TO PUBLIC PLACE - HEIGHT -

MATERIALS -

FLOOR AREA

m<sup>2</sup>OF BUILDING OFFICE SECTION 348 m<sup>2</sup>



WARRINGAH SHIRE COUNCIL

## BUILDING APPLICATION

LOCAL GOVT. ACT 1919 & ORDINANCES

### PLEASE NOTE

Before completing this form, please read these notes and those on Pages 2, 3 & 4. Remember that if all the relevant information is supplied initially, delays in dealing with your application should be minimised. Complete all the clear boxes on the form, the shaded areas are for official use only.

### PLANS & SPECIFICATIONS

- Four sets of drawings and two sets of specifications to be submitted.
- Drawings to be legible and properly drawn on opaque paper in ink; do not use tracing paper or graphpaper or pencil.

Scales 1:200 minimum site plan  
1:100 minimum general plan; including floor plan, elevations, sections.

### SITE PLAN

A site plan must show, where relevant:

- The relation and dimensions of the proposed building and any existing buildings to all boundaries of allotment and street which it fronts and/or is bounded.
- The current use of existing building;
- Easements for drainage to sewer, natural watercourses or electricity;
- Position of overhead powerlines, particularly in respect of swimming pools;
- Provision of roofwater & drainage disposal;
- The position of building lines fixed by Council.

### GENERAL PLAN

Floor Plans must show layout of all floor levels, the use of all rooms and position of sanitary and drainage fittings. Room, wall thicknesses and overall dimension sizes are to be clearly shown.

Elevations — all elevations are required, existing ground level is to be nominated.

Sectional Elevation to show constructional details, dimensioned floor to ceiling heights, ground level and in the case of new buildings and major additions, reduced levels (RLs).

### ADDITIONS; AMENDMENTS; RESUBMISSIONS

The new work to be clearly distinguished by COLOURING from the existing (or of that previously submitted) ON ALL COPIES.

### VEHICULAR ACCESS

Details of access gradients to be shown (longitudinal section of driveway).

### CARPARKING

Positions of required carparking to be nominated and dimensioned.

### SWIMMING POOL

To show cross sectional elevations, with finished ground level and concourse level related to a fixed datum (not ground level). Position and type of safety fencing to be nominated, together with position of relevant doors/windows of adjoining buildings.

FOR FURTHER INFORMATION, HEALTH & BUILDING SURVEYORS MAY BE INTERVIEWED BETWEEN 8.30 & 10.00am DAILY, PHONE 982.0333, OR AT OTHER TIMES BY PRIOR ARRANGEMENT WITH THE HEALTH & BUILDING SURVEYOR DEALING WITH THE APPLICATION.



Deposit for Account at

**State Bank**State Bank of New South Wales  
CROWS NEST

DETAILS OF PERSON/COMPANY LIABLE TO PAY LEVY

SURNAME/COMPANY NAME *Mrs Susan PL* INITIALS

ADDRESS, No &amp; STREET

97/44 *W. Pittwater Rd Crows Nest*

TOWN/SUBURB

POSTCODE

2150

DATE

0743818

(Date Stamp)

6/4/92

DETAILS OF WORK TO WHICH PAYMENT RELATES

1. ADDRESS OF WORK, No &amp; STREET

97/44 *W. Pittwater Rd*

TOWN/SUBURB

Crows Nest

POSTCODE

2150

2. DESCRIPTION OF WORK (A &amp; B TO BE COMPLETED)

A. Tick one box if only to indicate

☐ Residential☐ Industrial☐ Civil☐ Engineering

B. Tick one box if only to indicate

☒ Alteration☐ New work☐ Addition☐ Extension

3. COUNCIL NAME (Complete only where plans have been lodged with Council)

BUILDING APPLICATION NUMBER

11137

4. DEPT./AUTH/OTHER (Complete only where plans not lodged with Council)

CONTRACT No. (if applicable)

OFFICE USE

5. ANTICIPATED WORK COMMENCEMENT DATE

1/1

6. ANTICIPATED WORK COMPLETION DATE

1/1

7. ESTIMATED COST OF WORK (Nearest \$)

\$170,000

8. LEVY AMOUNT DUE (Nearest \$)

\$170

NOTES

PAID IN BY (Signature)

*A. Day*

9. FIRST INSTALMENT AMOUNT (Nearest \$)

INSTALMENT APPROVAL CERTIFICATE NUMBER

NOTE: See instalment instructions prior to completion

CHQS

CHQUES

(See

Reverse)

**CREDIT**

LONG SERVICE PAYMENTS CORPORATION

BANK FEES

TELLER

TOTAL

\$170

-

LEVY No.

THIRD PARTY COPY

NOTE: This copy must be supplied to  
the Council to allow release of approved  
plans (if applicable)



## WARRINGAH SHIRE COUNCIL OFFICIAL RECEIPT

N.B. - Where payment is made by cheq. & this receipt is issued subject to cheque being cleared  
Valid only for the amount shown by cash register imprint.

RECEIPT NO. 153008544    DATE: 6/04/92

DUPLICATE

NAME: HALE IMPORTD P/L

TYPE	REFERENCE		
900 HALE 97-99 OLD PITTWATER	90892	CHQ	\$750.00
106 BLD INSURANCE FEE	HALE 97-99 OLD PITTWATE	CHQ	\$170.00
TOTAL			\$920.00

GENERAL MANAGER/  
ASHIRE CLERK    per .....

CIVIC CENTRE PITTWATER ROAD DEE WHY 2088. PHONE: 882 0333

All correspondence to be addressed to The General Manager, Shire Clerk



## WARRINGAH SHIRE COUNCIL OFFICIAL RECEIPT

N.B. - Where payment is made by cheque, this receipt is issued subject to cheque being cleared  
RECEIPT NO. 153007129<sup>old</sup> valid only for the amount shown by cash register imprint DATE: 19/03/92

DUPLICATE

NAME: DESSAIX BROS P/L

TYPE	REFERENCE	
100 BUILDING FEES	DESSAIX 97-99 OLD PITTM CHQ	\$450.00
101 KERB DAMAGE INSP.FEE	DESSAIX 97-99 OLD PITTM CHQ	\$20.00
		-----
TOTAL		\$470.00

ADJ GENERAL MANAGER/  
SHIRE CLERK per .....

CIVIC CENTRE PITTWATER ROAD DEE WHY 2099. PHONE: 882 0333  
All correspondence to be addressed to The General Manager, Shire Clerk.

**ESTIMATED COST:** \$ 170,000.00

The estimated cost of the proposed building is the total construction and ancillary services such as mechanical ventilation and fire service costs including all "on costs".

estimated  
cost

check

### SCHEDULE OF FEES FOR BUILDING APPLICATIONS

#### Estimated Cost

Up to \$5,000  
\$5,000 - \$100,000  
\$100,000 - \$250,000  
Exceeding \$250,000

#### Applicable Fee

First \$5,000 or part thereof 0.5%  
Next \$95,000 or part thereof 0.3%  
Next \$150,000 or part thereof 0.2%  
Amount over \$250,000 0.1%

If the estimated cost is under \$1,000 there is a minimum fee of \$5.00

#### Example of Calculation

##### Estimated Cost of Development

\$ 1,500  
\$127,000

##### Calculation

$1,500 \times 0.005 = \$ 7.50$   
 $5,000 \times 0.005 = \$ 25.00$   
 $95,000 \times 0.003 = \$ 285.00$   
 $27,000 \times 0.002 = \$ 54.00$   
127,000

##### Fee Payable

\$ 7.50  
  
  
  
  
  
  
  
  
  
\$364.00

#### Calculation

##### Estimated Cost of Development

\$

##### Calculation

First \$ 5,000 (or part thereof) \$ .....  $\times 0.005 = \$$   
Next \$ 95,000 (or part thereof) \$ .....  $\times 0.003 = \$$   
Next \$150,000 (or part thereof) \$ .....  $\times 0.002 = \$$   
Above \$250,000 \$ .....  $\times 0.001 = \$$   
Total : \$ ..... Amt. Payable

### BUILDING PERMIT RENEWAL

- Commercial, Industrial & Residential Flat Buildings — 10% of normal fee (min. \$25.00)
  - Dwellings — available upon inquiry to Council.
  - Amended plans — 25% of fee as per new applications
- \*cost' means contract price or, failing this, cost as determined by Council.

Office Use Only	Fee \$	Receipt No.	Date
100 Building	450.00	15300727	18.3.92
100 Amended Application			
105 Septic Tank			
101 Road/Kerb Inspection	20.00	✓	—
152 Road Levels			
153			
155 Road Opening Fee			
106 Builder's Lic. Prem.	N/A		
111 Long Service Levy	170.00	153005564	6-4-92
TF 031 Damage - Security Deposit	750.00	—	6-4-92

THE PROPOSAL MAY REQUIRE DEVELOPMENT CONSENT

- A — Has Development Application been submitted ? ☒ Yes/No  
Consent No.
- B — Has any previous correspondence been submitted to Council? ☒ Yes/No  
Reference No.

SUBMISSION OF BUILDING APPLICATIONS

- Lodgement of the application personally at the Health & Building Branch can save time.
- The submission of all the relevant information with the application will assist with the processing of the application. As Council has adopted a notification policy owners of premises in the immediate vicinity, which are considered to be affected by the proposal are notified and have the opportunity to submit comments. The consideration of any objections received may prolong the process. The submission of neighbours' comments with your application would assist.

PROCESSING OF THE BUILDING APPLICATIONS

- Applicants should not call about progress of the application until 4 weeks have elapsed from the date of lodgement.

**APPLICATION**

I/We the undersigned being the applicant(s) nominated in this application, seek approval of the attached plans and specifications for the erection of the described building.

I undertake to comply with the Local Government Act 1919 and Ordinances, especially Ordinances 70 (Building), 30 (Roads), 39 (Health), 44 (Closets, Cesspits), and all amendments thereto and the Rules and Conditions relating to buildings of the Council of the Shire of Warringham.

I/We have read the explanatory notes for completion of this application contained on the form and understand that if all the required details are not provided, the application may be subject to delay or be rejected as incomplete. I also understand that Council may request more information, or clarification.

State whether applicant is Owner/Builder/Architect/Structural Engineer or Managing Director/Manager/Secretary. Where a company is applicant, COMPANY STAMP OR SEAL to be affixed and to be signed by an authorised person of the company.

R. H. Davis  
SIGNATURE(s)  
OR AS APPLICABLE  
COMPANY STAMP OR SEAL

Director  
CAPACITY/AUTHORITY

19/3/92  
DATE

Applicants  
Signature

Check

P.T.O.



**SPECIAL NOTICE****Building Applications/Development Applications**

As of 1st January 1992, you are required to select under which Building Code you wish to have your application assessed.

Council cannot process applications using provisions of both Codes.

1. **ORDINANCE 70** - which is the existing Building Code

OR

2. **BUILDING CODE OF AUSTRALIA** - which commences on 1st January 1992.

Please indicate your choice with a tick (✓)

ORDINANCE 70	<input checked="checked" type="checkbox"/>
--------------	--

BUILDING CODE OF AUSTRALIA	<input type="checkbox"/>
----------------------------	--------------------------

~~OWNER/BUILDER/ARCHITECT~~

Signed: R. D. Mair Date: 19/1/92

**NOTE:** This form must be attached to your Building Application/  
Development Application.

COMMERCIAL/INDUSTRIAL BUILDINGS

Description: *Restoration of Fire Damage*

PREMISES: *97-99 OLD PITTSWATER RD  
BROOKVALE*

CLASS: *V, VII*

FIRE ZONE: *P*

OWNER: *HALE IMPORTS P/L*

RISE OF STOREYS: *2*

BUILDER: *DESSAIX*

CONST. REQUIRED: *2*

ZONING: LAND USE CONSENT NO:

ISSUED:

TOWN PLANNING COMMENTS: *N/A*

ENVIRONMENTAL-FOOD, POLLUTION, NOISE:

SHIRE ENGINEERS COMMENTS:

BUILDING LINES:

CARPARKING:

TREE P.O:

ESSENTIAL SERVICES:

STORMWATER:

NOTIFICATION:

COMMENTS:

*N/A. Discussed with David Story 11/4/92. As it  
only restoration of fire damage with no change  
in external appearance, no need to notify.*

*Approval recommended as attached.*

OUTSTANDING FEES

SEC. 94:

BOND:

ADD FEE:

PICK UP:

POST:

BLB:

LSL:

ENG/SEC DEP:

READY DATE:

*of 11  
A. Capones  
11/4/92*

*19/3/92*



### 1.9 LAND unfit FOR BUILDING.

Where land is low-lying or drainage channels exist and otherwise is, or likely to be, unfit for building purposes, it shall be the legal obligation of owners to satisfy themselves as to such Public Health Proclamations thereon as provided by Section 15, Public Health Act, or the provision of Ordinance 70 Part 4 Local Government Act.

### 1.10 NOISE NUISANCE FROM BUILDING OPERATIONS.

That in exercise of its powers under Section 289(d) of the Local Government Act 1919 (as amended) the Council of the Shire of Warringham hereby controls and regulates noise in or near any public place within the said Shire as follows:—

1. The demolition of any building on any land in or near any public place (which includes a public road) is restricted to the hours of 7 a.m. to 5 p.m. on Saturdays and is prohibited on Sundays, public holidays, Christmas Day and Good Friday.
2. The use on land in or near any public place (which includes a public road) of the following specified items of plant, namely: compressors, bulldozers, power-operated concrete mixers and/or concrete delivery wagons, hoists, winches and welding and strutting plant is restricted to the hours of 7 a.m. to 5 p.m. on Saturdays to Fridays, inclusive and 7 a.m. to 1 p.m. on Sundays and is prohibited on Sundays, public holidays, Christmas Day and Good Friday.

### 1.11 TREE PRESERVATION.

Warringham Shire Council made a General Tree Preservation Order on 16th March, 1969, which was notified in Government Gazette No. 48—page 1672—18/4/1969, which states:—

"Notice is hereby given that under the provisions of clause 44 (as amended) of the Shire of Warringham Town Planning Ordinance, Warringham Shire Council has, by resolution dated 16th March, 1969, made a General Tree Preservation Order to apply to all lands within the boundaries of the Shire of Warringham. This order prohibits the felling, cutting down, topping, topping, removing, lopping or wilful destruction of any tree or trees specified in such order except with the consent of the responsible authority and any such consent may be given subject to such conditions as the responsible authority may think fit. The responsible authority is the Council of the Shire of Warringham."

The Council has defined a "Tree" as:—

"All species of trees having a height of more than 3 m or a branch spread exceeding 3 m in diameter.

1.12 EXISTING VEHICULAR CROSSINGS.  
Redundant vehicular lay backs are to be replaced with kerb and guttering to the requirements of the Engineer's Department.

## DESIGN REQUIREMENTS

### 2.0 ERECTION OF FENCES OR BUILDINGS ADJACENT TO STREET ALIGNMENTS.

All walls and fences shall be clearly shown on plans and their dimensions and materials clearly specified. The correct street levels shall be ascertained from the Shire Engineer or, where appropriate, the Department of Main Roads, before the erection of any structure, such as garages, fences, enclosures, etc., adjacent to street boundaries, and these levels shall be strictly observed. All fences on street alignments, especially on corner allotment and within streeted but un-<sup>2</sup>g lanes, shall be of a design to the satisfaction of Council, and no construction the District Health and Building Inspector before commencing any work in connection with such fences.

### 2.1 PLUMBING AND DRAINAGE.

(a) Sanitary plumbing and drainage shall be in accordance with the By-Laws of the Metropolitan Water, Sewerage and Drainage Board and be carried out only by persons licensed in that regard. A certificate from the Water Board relating to the inspection and occupancy of the building, in connection with the drainage, shall be produced to Council before the work is carried out to the Health and Building Inspector's direction and Council's satisfaction.

(b) All roof waters must be carried out to the street table drain (or other Council's drain) with the Shire Engineer's permission by means of stormwater drainpipes and where this is not practicable on account of fall, to be carried clear of all footings to Council's satisfaction.

#### 2.1 OTHER PARKING.

Provision is to be made for:

2.1.1 Adequate motor garage accommodation behind the resolved building line.

2.1.2 The subsequent addition of garage accommodation without encroaching into the resolved building line, or

2.1.3 Sufficient space (min. 2.5 m) on the side boundary for vehicular access to the rear of the plotment.

#### 2.2 BUILDING LINES.

Building lines pursuant to the provisions of Section 308 of the Local Government Act and the Town Planning Scheme (Ordinance) have been set for all streets and most footpaths within the Shire. Details of such are available upon request from the officers of the Health and Building Department.

#### 2.3 "LAND RISE" AREAS.

Certain steeply sloping areas of the Shire have a history of slip movement. Details of these areas and Council's arrangements are available upon request from the officers of the Health and Building Department.

#### 2.4 BASEMENTS.

Details and position of Council (and other) basements, water courses, etc., must be clearly indicated on the Building Application. Council will not under normal circumstances permit the construction of a building over a Council basement.

#### 2.5 INTERNAL STAIRS.

2.5.1 Two storey dwellings, or additions to existing dwellings to provide additional floors, must be provided with an internal staircase giving direct and ready access between the floors.

2.5.2 Internal stairs are to comply with the following dimensions:

2.5.2.1 Straight flights with minimum 818 mm, head height minimum 2030 mm, tread minimum 250 mm, riser maximum 190 mm.

2.5.2.2 Spiral flights diameter minimum 1800 mm, head height minimum 2030 mm, riser maximum 190 mm.

#### 2.6 FORESHORE SCENE PROTECTION AREAS.

In the above and similar scenic areas roofs of carports/garages within a resolved building line must not exceed 1 m in height above the crown of the road directly in line therewith.

#### 2.7 LAUNDRY DIMENSIONS.

Laundries are to comply with the following minimum dimensions. Width 1200 mm, area 2.8 m<sup>2</sup>.

#### 2.8

#### MATERIALS AND STRUCTURES

##### 2.8 CORRUGATED GALVANISED IRON--RESTRICTION ON USE.

The use of corrugated galvanised iron as a building material is permitted only in areas zoned as non-suburban where its use is further restricted to outbuildings and reroofs subject to the material being down screwed down with screws and washers, sides and legs being painted before fixing, and the finished roof being painted to the satisfaction of Council.

##### 2.9 SECOND-HAND MATERIALS.

Unless previously inspected and approved by the Health and Building Inspector shall be prohibited.

#### 2.10 FOOTINGS.

The following empirical dimensions will, subject to the Health and Building Inspector's confirmation in each individual case, be deemed to comply with the provisions of Part 31 Ordinance 76.

2.10.1 Brick Footings. Concrete footings under 230 mm and 280 mm brick walls shall be a minimum of 358 mm x 254 mm and under 114 mm and 76 mm walls, 315 mm x 230 mm.

2.10.2 Brick Veneer Construction.

(a) Brick footings two courses of 457 mm and one course of 355 mm.

(b) Concrete footings 457 mm wide x 254 mm deep. Vermin proof wire to be built into brickwork at floor level.

2.10.3 Timber Framed Buildings.

(i) Brick footings under 114 mm walls up to 1500 mm high two courses of 230 mm. Over 1500 mm high one course of 355 mm and two courses of 230 mm. Maintain similar offsets beyond faces of walls exceeding 184 mm in thickness.

(ii) Concrete footings under 114 mm walls up to 1500 mm high to be 230 mm wide and 152 mm deep and where over 1500 mm high 355 mm wide and two courses of 230 mm. For each additional 115 mm thickness of walls add 152 mm to the width of the footing.

(iii) All timber framed buildings shall have brick stone or concrete foundation walls throughout the front of the building with returns on the sides at least 1800 mm.



### 3.3.4 Generally,

Steeper piers to be 330 mm x 230 mm for the top 1500 mm of the pier, the additional lower portion to be 333 mm x 333 mm.

Concrete footings are to be composed of four (4) parts of 19 mm blue metal two (2) parts clean well graded sand and one (1) part Portland cement, or alternatively minimum 20 MPa ready mixed, and are to be reinforced in accordance with the following scale, unless otherwise permitted, e.g. Trench mesh or other female steel rods with 38 mm top/bottom cover.

### 3.4 REINFORCING SCALE.

Footings Dimensions	Reinforcing Steel	Footings Dimensions	Reinforcing Steel
338 mm x 234 mm	6 x 12 mm rods or 10 x 9 mm rods 4 x 9 mm rods	333 mm x 203 mm	4 x 9 mm rods or 4 x 12 mm M/S rods or 6 x 9 mm M/S rods and 6 mm diam. M/S stirrups at 300 mm centres, or 2 layers (No. 7 mesh (SAA A84 No. 307) with 6 mm diam. M/S stirrups at 150 mm centres.
230 mm x 132 mm		457 mm x 254 mm	

Pier and beam and deep beam footings where used shall be subject to Structural Engineer's details.

### 3.5 MORTAR SELECTION.

The compressive strength of the mortar shall not be greater than is necessary in any application, and in no case shall it be greater than that of the bricks with which it is used.

### MORTAR APPLICATIONS

Mortar Type <sup>a</sup>	Applications	
	General	In regions liable to severe frost
1 : 1 : 1 1 : 1 : 1 1 : 1 : 1	Highly stressed engineering applications	Suitable
1 : 1 : 1 1 : 1 : 1 1 : 1 : 1	General purpose	Suitable
1 : 1 : 1 1 : 1 : 1 1 : 1 : 1	General purpose, but only above a damp proof course	Suitable except in very severe conditions of frost
1 : 1 : 1 1 : 1 : 1 1 : 1 : 1	Exterior use or work sheltered from severe exposure, but only above a damp proof course	Unsuitable except when protected by frost-resistant pointing

<sup>a</sup>The mortar type indicates the nominal proportions by volume of the constituents in the order Portland cement : hydrated lime or lime putty : fine aggregate.

### 3.6 OPENINGS IN BRICKWORK.

The following empirical dimensions will be deemed to comply with the provisions of Part 40 (Ordinance 70).

Opening in brick walls shall be supported by bars or angles with at least 114 mm bearing at each end in accordance with the following scale:

Span	External Walls	Internal Walls
Up to 1200 mm	One 76 mm x 9 mm bar	One 76 mm x 9 mm bar
1200 mm to 1500 mm	One 75 mm x 76 mm x 9 mm angle	One 76 mm x 51 mm x 9 mm angle
1500 mm to 2440 mm	One 101 mm x 76 mm x 9 mm angle	Two 64 mm x 51 mm x 9 mm angles
2440 mm to 3030 mm	One 132 mm x 89 mm x 9 mm angle	Two 89 mm x 64 mm x 9 mm angles

All steel or wrought iron is to be protected against corrosion and where exposed to sea air conditions is to be galvanized or treated with approved alternative; properly designed reinforced or pre-stressed concrete lintels will be permitted.

### 3.7 TIMBER STRUCTURES.

Timber members and structures are to comply with the provisions of Australian Standard 1684 1975 "SAA Light Timber Framing Code".

## CONDITIONS OF BUILDING APPROVAL

## ESSENTIAL SERVICES

1. The following essential services must be designed and installed in accordance with the provisions of Ordinance 70 and must be maintained in an effective working condition:-
  1. Access panels (as required by Clause 22.12).
  2. Automatic sprinkler systems (as required by Clause 19.2, 19.4, 22.4, 23.1, 24.12, 27.4, 55.17 or 60.3).
  3. Drencher systems (as required by Clause 22.4 or 23.1).
  4. Emergency lifts (as required by Clause 55.9).
  5. Emergency lighting (as required by Clause 55.12).
  6. Emergency power supply (as required by Clause 55.15).
  7. Emergency warning and intercommunication systems (as required by Clause 55.16 or 60.10).
  8. Exit signs (as required by Clause 24.29).
  9. Fire alarm systems (as required by Clause 27.4).
  10. Fire dampers (as required by Clause 22.13).
  11. Fire doors (as required by Clause 22.4, 22.6, 22.7, 22.8, 22.9, 22.10, 22.11, 22.12, 23.1, 23.6, 24.11, 55.5.1 or 60.4).
  12. Fire mains (as required by Clause 27.1).
  13. Fire shutters (as required by Clause 22.4, 22.6, 23.1 or 24.11).
  14. Fire windows (as required by Clause 22.4, 23.1 or 24.11).
  15. Hose reels (as required by Clause 27.2).
  16. Hydrants (as required by Clause 27.3).
  17. Mechanical smoke exhaust systems (as required by Clause 60.9).
  18. Mechanical ventilation and air conditioning systems (as required by Clause 50.12 or 55.7).
  19. Non-combustible roller shutters (as required by Clause 22.16).
  20. Portable fire extinguishers (as required by Clause 27.4.1).
  21. Pressurising systems (as required by Clause 55.8).
  22. Smoke doors (as required by Clause 21.3).
  23. Solid core doors (as required 22.9, 22.10 or 22.16).
  24. Vents (as required by Clause 19.3, 19.4, 19.7 or 60.8).
2. The submission to Council of a certificate of compliance in respect to the design and installation of each listed essential service in accordance with form 6, Part 59 of Ordinance 70 before occupation of the building.
3. The submission to Council annually of a certificate of compliance in respect that each essential service is maintained at a standard not less than that to which it was originally designed and installed.

MAIN CONDITIONS: ESS1, ESS2, ESS3,

SUB CONDITIONS: 1, 2, 3, 4, etc from Nos 1-24 - PF13 to exit from sub conditions.

HEALTH & BUILDING SPECIAL CONDITIONS OF APPROVAL - COMMERCIAL

- HC1 Submission from a Council approved structural engineer before work commences of details of all footings, columns, beams, fire rated lintels, floors, concrete walls, stairs, portal frames, roof trusses, such details to include:
- method of waterproofing, (i) habitable floors at ground level; (ii) floors and balconies where cavity of external wall is bridged.
- NB. Structural details to comply to AS 1480-1974.
- HC2 Compliance with notation in red on face of plans.
- HC3 Compliance with:-  
(a) Sydney County Council Electricity Supply requirements;  
(b) Telecom cabling requirements.
- HC4 Your attention is directed to the need to seek advice of your obligations under the Factories Shops and Industries Act from the Department of Industrial Relations.
- HC5 Compliance with the requirements of the State Pollution Control Commission.
- HC6 Artificial lighting being provided to the \*\*\* area in accordance with Department of Industrial Relations.
- HC7 Compliance with the requirements of the Trade Waste Section of the Water Board prior to connection to the sewer.
- HC8 No work commencing on the building site until septic tank application has been approved.
- HC9 The provision of a ceiling to the \*\*\* with a resistance to the incipient spread of fire of one hour as determined by the Standard Fire Test and forty eight (48) hours notice be given to Council's Building Surveyor, Birdwire being fixed to the top plate or top course of brickwork of internal and external walls and drawn taut to a minimum of two courses of brickwork below ceiling level and cement render over before installation of vermiculite fillet and cornice.
- HC10 The provision of a fire isolated passageway enclosed by walls, flooring and ceiling of non-combustible construction (concrete or masonry) - having a fire resistance rating of not less than one hour. Doors leading into this fire isolated passageway from within the building being self-closing one hour fire doors.
- HC11 Provision of a self-closing door and jamb, with a rating of one hour to the \*\*\*. Note - door and jamb being tagged.
- HC12 All concrete external wall panels, their connectors and supports being provided with a 4 hour fire resistance rating. Details being submitted to Council and approval obtained before work on same is commenced.
- HC12A The building being constructed in Type <sup>2</sup> \*\*\* construction.

HEALTH & BUILDING SPECIAL CONDITIONS OF APPROVAL - COMMERCIAL (CONT)

- HC14 The windows/doors in the ~~\*\*\*~~ walls being protected in accordance with the provisions of Part 22.4(2) of Ordinance 70. Details being submitted for approval prior to work commencing.
- HC15 The switch-plant room to be fire isolated from the rest of the building with floors, walls, ceilings and door having a minimum fire resistance rating of 2 hours. Details being submitted for approval.
- HC15A The internal electrical substation being provided with enclosing walls with a 3 hour fire resistance rating, including the entry door.
- HC15B Provide spandrels between the storeys in accordance with the provisions of Clause 22.3 of Ordinance 70.
- HC16 Steel columns having a fire rating of ~~\*\*\*~~ hours.
- HC17 Recessed balconies being sealed with 6mm superlux where a 13mm ceiling is required and 12mm superlux where a 1 hour fire rated ceiling is required.
- HC18 Entrance to all flats being fitted with 1 hour fire rated doors, jams and closers. Such being permanently labelled by the manufacturers to Council's satisfaction. NOTE: Concrete or masonry thresholds must be provided having maximum clearance 6.5mm under doors.
- HC19 Provide self-closing 35mm solid core door to ~~\*\*\*~~.
- HC20 Provide walls to ventilation, garbage, etc, shafts with a minimum fire resistance rating of ~~\*\*\*~~ hours.
- HC21 Provide concrete lintels with a ~~\*\*\*~~ hour fire rating to openings exceeding 1.8m if in a loadbearing wall and 3m if in a non-loadbearing wall.
- HC22 External arch bars being hot dipped galvanised.
- HC23 Vent stacks being encased with 1 hour fire rated sleeve through roof space.
- HC24 The internal plumbing services being metal. This includes stormwater downpipes.
- HC25 The external door opening inwards being capable of being kept in an open position in accordance with Cl. 24.20(5) of Ordinance 70.
- HC26 External doors being capable of being opened without recourse to a key from the inside during normal working hours.
- HC26B The exit doors being readily openable without a key and by means of a single hand action on a single device which is located between 900mm and 1200mm above the floor and does not comprise a bolt or a padlock or a separately operated deadlock from the side that would face any person seeking egress from the building.

HEALTH & BUILDING SPECIAL CONDITIONS OF APPROVAL - COMMERCIAL (CONT)

- HC27 Details of type of proposed egress doors (mechanical or manual) being submitted for approval.
- HC28 The sliding door, if power operated, being constructed so that in the event of malfunction or failure of the power source it may be opened manually under a force of not more than 110 N.
- HC29 Any ramps or stairs with 5 or more risers being provided with a continuous handrail.
- HC30 The stair being a minimum 1 metre between handrail and wall.
- HC31 All exit paths, doorways, stairways, fire isolated passageways and other means of egress being unencumbered and left clear for use by the occupants of the building at all times.
- HC32 A minimum unobstructed vertical clearance of 2.3m being provided from finished floor surface to underside of beams, mechanical ventilation system, ductwork, etc. to the carparking area.
- HC33 Provide exit signs to the building. Details of signs and illumination being submitted to Council and approval obtained before work is commenced.
- HC34 Provide a notice in a conspicuous position at the landing on each storey level of the fire isolated stairway and such notice to comply with Part 24.14(3) of Ordinance 70.
- HC34A Each fire isolated stairway being provided with artificial lighting in accordance with Clause 50.5 of Ordinance 70.
- HC34B The top of the fire isolated stairways being provided with a \*\*\* hour fire resistance rating.
- HC35 Exit signs in Assembly Hall being provided in accordance with Part 24.29 of Ordinance 70.
- HC36 The submission of an exit sign system for the entire building before work commences. This submission is to show exit signs and direction of egress at each change of direction in the path of travel to the exit and the letters comprising the exit sign are to comply with the provisions of Part 24.29 and Table 24.29.
- HC37 The \*\*\* steel beams supporting the roof/floor being encased to attain a minimum \*\*\* hour fire resistance rating. Details of method being submitted to Council prior to installation of steelwork.
- ✓ HC38 Glazing being provided in accordance with Clause 53.4 of Ordinance 70.
- HC39 All external concrete masonry walls being painted and waterproofed with a cement based paint.
- HC40 Provision of garbage receptacle storage facilities and paved pick-up areas positioned to Council's satisfaction - details of which are to be submitted for approval.



HEALTH & BUILDING SPECIAL CONDITIONS OF APPROVAL - COMMERCIAL (CONT)

- HC41 The submission of a report from the NSW Fire Brigades covering accessibility and suitability of hydrants and fire mains in accordance with Clause 27.3(5) of Ordinance 70 prior to installation.
- HC42 The fire hose reels being constructed and installed in accordance with Specification No. 10 "Fire mains, certain water service pipes, hydrants, hose reels and water supply". All hoses having a minimum internal diameter of 20mm and a maximum length of 36m.
- HC43 The provision of additional hose reels - hydrants in the building as shown in red on the plans.
- HC44 The nozzle of the fully extended hose reel to extend to all parts of the floor area within the storey.
- HC45 Provision of an emergency lighting system throughout the building to comply with the requirements of Part 55.12 (4), (5) and (6). Details to be submitted, approval obtained and work effected before building is occupied.
- HC46 The provision of a wet chemical fire extinguisher to the kitchen.
- HC47 The provision of a 3.5/5.5kg CO<sub>2</sub> fire extinguisher to the ~~store~~ room within 1.5m from the main electrical switchroom, within 3m of plant rooms and lift shaft roof and adjacent to all hose reels, in accordance with Clause 27.4.1 of Ordinance 70.
- HC48 The installation of a fire blanket to the kitchen area.
- HC49 All portable fire extinguishers being installed in accordance with AS 1851-1976.
- HC50 The provision of a report from the NSW Fire Brigades relating to design of hose reels to comply with the provisions of CL. 27.2(6) of Ordinance 70 prior to installation.
- HC51 The sprinkler/drencher system being constructed in accordance with the provisions of Australian Standard 2118.
- HC51A Provide in conjunction with the sprinkler system, an approved alarm signal device to the NSW Fire Brigades requirements, in accordance with the provisions of Clause 27.4(7) of Ordinance 70.
- HC51B Provision of a notice specifying the requirements of Clause 27.4(8) of Ordinance 70, in respect of the sprinkler alarm signal device.
- HC52 Submission to Council of a certificate from a licenced plumber that the fire hose reels/hydrants/fire mains have been installed in accordance with Specification No.10 and those plans submitted to, and certified by, the NSW Fire Brigades.
- HC52A Provide an early warning smoke and heat detection system throughout the building.
- HC53 Exit doors to be fitted with panic bolts and to open in the direction of egress from the building.

HEALTH & BUILDING SPECIAL CONDITIONS OF APPROVAL - COMMERCIAL (CONT)

- HC54 The under stage area not being used for storage purposes.
- HC55 Provide fire hose reels or 9 litre water type portable fire extinguishers during construction, in accordance with the provisions of Clause 12.2 of Ordinance 70.
- ✓ HC56 All rooms in the building being ventilated in accordance with the provisions of Ordinance 70.
- HC57 Submit to Council of full details of all mechanical ventilation systems on a separate Building Application, and approval being obtained before work is commenced.
- HC58 All external walls being of face brickwork, properly cleaned down upon completion. Details of type of face bricks and roofing tiles being submitted to Council for approval prior to construction commencing on site.
- HC59 Lift call panels, indicator panels and other panels in the walls of fire isolated lift shafts shall, if they exceed 32,500 sq.mm in area, be backed by construction having a fire resistance rating of not less than one hour, in accordance with the provisions of Clause 22.8(2) of Ordinance 70.
- HC60 The top of the lift shaft being ventilated to the outside air by unobstructed openings having an aggregate area of not less than 10% of the cross sectional area of the shaft, in accordance with the provisions of Clause 55.10(1) of Ordinance 70.
- HC60A All stormwater lines being a minimum of 150mm Diameter.
- HC60B Translucent roof sheeting to comply to Clause 16.19 of Ordinance 70.
- HC61 The provision of a warning sign conforming with the details and dimensions of Part 55.11 of Ordinance 70 in a conspicuous position near every call button for the lift.
- HC62 External doorways to lift shafts being one hour fire doors that comply with the provisions of the Australian Standard CA3 Lift Code, relating to fire rated lift landing doors which are to be set to remain in the closed position at all times except when they are required to be open for the reception or discharge of passengers, goods or vehicles.
- HC63 The lift shaft installer submitting to Council a certificate certifying the installation of lift doors in accordance with the provisions of Clause 21.7 of Ordinance 70.
- HC64 Plans and details of all fittings pertaining to the layout of premises used for the manufacture, preparation or serving of food including cupboard fixtures fittings, insect protection, etc. being submitted prior to installation.
- HC65 Balustrades being securely fixed by means of flexible ties to main wall of building.

HEALTH & BUILDING SPECIAL CONDITIONS OF APPROVAL - COMMERCIAL (CONT)

- HC66 Balustrades to balconies being a minimum of 860mm high.
- ✓ HC67 Metal tray sheeting/roofing being permanently coloured such as "Colorbond" or similar.
- HC68 Any windows the head of which exceeds 6.5m above ground level being capable of being cleaned in accordance with Clause 53.8 of Ordinance 70.
- HC69 Car crash barriers being provided to the rooftop carpark. Details as to the type of barrier and method of fixing and installation to be submitted to Council for approval prior to installation.
- HC70 Provision of control joints in external leaf of brick walls at maximum 24.38m centres.
- HC71 The submission of full and comprehensive detail of industrial and garbage waste storage facilities including necessary trade waste bin positions and compacting units. This trade waste bin is to be located wholly within the external walls of the building and readily accessible by vehicles for removal or located within a paved area suitably screened by landscaping behind the building alignment and readily accessible to trucks servicing the bin.
- HC72 Footpath and roadway being kept free of obstruction by building materials and plant. All concrete trucks, pumps and/or agitators being kept wholly within the building site. No concrete or slurry being discharged onto Council's street surfaces.
- HC73 Excavation or filling adjacent to adjoining premises being retained and finished to Council's satisfaction.
- HC74 Drainage lines not being backfilled prior to Council's inspection.
- HC75 Provision of a hoarding to the frontage of the property. A separate application to be made to Council's Shire Engineer's Department for this purpose. This hoarding is to be erected before any work is commenced on site.
- HC76 The carparking spaces being in accordance with Council's policy dated 19/4/86.
- HC77 All car spaces being linemarked and numbered with yellow paving paint.
- HC78 Driveways and turning areas being concrete paved and surface treated to Council's satisfaction.

STRONG ROOM CONDITIONS

- HC79 The installation of an internal lighting system in the strongroom controllable only from within the room.
- HC80 The installation of a pilot light located outside the strongroom but controllable only by a switch for the internal lighting referred to in the above condition.

HEALTH & BUILDING SPECIAL CONDITIONS OF APPROVAL - COMMERCIAL (CONT)

- HC81 The installation of an approved alarm device located outside the strongroom but controllable only from within the room.
- HC82 (a) Emergency ventilation being provided to the strongroom by means of at least two ducts, tubes and other similar fittings with openings, one at or near the ceiling level and one at or near floor level and located in a position of easy access at all times.
- (b) For the purpose of security, emergency ventilation openings may be protected by capstan type caps or other devices which shall be capable of easy removal by hand from within the room.
- (c) A notice, suitably worded, shall be displayed in a conspicuous position adjacent to the emergency ventilation openings providing instructions for the operation of such ventilation.
- HC83 The cool room being provided with a door which can at all times be opened from inside without a key and an approved alarm device located outside but controllable only from within the chamber.
- HC84 The door width of the cool room being at least 600mm.

FLATS

- HC85 Provision of ~~two~~ clothes lines.
- HC86 Laundry floors being graded and drained to trapped floor wastes.
- HC86A The floor between the flats being proceeded with a sound transmission class of 45 in accordance with the provisions of table 52.9 of ordinance 70 and a ceiling of 13mm firegrade plasterboard or similar complying with clause 16.12 of Ordinance 70.
- HC86B The walls between the flats being provided with a sound transmission class of 45 in accordance with the provisions of table 52.9 of Ordinance 70 and extended to the underside of the roof covering or ceilings of 13mm firegrade plasterboard or similar in accordance with clause 16.12 of Ordinance 70.
- HC87 Provision of wash handbasin in shower rooms.
- HC88 Service pipes being concealed in accessible ductwork sound attenuated in accordance with part 52 Ordinance 70.
- HC89 Any changes of levels at boundaries being retained to Council's satisfaction.
- HC90 Advertising signs not approved herewith. A separate application in accordance with Ordinance 55 requirements being submitted for any signs on the building.
- HC90a Street number being affixed to building prior to occupation.
- HC91 Submission of a survey certificate on commencement of external walls.

HEALTH & BUILDING SPECIAL CONDITIONS OF APPROVAL - COMMERCIAL (CONT)

- HC92 Provision of 48 hours notice to the Building Surveyor of the installation of fire rated ceilings.
- HC93 All allotments constituting the development covered by this building approval being legally consolidated prior to (occupation of the approved building) (release of plans).
- HC94 This approval does not prejudice any action Council may take in respect of the upgrading of the building pursuant to the provisions of Section 317D of the Local Government Act, 1919, as amended.
- HC95 Submission of the following at completion of construction:
- (a) Structural Engineer's Certificate from a Council approved structural engineer covering
    - (i) supervision of all structural work contained in the Structural Engineer's details, and
    - (ii) structural adequacy of the building;
  - (b) Sanitary plumbing and drainage certificates from a licenced plumber and drainer.
  - (c) Survey report.
- HC96 The terms and conditions of Development Consent No. ~~1111~~, dated ~~1111~~, being strictly complied with.
- HC97 Submission to Council of details of all internal partitioning and storage layouts, and approval obtained before work on same commences.

SPECIAL CONDITIONS OF APPROVAL

- HC98 A formal application being submitted to the State Pollution Control Commission to cause the premises to be scheduled under the provisions of the Noise Control Act and complying with any conditions of approval imposed by the Commission in regard to this scheduling.
- HC99 All materials used in the building to comply with the provisions of Part 16.19 of Ordinance 70. A full schedule of all materials being used to be submitted and approval obtained before fitting out commences and such schedule to include the spread of flame and smoke developed index.
- HC100 NOTE: Clause 31.4 of Ordinance 70 requires, inter alia, that the person causing the excavation shall at his own expense preserve and protect the adjoining building from damage and as necessary underpin and support such building in an approved manner.
- Such person shall, seven days before excavation, notify his intention to the adjoining owner and shall at the same time furnish to such owner particulars of the work proposed to be done.
- HC101 A survey certificate being submitted to Council showing ground floor slab level in relation to the reduced levels as shown on approved plans prior to the slab being poured.



HEALTH & BUILDING SPECIAL CONDITIONS OF APPROVAL - COMMERCIAL (CONT)

- HC102 A false ceiling comprising of two layers of 10mm plasterboard constructed strictly in accordance with the provisions of part 52 of Ordinance 70 being installed to the underside of the bathroom and laundry floors so as to provide sound attenuation to the soil and waste pipes.
- HC103 Upon completion of the automatic sprinkler system/automatic drenchers, a completion certificate in the form prescribed in AS 2118-1978 "Code for Automatic Sprinkler Systems" being submitted to Council.
- HC104 No combustible materials being attached to the external walls of the building.
- HC105 A ~~new~~ hour fire resistance masonry wall being constructed between units ~~units~~.  
NOT to timber or steel purlins to cross or to be supported on the wall.
- HC106 Access water closets, showers, stairways, lifts where required and carparking for the disabled in accordance with the provisions of Specification 9 of Ordinance 70. Details being submitted for approval.
- HC106B Handrails being provided to both sides of the stairs in accordance with clause 6 of specification 9 of Ordinance 70.
- HC107 Upon completion of the work contained in this building approval an application for a 317AE Building Certificate should be lodged with Council.
- HC108 NOTE: The stamping of this plan is not, nor does it purport to be, in relation to work already executed, a building approval pursuant to the provisions of Section 311 of the Local Government Act but is for the purpose of recording work 'as built' for the determination of any future Section 317AE (Building Certificate) and/or Clause 3.3 Ordinance 70 (Building Occupation) application.
- ✓ HC109 The development to which this approval relates being completed within 12 months from the date of establishment of substantial commencement.

.....  
SENIOR BUILDING SURVEYOR

P.HC109 ALWAYS ENTERED AFTER ALL OTHER CONDITIONS

- HD23 The construction of all timber members being in accordance with the provisions of Part 41 of Ordinance 70, ie A.S. 1684 "Timber Framing Code".
- HD25 Top of slab being a minimum of 300mm above the adjacent finished ground level with a 75mm step to enable suitable flashing and drainage.
- HD37 Driveway gradient within the private property not exceeding a maximum ratio of 1:4 with transient slopes of 1.5 metres at a grade not steeper than 1:10. Access levels across road reserve to comply with Council Engineers Department's requirements.

HEALTH & BUILDING SPECIAL CONDITIONS OF APPROVAL - COMMERCIAL (CONT)

- HC110 All liquid wastes from the forecourt and service bay areas being directed to a collection pit with disposal by means of a tanker, in accordance with the provisions of the requirements of the State Pollution Control Commission. Details being submitted with the building application.
- HC111 Building not being occupied until a Certificate of Classification has been issued pursuant to Clause 6.2.1 of Ordinance 70.
1. Mechanical ventilation conditions of approval. See condition of approval sheet attached.
  2. Noise inspector's conditions of approval. See memo dated ..... attached.
  3. Garbage inspector's conditions of approval. See memo dated ..... attached.
  4. Food inspector's conditions of approval. See memo dated ..... attached.
  5. Town Planning Branch's conditions of approval. See memo dated ..... attached.
  6. Engineer's Department conditions of approval. See memo dated ..... attached.
  7. Board of Fire Commissioner's conditions of approval. See memo dated ..... attached.
- HC112 The hours of construction and/or work being restricted to Monday to Friday, 7am to 5pm, Saturday 7am to 1pm, no work on Sunday and Public Holidays, where the construction or work in the opinion of Council interferes with the amenity of the neighbourhood by the emission of noise, chemical or physical pollutants or otherwise. In respect of noise, the L10 level (average maximum noise levels) measured over a period of 15 minutes when the construction site is in operation must not exceed background noise level by more than 10dB(A)".
- HC113 Hours of construction being restricted to Monday to Friday, 7am to 5pm, Saturday 7am to 1pm (if audible at residential premises 8am to 1pm). Internal building work may be carried out at any time outside the restricted hours subject to noise emission from the building not being audible at any adjoining boundary.

# HALE IMPORTS PTY LTD

ACN 001 703 448

Head Office and Showroom  
97-99 Old Pittwater Road,  
Brookvale N.S.W. 2100  
Australia  
Phone: (02) 938 2400  
Fax: (02) 939 7462

31st March, 1992.

Mr. Andy Caponis,  
Warringah Shire Council,  
Civic Centre,  
DEE WHY. NSW. 2099.

Dear Sir,

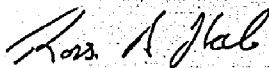
re: BUILDING APPLICATION, 97-99 OLD PITTWATER ROAD, BROOKVALE - HALE IMPORTS

We refer to the recent fire at the above premises and subsequent lodgement of building plans at your office to have the premises re-built.

The purpose of this letter is to request that these plans be approved as quickly as possible as the Company is operating under very difficult conditions in a temporary facility and, regrettably, may be forced into retrenching staff in the near future to alleviate the hardship we are enduring.

Obviously we wish to avoid this situation and would appreciate you giving this matter your urgent consideration.

Yours faithfully,  
HALE IMPORTS PTY. LTD.



ROSS HALE  
Director

# MAUNCHEST PTY. LTD.

BUILDING & DEVELOPMENT CONSULTANT A.C.N. 002 622 473

UNIT 203, 221 BEN BOYD RD  
NEUTRAL BAY N.S.W. 2088  
AUSTRALIA  
FAX: (02) 908 2036  
MOBILE: 018 23 3527  
TEL: (02) 953 8246

## SHIRE OF WARRINGAH

Application No. 119/92  
APPROVED, SUBJECT TO:-

1. Work generally being in accordance with Ordinance 70 Local Government Act, and Council's Rules and conditions.
2. Any alterations which may be shown on a stamp as special conditions of approval.

SCOPE OF WORKS FOR THE REPAIR OF ROOF/WATER DAMAGE  
TO THE PREMISES OF HALE IMPORTS PTY LTD  
97-99 OLD FETTERBURY ROAD, BROOKVALE  
*H. Carpenter*

### GENERAL

All repair work is to be carried out by trades duly licenced under the Building Services Corporation Act of NSW and the prime Contracting Full licenced Builder is to be responsible for the lodging and uplifting of all appropriate permits as required. All reconstruction is to be to Ordinance 70 or Local Authority Regulations, as applicable.

### General Demolition

Ensuring security to the remaining warehouse area and with due attention to items of the insured's property, remove all fire damaged debris from the site area and dispose of. Remove the existing cliplock roof, complete with pre-existing Stramfit fittings, ceiling, joists, hangers, ceiling linings and the like down to top plate level. Remove the formed fascia and eaves of the front and left side. Remove the remnants of the window joinery from the general office area, Managing Directors office, and showroom front. Remove the timber frame partition wall between the showroom, general office and hallway. Remove the fire damaged doors, jams and moulds from the Managing Directors office, computer room, marketing office. Remove the damaged ply wall panelling of the Managing Director's office, sales office, marketing office. Remove all other fire damaged items of joinery, mouldings, skirtings, fixtures and fittings, including the built-in units of the Managing Directors office.

### RECONSTRUCTION

#### Roof Areas

Remove the western gable ends of the warehouse area, replace the fire damaged timbers, reconstruct (the damaged only) steel and timber supports of the roof framing of the full administration/showroom block, including all purlins, battens, joists, hangers, top plate, and clad with new cliplock, complete with all flashings, barge ends, gutters and downpipes. Re-clad the gable ends of the warehouse section in Super 6 Profile, complete with barge capping, and all flashings, ensuring full and total water seal. Replace all damaged steel cross bracing mem-

bers of the truss roof system and reconstruct the left and front facias to the building. All downpipes to be connected to pre-existing drainage points.

#### Ceiling

Supply and install all strutting, housing and extrusions for the installation of a suspended ceiling section throughout the entire showroom/administration block area, complete with insulated insert panels, edge mouldings and finishes.

Note: Finished ceiling height, as yet to be confirmed, as to whether it will be between the truss sections or under the truss sections. Refer to the Loss Adjustor.

#### Front and Left Facia and Eaves

Clad with horizontal shiplap profile cedar, secret nail, punch and fill. Supply and install the capping and box gutter flashings.

#### Concrete blockwork

Demolish and reconstruct the upper approximate 1500mm of the rear wall section of the general office area. Rake and repoint the reveals of the bedcourse and perpand joints, to the balance of the isolated area of the blockwork section throughout the full showroom, general office areas.

#### Electrical

Test all circuits of the warehouse section, common to the administration/showroom block and replace as required. In concealed wiring, replace all circuits to the administration/showroom block providing all switches, plates and outlets. In non-fire destroyed areas, locations are to be as listed. In fire destroyed areas, locations yet to be determined. Supply and replace light fittings as documented. Feature light and power outlets of the showroom yet to be determined. Refer to the Loss Adjustor.

#### Warehouse/Mezzanine area

Supply and install 1 x new flush panel door to the aperture between warehouse landing and general office. Complete with jambs, mouldings and hardware.

#### Electrical - Switchboard room

Supply and install new flush door, complete with jambs, mouldings and hardware.

#### Warehouse Packing Room. (below mezzanine)

Remove and replace approximately 4 metres x 2.4 metres of the water damaged ceiling, complete with cover strips.



### Adjoining Storeroom

To the balance of the lower level store room, scrub down the minor water streaking.

### Sub-floor area

In the sub-floor area, under the general office, replace the 10 washer of the drainage bend.

### Mezzanine Level

To the tea room, situated at the southern end, wash down and prepare to paint ceilings and wall areas. Replace ventilation grilles to the adjoining kitchen accessed from the storeroom. Install 1 x new inwall fan to the same area.

### Void area

In comparable timbers replace charred framework, install new installation batts, generally make good the wall sheeting nearest the warehouse side. Repoint and secure the diagonal brackwork by raking and repointing the bedcourse and perpend joints.

### General mezzanine balance

Nil requirements, apart from general clean and tidy up.

### SHOWROOM/ADMINISTRATION AREAS

#### Kitchen off showroom

Wash down walls, ceiling and floor, wash down cupboards and benches. Exhaust fan and ventilator covers as per mezzanine tea room. Sand and renew the cork floor. Prepare the general area for paint. Supply and install 1 x new fluorescent light ceiling fitting.

#### Mens/Ladies Toilets

Wash down and prepare for paint. Clean all fixtures, fittings, cisterns, pans, basins and mirrors and accessories. Prepare for paint.

#### Hallway (south)

Clean and prepare wall surfaces for repainting. Install 1 x ceiling mounted fluorescent fitting.

#### Mr Simpson's office

Supply 4 x ceiling mounted fluorescent fittings. Clean and prepare all surfaces for repaint. Supply and install 1 x new

4

window mounted exhaust fan. Supply and install 1 x new inwall airconditioning unit.

#### Stationery Room

Supply and install 2 x new ceiling mounted fluorescent light units. Wash down all surfaces in preparation of repaint.

#### Sales Office

Supply and install new ply wall panelling, complete with covers to the east, south and west walls. Install skirtings as appropriate. Supply and install 3 x ceiling mounted fluorescent mounted light units. Supply and install 1 x new window mounted airconditioning unit. Generally wash down and prepare total area for repaint.

#### Main Showroom

Remove the remnants of the front showroom windows and doorway, check, measure, have fabricated and install new units of aluminium construction extrusion and reglaze with clear glass to Local Authority regulations. Supply all hardware and closers. In conjunction with framework construction, on completion provide and install all nosing, capping, skirtings and mouldings.

Note: All electrical, lighting, alarm systems, fixtures, fittings, display panels and stands will be documented by separate specification for the showroom area.

#### Small Showroom

In steel frame clad with gyprok, complete with all mouldings, construct the new partition wall between the hallway and general office. Generally clean down both showroom areas suitable for repaint.

#### Marketing office

Supply and install 1 x new flush door, complete with jambs, mouldings and hardware, re-sheat three wall with new feature ply panelling. Supply and install 1 x new ceiling mounted fluorescent light fitting. Supply and install 1 x new inwall airconditioning unit. Generally clean area in preparation of repaint.

#### Computer Room

Supply and install 1 x new ceiling mounted fluorescent light fitting. Reglaze windows. Approximately 900mm x 600mm. Supply and install 1 x new window mounted airconditioning unit. Supply and install 1 x new flush door, complete with jambs, mouldings and hardware. Generally clean area suitable for painting.

### Managing Directors Office

Supply and install new flush panel door, complete with jambs, mouldings and hardware. Supply and install new aluminium frame windows and glaze to local regulations. Supply and install 2 x new ceiling mounted fluorescent light fittings. Supply and install 1 x new wall mounted airconditioning unit. Reconstruct in first grade timbers and finishes, the built in shelving and cupboard unit at the right rear of the office location. Generally clean and prepare for repaint.

### Ensuite

Wash down all surfaces, including pan, cisterns, basins, fittings and accessories. Supply and install 1 x new wall hung shaving cabinet, approximately 600mm x 300mm. Rake and repaint the bedcourse and perpend joints of the blockwork in the release areas. Supply and install 1 x new shower rail and curtain. Generally clean and prepare for repaint.

### General Office

In conjunction with warehouse detail, supply and install 1 x new front door, complete with jambs, mouldings and hardware. Supply and install 2 x new inwall airconditioning units. In conjunction with small showroom area, construct 1 x steel frame partition wall. Supply and install 2 x new aluminium frame windows, glaze to local regulations. Make good mouldings and covers to RSJ column mounts. Provide and install all finished mouldings, skirtings, and the like.

### PAINTING

To areas of previous joinery remaining, which have been smoke/fire or water damaged and blistered, strip, sand and prepare apply 1 x sealant/undercoat and 2 x finished coat.

To all areas of new joinery, ceiling panels, mouldings. Clean and prepare, apply 1 x sealant/undercoat. 2 x finish coat.

To cork floor areas, sand, prepare, and apply 1 x penetration coat of reduced sealant, and 2 x finished coats.

To new nominated stain areas, apply 1 x reduced sealant coat and 2 x finish coats.

### External Work

To new timber work, fascias, gutters, downpipes and eaves. Apply 1 x primer coat, 1 x undercoat, 1 x finish coat. To external blockwork, clean down and apply 1 x finish coat.

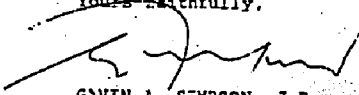
Warehouse Sarking

To the area extending from the rear wall of the general office and to the first rearward steel frame and from the northern side of the warehouse to the ridge point of the warehouse roof in the left front quadrant, spray by airless gun 2 x finish coats of paint to framework, purlins, braces, sarking, mesh.

ON COMPLETION

Remove all trade debris from the site, and clean throughout suitable for presentation and business apparition.

Yours faithfully,



GAVIN A. SIMPSON J.P.

Building Consultant  
B.L.N. 29175  
M.B.A.



## SafeWork NSW Records



## Craig Ridley

---

**From:** Licensing <licensing@safework.nsw.gov.au>  
**Sent:** Thursday, 10 February 2022 2:07 PM  
**To:** Craig Ridley  
**Subject:** SafeWork NSW: 00652167 –Site Search application – Result found - 99-105 Old Pittwater Road Brookvale NSW 2100. [ ref:\_00D281hl6J.\_5004a6dfuS:ref ]  
**Attachments:** 501778 results.pdf

**Security Classification: Sensitive Personal**  
**Please do not amend the subject line of this email**

Dear Mr Ridley

**Re: Site Search for Schedule 11 Hazardous Chemicals on premises Application – Result found**

I refer to your application for a Site Search for Schedule 11 Hazardous Chemicals on premises for the following site: 99-105 Old Pittwater Road Brookvale NSW 2100.

Please find attached copies of the documents that SafeWork NSW holds on record number 35/035629 relating to the storage of Hazardous Chemicals at the above-mentioned premises.

If you have any further information or if you have any questions, please use one of the following options, quoting the SafeWork NSW enquiry reference number: 00652167

- Email: [licensing@safework.nsw.gov.au](mailto:licensing@safework.nsw.gov.au)
- Phone: 13 10 50

Kind regards

**Gabriela Draper**

**Licensing Representative**

SafeWork NSW | Better Regulation Division

Department of Customer Service

p- 13 10 50

e- [licensing@safework.nsw.gov.au](mailto:licensing@safework.nsw.gov.au) | [www.customerservice.nsw.gov.au](http://www.customerservice.nsw.gov.au)

Level 3, 32 Mann Street, Gosford, NSW 2250

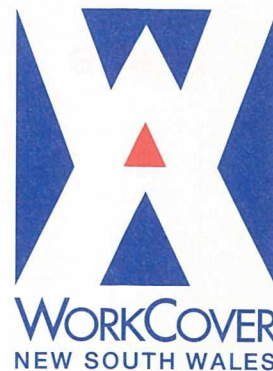


**Customer  
Service**

We are always looking for ways that we can improve our services. You may be contacted by email in the next few weeks to complete a short survey and provide us with your feedback on what we did well and where we can improve. If you do not wish to participate in our surveys, please email us at: [licensingQA@customerservice.nsw.gov.au](mailto:licensingQA@customerservice.nsw.gov.au) and we will ensure that you are not contacted.

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# Application for Licence to Keep Dangerous Goods



Application for ☒ new licence ☐ amendment ☐ transfer ☐ renewal of expired licence

## PART A - Applicant and site information

1 Name of applicant	ACN	
Efficiency Displays Pty Ltd	002 904 243	
2 Postal address of applicant	Suburb/Town	Postcode
PO Box 845	BROOKVALE	2100
3 Trading name or site occupier's name		
4 Contact for licence inquiries	Phone	Fax
9938 66 22	9905 1927	
5 Previous licence number (if known)	35/	
6 Previous occupier (if known)		
7 Site to be licensed	No	Street
101-105	Old Pittwater Road	
Suburb / Town	Postcode	
BROOKVALE	2100	
8 Main business of site	Manufacturer	
9 Site staffing: Hours per day	Days per week	
10 Emergency contact	Phone	Name
	0414 514 580	Garry Newling
11 Major supplier of dangerous goods	Boc Gases	

12 If a new site or for amendments to depots

Plan stamped by:	Name of Accredited Consultant	Date stamped

I certify that the details in this application (including any accompanying computer disk) are correct and cover all licensable quantities of dangerous goods kept on the premises.

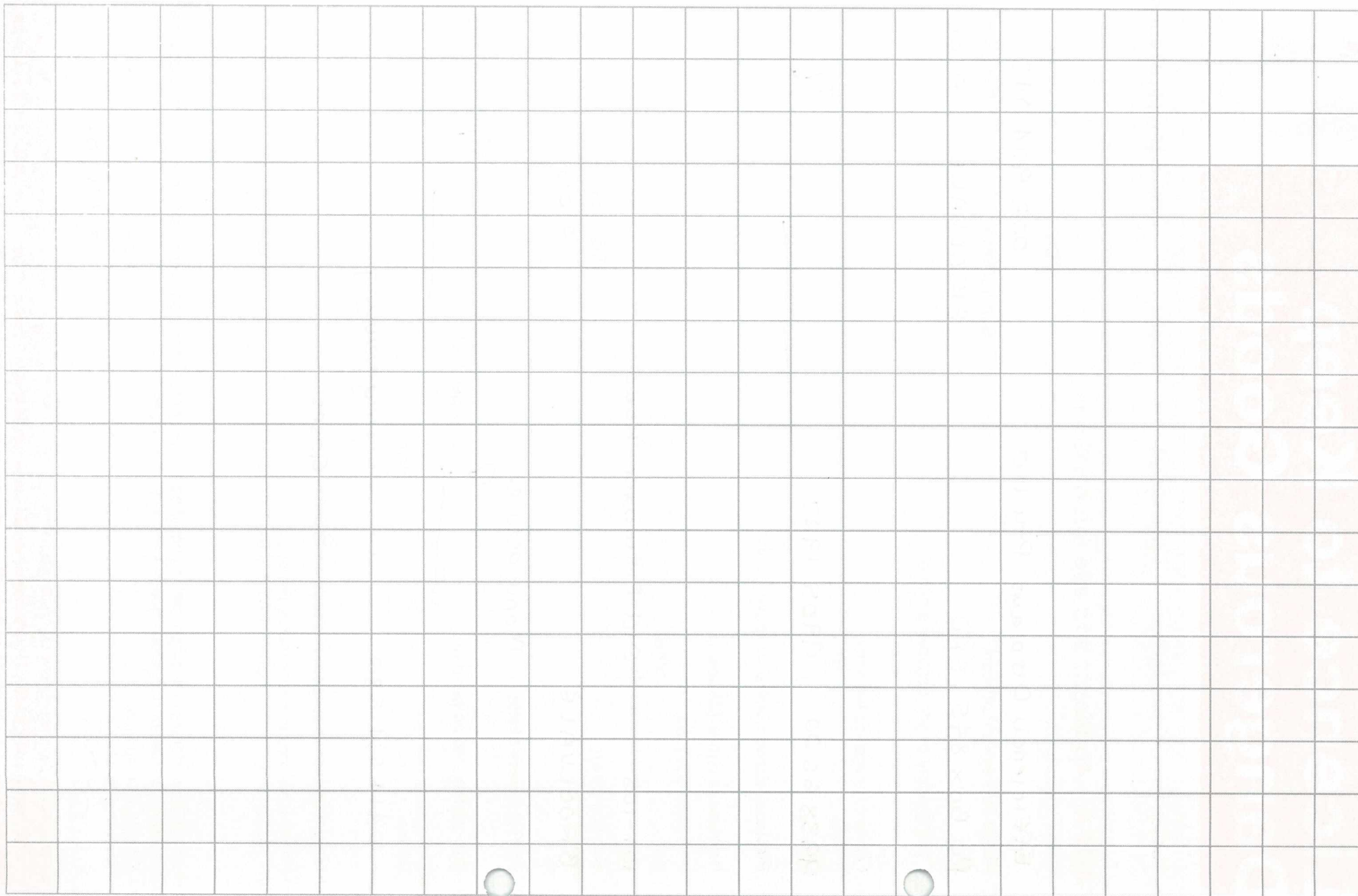
13 Signature of applicant	Date
	22/11/02

Please send your application, marked **CONFIDENTIAL**, to:

**Dangerous Goods Licensing, Level 3, Locked Bag 10, Clarence Street,  
SYDNEY NSW 2000**



**Site Sketch** Please carefully read the instructions on page 3 of the guide before sketching the site.



**PART C – Dangerous Goods Storage** Complete one section per depot.

If you have more depots than the space provided, photocopy sufficient sheets first.

Depot Number	Type of depot	Depot Class	Maximum storage capacity
1	Flammable	2.1	1500 L

UN Number	Correct Shipping Name	PG Class (I, II, III)	Product or common name	Typical quantity	Unit, e.g. L, kg, m <sup>3</sup>	
1075	LPG	2.1	I	LPG	500 L	L
1001	Acetylene	2.1	I	Acetylene	1000	L

Depot Number	Type of depot	Depot Class	Maximum storage capacity
2	Compressed non flammable	2.2	72000 L

UN Number	Correct Shipping Name	PG Class (I, II, III)	Product or common name	Typical quantity	Unit, e.g. L, kg, m <sup>3</sup>	
1956	Argoshield	2.2	II	Argoshield Light	53.4	L
1072	Oxygen	2.2	II	Oxygen Compressed	18.6	L



**PART C – Dangerous Goods Storage** Complete one section per depot.

If you have more depots than the space provided, photocopy sufficient sheets first.

Depot Number	Type of depot	Depot Class	Maximum storage capacity

UN Number	Correct Shipping Name	PG Class (I, II, III)	Product or common name	Typical quantity	Unit, e.g. L, kg, m <sup>3</sup>

Depot Number	Type of depot	Depot Class	Maximum storage capacity

UN Number	Correct Shipping Name	PG Class (I, II, III)	Product or common name	Typical quantity	Unit, e.g. L, kg, m <sup>3</sup>

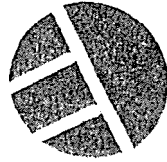
Depot Number	Type of depot	Depot Class	Maximum storage capacity

UN Number	Correct Shipping Name	PG Class (I, II, III)	Product or common name	Typical quantity	Unit, e.g. L, kg, m <sup>3</sup>

Depot Number	Type of depot	Depot Class	Maximum storage capacity

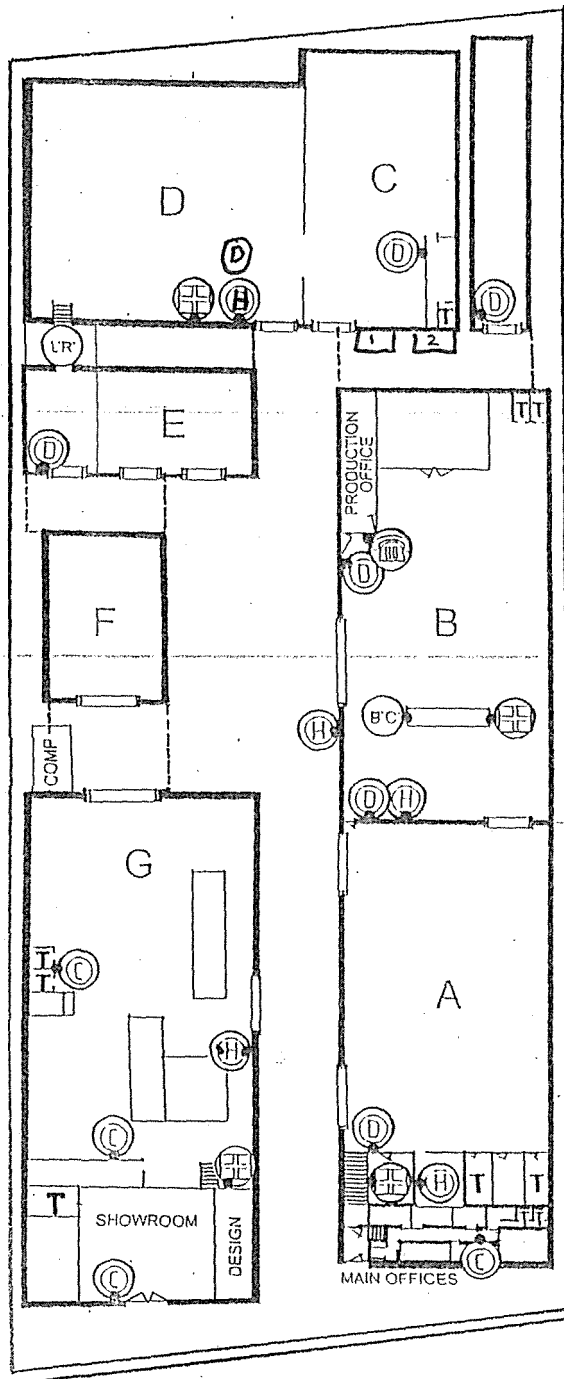
UN Number	Correct Shipping Name	PG Class (I, II, III)	Product or common name	Typical quantity	Unit, e.g. L, kg, m <sup>3</sup>













# EFFICIENCY DISPLAYS

## SITE MAP



- A WAREHOUSE
- B MAIN FACTORY
- C SPOT WELDING
- D SHEET SHOP
- E WELDING BAYS
- F STORAGE
- G POWDERCOATING
- T TOILETS

-  FIRST AID BOX
-  EMERGENCY PHONE
-  CO2 FIRE EXTINGUISHERS
-  DRY
-  FIRE HOSE
-  ROLLER DOOR ACCESS
-  BUNDY CLOCK
-  LUNCH ROOM

DEPOT 1 - LPG AND ACETYLEN  
CLASS 2 - 250 KG's.  
DEPOT 2 - INERT GASES AND  
OXYGEN. 69.6 sm<sup>3</sup> CLASS 2.

OLD PITTWATER ROAD



## **Appendix C: Laboratory Results Summary Tables**

## ABBREVIATIONS AND EXPLANATIONS

### Abbreviations used in the Tables:

<b>ABC:</b>	Ambient Background Concentration	<b>PCBs:</b>	Polychlorinated Biphenyls
<b>ACM:</b>	Asbestos Containing Material	<b>PCE:</b>	Perchloroethylene (Tetrachloroethylene or Tetrachloroethene)
<b>ADWG:</b>	Australian Drinking Water Guidelines	<b>pH<sub>KCL</sub>:</b>	pH of filtered 1:20, 1M KCL extract, shaken overnight
<b>AF:</b>	Asbestos Fines	<b>pH<sub>ox</sub>:</b>	pH of filtered 1:20 1M KCL after peroxide digestion
<b>ANZG:</b>	Australian and New Zealand Guidelines	<b>PQL:</b>	Practical Quantitation Limit
<b>B(a)P:</b>	Benzo(a)pyrene	<b>RS:</b>	Rinsate Sample
<b>CEC:</b>	Cation Exchange Capacity	<b>RSL:</b>	Regional Screening Levels
<b>CRC:</b>	Cooperative Research Centre	<b>RSW:</b>	Restricted Solid Waste
<b>CT:</b>	Contaminant Threshold	<b>SAC:</b>	Site Assessment Criteria
<b>EILs:</b>	Ecological Investigation Levels	<b>SCC:</b>	Specific Contaminant Concentration
<b>ESLs:</b>	Ecological Screening Levels	<b>S<sub>Cr</sub>:</b>	Chromium reducible sulfur
<b>FA:</b>	Fibrous Asbestos	<b>S<sub>POS</sub>:</b>	Peroxide oxidisable Sulfur
<b>GIL:</b>	Groundwater Investigation Levels	<b>SSA:</b>	Site Specific Assessment
<b>GSW:</b>	General Solid Waste	<b>SSHSLs:</b>	Site Specific Health Screening Levels
<b>HILs:</b>	Health Investigation Levels	<b>TAA:</b>	Total Actual Acidity in 1M KCL extract titrated to pH6.5
<b>HSLs:</b>	Health Screening Levels	<b>TB:</b>	Trip Blank
<b>HSL-SSA:</b>	Health Screening Level-Site Specific Assessment	<b>TCA:</b>	1,1,1 Trichloroethane (methyl chloroform)
<b>kg/L</b>	kilograms per litre	<b>TCE:</b>	Trichloroethylene (Trichloroethene)
<b>NA:</b>	Not Analysed	<b>TCLP:</b>	Toxicity Characteristics Leaching Procedure
<b>NC:</b>	Not Calculated	<b>TPA:</b>	Total Potential Acidity, 1M KCL peroxide digest
<b>NEPM:</b>	National Environmental Protection Measure	<b>TS:</b>	Trip Spike
<b>NHMRC:</b>	National Health and Medical Research Council	<b>TRH:</b>	Total Recoverable Hydrocarbons
<b>NL:</b>	Not Limiting	<b>TSA:</b>	Total Sulfide Acidity (TPA-TAA)
<b>NSL:</b>	No Set Limit	<b>UCL:</b>	Upper Level Confidence Limit on Mean Value
<b>OCP:</b>	Organochlorine Pesticides	<b>USEPA</b>	United States Environmental Protection Agency
<b>OPP:</b>	Organophosphorus Pesticides	<b>VOCC:</b>	Volatile Organic Chlorinated Compounds
<b>PAHs:</b>	Polycyclic Aromatic Hydrocarbons	<b>WHO:</b>	World Health Organisation
<b>%w/w:</b>	weight per weight		
<b>ppm:</b>	Parts per million		

### Table Specific Explanations:

#### HIL Tables:

- The chromium results are for Total Chromium which includes Chromium III and VI. For initial screening purposes, we have assumed that the samples contain only Chromium VI unless demonstrated otherwise by additional analysis.
- Carcinogenic PAHs is a toxicity weighted sum of analyte concentrations for a specific list of PAH compounds relative to B(a)P. It is also referred to as the B(a)P Toxic Equivalence Quotient (TEQ).
- Statistical calculations are undertaken using ProUCL (USEPA). Statistical calculation is usually undertaken using data from fill samples.

#### EIL/ESL Table:

- ABC Values for selected metals have been adopted from the published background concentrations presented in Olszowy et. al., (1995), Trace Element Concentrations in Soils from Rural and Urban New South Wales (the 25th percentile values for old suburbs with high traffic have been quoted).

#### Waste Classification and TCLP Table:

- Data assessed using the NSW EPA Waste Classification Guidelines, Part 1: Classifying Waste (2014).
- The assessment of Total Moderately Harmful pesticides includes: Dichlorovos, Dimethoate, Fenitrothion, Ethion, Malathion and Parathion.
- Assessment of Total Scheduled pesticides include: HBC, alpha-BHC, gamma-BHC, beta-BHC, Heptachlor, Aldrin, Heptachlor Epoxide, gamma-Chlordane, alpha-chlordane, pp-DDE, Dieldrin, Endrin, pp-DDD, pp-DDT, Endrin Aldehyde.

#### QA/QC Table:

- Field blank, Inter and Intra laboratory duplicate results are reported in mg/kg.
- Trip spike results are reported as percentage recovery.



TABLE S1  
SOIL LABORATORY RESULTS COMPARED TO NEPM 2013.  
HIL-D: 'Commercial/Industrial'

All data in mg/kg unless stated otherwise			HEAVY METALS								PAHs		ORGANOCHLORINE PESTICIDES (OCPs)							OP PESTICIDES (OPPs)	TOTAL PCBs	ASBESTOS FIBRES
			Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	Total PAHs	Carcinogenic PAHs	HCB	Endosulfan	Methoxychlor	Aldrin & Dieldrin	Chlordane	DDT, DDD & DDE	Heptachlor	Chlorpyrifos		
PQL - Envirolab Services			4	0.4	1	1	1	0.1	1	1	-	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	100
Site Assessment Criteria (SAC)			3000	900	3600	240000	1500	730	6000	400000	4000	40	80	2000	2500	45	530	3600	50	2000	7	Detected/Not Detected
Sample Reference	Sample Depth	Sample Description																				
BH4	0.24-0.45	Fill: Gravelly Sand	6	0.6	13	2	9	<0.1	1	6	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA
BH4 - [LAB_DUP]	0.24-0.45	Laboratory Duplicate	<4	<0.4	6	2	5	<0.1	<1	4	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA
BH4 - [TRIPLICATE]	0.24-0.45	Laboratory Triplicate	6	0.4	10	5	10	<0.1	2	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH4	0.5-0.9	Fill: Silty Sand	<4	<0.4	8	<1	12	<0.1	2	17	<0.05	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	Not Detected
BH5	0.2-0.5	Fill: Silty Sand	<4	<0.4	2	1	12	<0.1	<1	10	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Not Detected
BH5	0.6-0.8	Silty Clayey Sand	<4	<0.4	8	<1	10	<0.1	2	27	<0.05	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH6	0.13-0.35	Fill: Silty Clay	7	0.4	18	12	12	<0.1	4	13	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	Detected
BH6	0.6-0.8	Fill: Silty Sand	<4	<0.4	5	4	17	<0.1	<1	79	<0.05	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH7	0.2-0.6	Fill: Silty Sand	<4	23	17	40	420	<0.1	5	11000	3	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Detected
BH7 - [LAB_DUP]	0.2-0.6	Laboratory Duplicate	NA	NA	NA	NA	NA	NA	NA	NA	3.6	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH7 - [SPOIL]	0.4-0.6	Fragment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Detected
BH7	0.9-1.2	Silty Sand	<4	<0.4	<1	3	18	<0.1	<1	35	<0.05	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SDUP2	0.2-0.5	Duplicate of BH5	<4	<0.4	3	<1	12	<0.1	<1	11	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA
SDUP2 - [LAB_DUP]	0.2-0.5	Laboratory Duplicate	<4	<0.4	2	2	10	<0.1	<1	14	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA
SDUP4	0.2-0.6	Duplicate of BH7	<4	12	11	48	360	<0.1	7	4700	5.4	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA
Total Number of Samples			13	13	13	13	13	13	13	13	13	13	8	8	8	8	8	8	8	8	8	5
Maximum Value			7	23	18	48	420	<PQL	7	11000	5.4	1	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	Detected

Concentration above the SAC  
Concentration above the PQL

VALUE

Bold

**TABLE S2**  
**SOIL LABORATORY RESULTS COMPARED TO HSLs**  
All data in mg/kg unless stated otherwise

					C <sub>6</sub> -C <sub>10</sub> (F1)	>C <sub>10</sub> -C <sub>16</sub> (F2)	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	Field PID Measurement
PQL - Envirolab Services					25	50	0.2	0.5	1	1	1	ppm
NEPM 2013 HSL Land Use Category					HSL-D: COMMERCIAL/INDUSTRIAL							
Sample Reference	Sample Depth	Sample Description	Depth Category	Soil Category								
BH4	0.24-0.45	Fill: Gravelly Sand	0m to <1m	Sand	<25	<50	<0.2	<0.5	<1	<3	<1	0
BH4 - [LAB_DUP]	0.24-0.45	Laboratory Duplicate	0m to <1m	Sand	<25	<50	<0.2	<0.5	<1	<3	<1	0
BH4	0.5-0.9	Fill: Silty Sand	0m to <1m	Sand	<25	<50	<0.2	<0.5	<1	<3	<1	0
BH5	0.2-0.5	Fill: Silty Sand	0m to <1m	Sand	<25	<50	<0.2	<0.5	<1	<3	<1	0
BH5	0.6-0.8	Silty Clayey Sand	0m to <1m	Sand	<25	<50	<0.2	<0.5	<1	<3	<1	0
BH6	0.13-0.35	Fill: Silty Clay	0m to <1m	Sand	<25	<b>54</b>	<0.2	<0.5	<1	<3	<1	2
BH6	0.6-0.8	Fill: Silty Sand	0m to <1m	Sand	<25	<50	<0.2	<0.5	<1	<3	<1	0
BH7	0.2-0.6	Fill: Silty Sand	0m to <1m	Sand	<25	<50	<0.2	<0.5	<1	<3	<1	0
BH7	0.9-1.2	Silty Sand	0m to <1m	Sand	<25	<50	<0.2	<0.5	<1	<3	<1	0
SDUP2	0.2-0.5	Duplicate of BH5	0m to <1m	Sand	<25	<50	<0.2	<0.5	<1	<3	<1	NA
SDUP2 - [LAB_DUP]	0.2-0.5	Laboratory Duplicate	0m to <1m	Sand	<25	<50	<0.2	<0.5	<1	<3	<1	NA
SDUP4	0.2-0.6	Duplicate of BH7	0m to <1m	Sand	<25	<50	<0.2	<0.5	<1	<3	<1	NA
<b>Total Number of Samples</b>					12	12	12	12	12	12	12	9
<b>Maximum Value</b>					<PQL	54	<PQL	<PQL	<PQL	<PQL	<PQL	2

Concentration above the SAC

**VALUE**

Concentration above the PQL

**Bold**

The guideline corresponding to the concentration above the SAC is highlighted in grey in the Site Assessment Criteria Table below

#### HSL SOIL ASSESSMENT CRITERIA

Sample Reference	Sample Depth	Sample Description	Depth Category	Soil Category	C <sub>6</sub> -C <sub>10</sub> (F1)	>C <sub>10</sub> -C <sub>16</sub> (F2)	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene
BH4	0.24-0.45	Fill: Gravelly Sand	0m to <1m	Sand	260	NL	3	NL	NL	230	NL
BH4 - [LAB_DUP]	0.24-0.45	Laboratory Duplicate	0m to <1m	Sand	260	NL	3	NL	NL	230	NL
BH4	0.5-0.9	Fill: Silty Sand	0m to <1m	Sand	260	NL	3	NL	NL	230	NL
BH5	0.2-0.5	Fill: Silty Sand	0m to <1m	Sand	260	NL	3	NL	NL	230	NL
BH5	0.6-0.8	Silty Clayey Sand	0m to <1m	Sand	260	NL	3	NL	NL	230	NL
BH6	0.13-0.35	Fill: Silty Clay	0m to <1m	Sand	260	NL	3	NL	NL	230	NL
BH6	0.6-0.8	Fill: Silty Sand	0m to <1m	Sand	260	NL	3	NL	NL	230	NL
BH7	0.2-0.6	Fill: Silty Sand	0m to <1m	Sand	260	NL	3	NL	NL	230	NL
BH7	0.9-1.2	Silty Sand	0m to <1m	Sand	260	NL	3	NL	NL	230	NL
SDUP2	0.2-0.5	Duplicate of BH5	0m to <1m	Sand	260	NL	3	NL	NL	230	NL
SDUP2 - [LAB_DUP]	0.2-0.5	Laboratory Duplicate	0m to <1m	Sand	260	NL	3	NL	NL	230	NL
SDUP4	0.2-0.6	Duplicate of BH7	0m to <1m	Sand	260	NL	3	NL	NL	230	NL

**TABLE S3**  
**SOIL LABORATORY RESULTS COMPARED TO MANAGEMENT LIMITS**  
All data in mg/kg unless stated otherwise

			C <sub>6</sub> -C <sub>10</sub> (F1) plus BTEX	>C <sub>10</sub> -C <sub>16</sub> (F2) plus naphthalene	>C <sub>16</sub> -C <sub>34</sub> (F3)	>C <sub>34</sub> -C <sub>40</sub> (F4)
PQL - Envirolab Services			25	50	100	100
NEPM 2013 Land Use Category			<b>COMMERCIAL/INDUSTRIAL</b>			
Sample Reference	Sample Depth	Soil Texture				
BH4	0.24-0.45	Coarse	<25	<50	<100	<100
BH4 - [LAB_DUP]	0.24-0.45	Coarse	<25	<50	<100	<100
BH4	0.5-0.9	Coarse	<25	<50	<100	<100
BH5	0.2-0.5	Coarse	<25	<50	<100	<100
BH5	0.6-0.8	Coarse	<25	<50	<100	<100
BH6	0.13-0.35	Fine	<25	<b>54</b>	<b>330</b>	<100
BH6	0.6-0.8	Coarse	<25	<50	<100	<100
BH7	0.2-0.6	Coarse	<25	<50	<100	<100
BH7	0.9-1.2	Coarse	<25	<50	<100	<100
SDUP2	0.2-0.5	Coarse	<25	<50	<100	<100
SDUP2 - [LAB_DUP]	0.2-0.5	Coarse	<25	<50	<100	<100
SDUP4	0.2-0.6	Coarse	<25	<50	<100	<100
<b>Total Number of Samples</b>			12	12	12	12
<b>Maximum Value</b>			<PQL	54	330	<PQL
Concentration above the SAC			<b>VALUE</b>			
Concentration above the PQL			<b>Bold</b>			

**MANAGEMENT LIMIT ASSESSMENT CRITERIA**

Sample Reference	Sample Depth	Soil Texture	C <sub>6</sub> -C <sub>10</sub> (F1) plus BTEX	>C <sub>10</sub> -C <sub>16</sub> (F2) plus naphthalene	>C <sub>16</sub> -C <sub>34</sub> (F3)	>C <sub>34</sub> -C <sub>40</sub> (F4)
BH4	0.24-0.45	Coarse	700	1000	3500	10000
BH4 - [LAB_DUP]	0.24-0.45	Coarse	700	1000	3500	10000
BH4	0.5-0.9	Coarse	700	1000	3500	10000
BH5	0.2-0.5	Coarse	700	1000	3500	10000
BH5	0.6-0.8	Coarse	700	1000	3500	10000
BH6	0.13-0.35	Fine	800	1000	5000	10000
BH6	0.6-0.8	Coarse	700	1000	3500	10000
BH7	0.2-0.6	Coarse	700	1000	3500	10000
BH7	0.9-1.2	Coarse	700	1000	3500	10000
SDUP2	0.2-0.5	Coarse	700	1000	3500	10000
SDUP2 - [LAB_DUP]	0.2-0.5	Coarse	700	1000	3500	10000
SDUP4	0.2-0.6	Coarse	700	1000	3500	10000

**TABLE S4**  
**SOIL LABORATORY RESULTS COMPARED TO DIRECT CONTACT CRITERIA**  
All data in mg/kg unless stated otherwise

Analyte		C <sub>6</sub> -C <sub>10</sub>	>C <sub>10</sub> -C <sub>16</sub>	>C <sub>16</sub> -C <sub>34</sub>	>C <sub>34</sub> -C <sub>40</sub>	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	PID
PQL - Envirolab Services		25	50	100	100	0.2	0.5	1	1	1	
CRC 2011 -Direct contact Criteria		26,000	20,000	27,000	38,000	430	99,000	27,000	81,000	11,000	
Site Use		COMMERCIAL/INDUSTRIAL - DIRECT SOIL CONTACT									
Sample Reference	Sample Depth										
BH4	0.24-0.45	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<1	0
BH4 - [LAB_DUP]	0.24-0.45	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<1	0
BH4	0.5-0.9	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<1	0
BH5	0.2-0.5	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<1	0
BH5	0.6-0.8	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<1	0
BH6	0.13-0.35	<25	54	330	<100	<0.2	<0.5	<1	<3	<1	2
BH6	0.6-0.8	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<1	0
BH7	0.2-0.6	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<1	0
BH7	0.9-1.2	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<1	0
SDUP2	0.2-0.5	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<1	NA
SDUP2 - [LAB_DUP]	0.2-0.5	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<1	NA
SDUP4	0.2-0.6	<25	<50	<100	<100	<0.2	<0.5	<1	<1	<1	NA
Total Number of Samples		12	12	12	12	12	12	12	12	12	9
Maximum Value		<PQL	54	330	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	2
Concentration above the SAC		VALUE									
Concentration above the PQL		Bold									

TABLE S5 ASBESTOS QUANTIFICATION - FIELD OBSERVATIONS AND LABORATORY RESULTS HIL-D:Commercial/Industrial																														
FIELD DATA															LABORATORY DATA															
Date Sampled	Sample reference	Sample Depth	Visible ACM in top 100mm	Approx. Volume of Soil (L)	Soil Mass (g)	Mass ACM (g)	Mass Asbestos in ACM (g)	[Asbestos from ACM in soil] (%w/w)	Mass ACM <7mm (g)	Mass Asbestos in ACM <7mm (g)	[Asbestos from ACM <7mm in soil] (%w/w)	Mass FA (g)	Mass Asbestos in FA (g)	[Asbestos from FA in soil] (%w/w)	Lab Report Number	Sample reference	Sample Depth	Sample Mass (g)	Asbestos ID in soil (AS4964) >0.1g/kg	Trace Analysis	Total Asbestos (g/kg)	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation (g)	FA and AF Estimation (g)	ACM >7mm Estimation % (w/w)	FA and AF Estimation % (w/w)				
SAC			No		0.05				0.001			0.001				0.05													0.001	
22/01/2022	BH4	0.45-1.0m	NA	--	4500	No ACM observed	--	--	No ACM <7mm observed	--	--	No FA observed	--	--	287219	BH4	0.5-0.9m	618.59	No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected	No asbestos detected	<0.1	No visible asbestos detected	-	-	<0.01	<0.001				
22/01/2022	BH5	0.2-0.5m	NA	--	2300	No ACM observed	--	--	No ACM <7mm observed	--	--	No FA observed	--	--	287219	BH5	0.2-.0.5m	827.59	No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected	No asbestos detected	<0.1	No visible asbestos detected	-	-	<0.01	<0.001				
22/01/2022	BH5	0.13-0.35m	NA	--	1600	No ACM observed	--	--	No ACM <7mm observed	--	--	No FA observed	--	--	287219	BH6	0.13-0.35m	562.7	No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected	No asbestos detected	<0.1	Chrysotile	-	0.0125	<0.01	0.0022				
22/01/2022	BH6	0.5-0.9m	NA	--	1400	No ACM observed	--	--	No ACM <7mm observed	--	--	No FA observed	--	--	287219	BH7	0.2-0.6m	570.32	No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected	No asbestos detected	<0.1	Chrysotile:Amosite	0.0383	0.0136	<0.01	0.0024				
22/01/2022	BH7	0.18-0.7	NA	--	3,200	No ACM observed	--	--	No ACM <7mm observed	--	--	No FA observed	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
Concentration above the SAC			VALUE																											



TABLE S6 SOIL LABORATORY RESULTS COMPARED TO NEPM 2013 EILs AND ESLs All data in mg/kg unless stated otherwise																									
Land Use Category				COMMERCIAL/INDUSTRIAL																					
				pH	CEC (cmolc/kg)	Clay Content (% clay)	AGED HEAVY METALS-EILs						EILs		ESLs										
							Arsenic	Chromium	Copper	Lead	Nickel	Zinc	Naphthalene	DDT	C <sub>6</sub> -C <sub>10</sub> (F1)	>C <sub>10</sub> -C <sub>16</sub> (F2)	>C <sub>16</sub> -C <sub>34</sub> (F3)	>C <sub>34</sub> -C <sub>40</sub> (F4)	Benzene	Toluene	Ethylbenzene	Total Xylenes	B(a)P		
PQL - Envirolab Services				-	1	-	4	1	1	1	1	1	1	0.1	25	50	100	100	0.2	0.5	1	1	0.05		
Ambient Background Concentration (ABC)				-	-	-	NSL	13	28	163	5	122	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL	NSL		
Sample Reference	Sample Depth	Sample Description	Soil Texture																						
BH4	0.24-0.45	Fill: Gravelly Sand	Coarse	NA	NA	NA	6	13	2	9	1	6	<1	<0.1	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.05		
BH4 - [LAB_DUP]	0.24-0.45	Laboratory Duplicate	Coarse	NA	NA	NA	<4	6	2	5	<1	4	<1	<0.1	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.05		
BH4 - [TRIPLICATE]	0.24-0.45	Laboratory Triplicate	Coarse	NA	NA	NA	6	10	5	10	2	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
BH4	0.5-0.9	Fill: Silty Sand	Coarse	NA	NA	NA	<4	8	<1	12	2	17	<1	NA	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.05		
BH5	0.2-0.5	Fill: Silty Sand	Coarse	NA	NA	NA	<4	2	1	12	<1	10	<1	<0.1	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.05		
BH5	0.6-0.8	Silty Clayey Sand	Coarse	NA	NA	NA	<4	8	<1	10	2	27	<1	NA	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.05		
BH6	0.13-0.35	Fill: Silty Clay	Fine	NA	NA	NA	7	18	12	12	4	13	<1	<0.1	<25	54	330	<100	<0.2	<0.5	<1	<3	<0.05		
BH6	0.6-0.8	Fill: Silty Sand	Coarse	NA	NA	NA	<4	5	4	17	<1	79	<1	NA	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.05		
BH7	0.2-0.6	Fill: Silty Sand	Coarse	NA	NA	NA	<4	17	40	420	5	11000	<1	<0.1	<25	<50	<100	<100	<0.2	<0.5	<1	<3	0.3		
BH7 - [LAB_DUP]	0.2-0.6	Laboratory Duplicate	Coarse	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.3		
BH7	0.9-1.2	Silty Sand	Coarse	NA	NA	NA	<4	<1	3	18	<1	35	<1	NA	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.05		
SDUP2	0.2-0.5	Duplicate of BH5	Coarse	NA	NA	NA	<4	3	<1	12	<1	11	<1	<0.1	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.05		
SDUP2 - [LAB_DUP]	0.2-0.5	Laboratory Duplicate	Coarse	NA	NA	NA	<4	2	2	10	<1	14	<1	<0.1	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.05		
SDUP4	0.2-0.6	Duplicate of BH7	Coarse	NA	NA	NA	<4	11	48	360	7	4700	<1	<0.1	<25	<50	<100	<100	<0.2	<0.5	<1	<1	0.69		
Total Number of Samples				0	0	0	13	13	13	13	13	13	12	8	12	12	12	12	12	12	12	12	13		
Maximum Value				NA	NA	NA	7	18	48	420	7	11000	<PQL	<PQL	<PQL	54	330	<PQL	<PQL	<PQL	<PQL	<PQL	0.69		
Concentration above the SAC				VALUE																					
Concentration above the PQL				Bold																					
The guideline corresponding to the elevated value is highlighted in grey in the EIL and ESL Assessment Criteria Table below																									

EIL AND ESL ASSESSMENT CRITERIA

Sample Reference	Sample Depth	Sample Description	Soil Texture	pH	CEC (cmolc/kg)	Clay Content (% clay)	Arsenic	Chromium	Copper	Lead	Nickel	Zinc	Naphthalene	DDT	C <sub>6</sub> -C <sub>10</sub> (F1)	>C <sub>10</sub> -C <sub>16</sub> (F2)	>C <sub>16</sub> -C <sub>34</sub> (F3)	>C <sub>34</sub> -C <sub>40</sub> (F4)	Benzene	Toluene	Ethylbenzene	Total Xylenes	B(a)P
BH4	0.24-0.45	Fill: Gravelly Sand	Coarse	NA	NA	NA	160	320	110	2000	60	230	370	640	215	170	1700	3300	75	135	165	180	72
BH4 - [LAB_DUP]	0.24-0.45	Laboratory Duplicate	Coarse	NA	NA	NA	160	320	110	2000	60	230	370	640	215	170	1700	3300	75	135	165	180	72
BH4 - [TRIPLICATE]	0.24-0.45	Laboratory Triplicate	Coarse	NA	NA	NA	160	320	110	2000	60	230	--	--	--	--	--	--	--	--	--	--	--
BH4	0.5-0.9	Fill: Silty Sand	Coarse	NA	NA	NA	160	320	110	2000	60	230	370	--	215	170	1700	3300	75	135	165	180	72
BH5	0.2-0.5	Fill: Silty Sand	Coarse	NA	NA	NA	160	320	110	2000	60	230	370	640	215	170	1700	3300	75	135	165	180	72
BH5	0.6-0.8	Silty Clayey Sand	Coarse	NA	NA	NA	160	320	110	2000	60	230	370	--	215	170	1700	3300	75	135	165	180	72
BH6	0.13-0.35	Fill: Silty Clay	Fine	NA	NA	NA	160	320	110	2000	60	230	370	640	215	170	2500	6600	95	135	185	95	72
BH6	0.6-0.8	Fill: Silty Sand	Coarse	NA	NA	NA	160	320	110	2000	60	230	370	--	215	170	1700	3300	75	135	165	180	72
BH7	0.2-0.6	Fill: Silty Sand	Coarse	NA	NA	NA	160	320	110	2000	60	230	370	640	215	170	1700	3300	75	135	165	180	72
BH7 - [LAB_DUP]	0.2-0.6	Laboratory Duplicate	Coarse	NA	NA	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	72
BH7	0.9-1.2	Silty Sand	Coarse	NA	NA	NA	160	320	110	2000	60	230	370	--	215	170	1700	3300	75	135	165	180	72
SDUP2	0.2-0.5	Duplicate of BH5	Coarse	NA	NA	NA	160	320	110	2000	60	230	370	640	215	170	1700	3300	75	135	165	180	72
SDUP2 - [LAB_DUP]	0.2-0.5	Laboratory Duplicate	Coarse	NA	NA	NA	160	320	110	2000	60	230	370	640	215	170	1700	3300	75	135	165	180	72
SDUP4	0.2-0.6	Duplicate of BH7	Coarse	NA	NA	NA	160	320	110	2000	60	230	370	640	215	170	1700	3300	75	135	165	180	72

TABLE S7  
SOIL LABORATORY RESULTS COMPARED TO WASTE CLASSIFICATION GUIDELINES  
All data in mg/kg unless stated otherwise

			HEAVY METALS								PAHs		OC/OP PESTICIDES				Total PCBs	TRH					BTEX COMPOUNDS				ASBESTOS FIBRES
			Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	Total PAHs	B(a)P	Total Endosulfans	Chloropyrifos	Total Moderately Harmful	Total Scheduled	C <sub>6</sub> -C <sub>9</sub>	C <sub>10</sub> -C <sub>14</sub>	C <sub>15</sub> -C <sub>28</sub>	C <sub>29</sub> -C <sub>36</sub>	Total C <sub>10</sub> -C <sub>36</sub>	Benzene	Toluene	Ethyl benzene	Total Xylenes		
PQL - Envirolab Services			4	0.4	1	1	1	0.1	1	1	-	0.05	0.1	0.1	0.1	0.1	0.1	25	50	100	100	50	0.2	0.5	1	1	100
General Solid Waste CT1			100	20	100	NSL	100	4	40	NSL	200	0.8	60	4	250	50	50	650	NSL			10,000	10	288	600	1,000	-
General Solid Waste SCC1			500	100	1900	NSL	1500	50	1050	NSL	200	10	108	7.5	250	50	50	650	NSL			10,000	18	518	1,080	1,800	-
Restricted Solid Waste CT2			400	80	400	NSL	400	16	160	NSL	800	3.2	240	16	1000	50	50	2600	NSL			40,000	40	1,152	2,400	4,000	-
Restricted Solid Waste SCC2			2000	400	7600	NSL	6000	200	4200	NSL	800	23	432	30	1000	50	50	2600	NSL			40,000	72	2,073	4,320	7,200	-
Sample Reference	Sample Depth	Sample Description																									
BH4	0.24-0.45	Fill: Gravelly Sand	6	0.6	13	2	9	<0.1	1	6	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<3	NA
BH4 - [LAB_DUP]	0.24-0.45	Laboratory Duplicate	<4	<0.4	6	2	5	<0.1	<1	4	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<3	NA
BH4 - [TRIPLICATE]	0.24-0.45	Laboratory Triplicate	6	0.4	10	5	10	<0.1	2	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH4	0.5-0.9	Fill: Silty Sand	<4	<0.4	8	<1	12	<0.1	2	17	<0.05	<0.05	NA	NA	NA	NA	NA	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<3	Not Detected
BH5	0.2-0.5	Fill: Silty Sand	<4	<0.4	2	1	12	<0.1	<1	10	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<3	Not Detected
BH5	0.6-0.8	Silty Clayey Sand	<4	<0.4	8	<1	10	<0.1	2	27	<0.05	<0.05	NA	NA	NA	NA	NA	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<3	NA
BH6	0.13-0.35	Fill: Silty Clay	7	0.4	18	12	12	<0.1	4	13	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<25	<50	260	160	420	<0.2	<0.5	<1	<3	Detected
BH6	0.6-0.8	Fill: Silty Sand	<4	<0.4	5	4	17	<0.1	<1	79	<0.05	<0.05	NA	NA	NA	NA	NA	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<3	NA
BH7	0.2-0.6	Fill: Silty Sand	<4	23	17	40	420	<0.1	5	11000	3	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<3	Detected
BH7 - [LAB_DUP]	0.2-0.6	Laboratory Duplicate	NA	NA	NA	NA	NA	NA	NA	NA	3.6	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH7 - [SPOIL]	0.4-0.6	Fragment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Detected
BH7	0.9-1.2	Silty Sand	<4	<0.4	<1	3	18	<0.1	<1	35	<0.05	<0.05	NA	NA	NA	NA	NA	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<3	NA
SDUP2	0.2-0.5	Duplicate of BH5	<4	<0.4	3	<1	12	<0.1	<1	11	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<3	NA
SDUP2 - [LAB_DUP]	0.2-0.5	Laboratory Duplicate	<4	<0.4	2	2	10	<0.1	<1	14	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<3	NA
SDUP4	0.2-0.6	Duplicate of BH7	<4	12	11	48	360	<0.1	7	4700	5.4	0.69	<0.1	<0.1	<0.1	<0.1	<0.1	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<1	NA
Total Number of Samples			13	13	13	13	13	13	13	13	13	13	8	8	8	8	8	12	12	12	12	12	12	12	12	12	5
Maximum Value			7	23	18	48	420	<PQL	7	11000	5.4	0.69	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	260	160	420	<PQL	<PQL	<PQL	<PQL	Detected

Concentration above the CT1  
Concentration above SCC1  
Concentration above the SCC2  
Concentration above PQL

VALUE

VALUE

VALUE

Bold

TABLE S8  
SOIL LABORATORY TCLP RESULTS  
All data in mg/L unless stated otherwise

			Arsenic	Cadmium	Chromium	Lead	Mercury	Nickel	B(a)P
PQL - Envirolab Services			0.05	0.01	0.01	0.03	0.0005	0.02	0.001
TCLP1 - General Solid Waste			5	1	5	5	0.2	2	0.04
TCLP2 - Restricted Solid Waste			20	4	20	20	0.8	8	0.16
TCLP3 - Hazardous Waste			>20	>4	>20	>20	>0.8	>8	>0.16
Sample Reference	Sample Depth	Sample Description							
BH7	0.2-0.6	Fill: Silty Sand	NA	0.09	NA	0.2	NA	NA	NA
Total Number of samples			0	1	0	1	0	0	0
Maximum Value			NA	0.09	NA	0.20	NA	NA	NA
General Solid Waste			VALUE						
Restricted Solid Waste			VALUE						
Hazardous Waste			VALUE						
Concentration above PQL			Bold						

Result outside of QA/QC acceptance criteria	
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## Appendix D: Borehole Logs







# JKGeotechnics

## BOREHOLE LOG



**Borehole No.**  
**1**  
1/1









<b>Client:</b> HANNAS CONTRACTING SERVICES PTY LTD												
<b>Project:</b> PROPOSED INDUSTRIAL DEVELOPMENT												
<b>Location:</b> 10/105 OLD PITTWATER ROAD, BROOKVALE, NSW												
<b>Job No.:</b> 34695PH			<b>Method:</b> SPIRAL AUGER				<b>R.L. Surface:</b> ≈ 14.3m					
<b>Date:</b> 22/1/22			<b>Datum:</b> AHD									
<b>Plant Type:</b> EZIPROBE			<b>Logged/Checked by:</b> B.Z./A.J.H.									
Groundwater Record	SAMPLES			Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	U50	DB									
DRY ON COMPLET- ION					0			CONCRETE: 180mm.t				NO OBSERVED REINFORCEMENT
					0.5		-	FILL: Silty sand, fine to medium grained, dark brown and grey, with fine to medium grained igneous gravel, trace of fibre cement fragments, slag and ash.	M			
					1		SM	Silty SAND: fine to medium grained, light grey.	M			ALLUVIAL
					1.5		SP	SAND: fine to medium grained, brown, with clay and silt, trace of cemented nodules.				
					2			END OF BOREHOLE AT 2.0m				
					2.5							
					3							
					3.5							

# JKGeotechnics

## BOREHOLE LOG


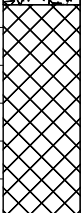
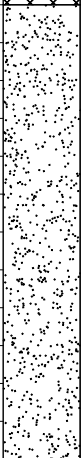


Borehole No.  
**2**  
1/1

<b>Client:</b> HANNAS CONTRACTING SERVICES PTY LTD												
<b>Project:</b> PROPOSED INDUSTRIAL DEVELOPMENT												
<b>Location:</b> 10/105 OLD PITTWATER ROAD, BROOKVALE, NSW												
<b>Job No.:</b> 34695PH <b>Method:</b> SPIRAL AUGER <b>R.L. Surface:</b> ≈ 14.5m												
<b>Date:</b> 22/1/22 <b>Datum:</b> AHD												
<b>Plant Type:</b> EZIPROBE <b>Logged/Checked by:</b> B.Z./A.J.H.												
Groundwater Record	SAMPLES			Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	U50	DB									
DRY ON COMPLET- ION					0			CONCRETE: 200mm.t				NO OBSERVED REINFORCEMENT
					0.5		-	FILL: Silty sand, fine to medium grained, dark brown, trace of fine to medium grained igneous gravel, slag and ash.	M			
					1		SP	SAND: fine to medium grained, with clay and silt, trace of fine to medium grained cemented nodules.	M			ALLUVIAL
					1.5							
					2							
					2.5							
					3			END OF BOREHOLE AT 3.0m				
					3.5							

# JKGeotechnics

## BOREHOLE LOG

<b>Client:</b> HANNAS CONTRACTING SERVICES PTY LTD													
<b>Project:</b> PROPOSED INDUSTRIAL DEVELOPMENT													
<b>Location:</b> 10/105 OLD PITTWATER ROAD, BROOKVALE, NSW													
<b>Job No.:</b> 34695PH <b>Method:</b> SPIRAL AUGER <b>R.L. Surface:</b> ≈ 14.5m													
<b>Date:</b> 22/1/22 <b>Datum:</b> AHD													
<b>Plant Type:</b> EZIPROBE <b>Logged/Checked by:</b> B.Z./A.J.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	U50	DB	DS									
DRY ON COMPLET- ION						0			CONCRETE: 240mm.t				NO OBSERVED REINFORCEMENT
						0.5		-	FILL: Gravelly sand, fine to medium grained, dark brown, fine to medium grained angular igneous and sandstone gravel, with ash and slag. FILL: Sand, fine to medium grained, dark brown, trace of fine to medium grained sandstone gravel, and ash.	M			
						1		SP	SAND: fine to medium grained, brown.	M			ALLUVIAL
						2			END OF BOREHOLE AT 2.0m				
						2.5							
						3							
						3.5							

Environmental logs are not to be used for geotechnical purposes

SDUP1: 0.5-0.9m

<div><div>Client:</div><div>HANNAS GROUP</div></div> <div><div>Project:</div><div>PROPOSED INDUSTRIAL DEVELOPEMT</div></div> <div><div>Location:</div><div>99-105 OLD PITTWATER ROAD, BROOKVALE, NSW</div></div>													
<div><div>Job No.:</div><div>E34695PR</div><div>Method:</div><div>PUSHTUBE</div><div>R.L. Surface:</div><div>N/A</div></div> <div><div>Date:</div><div>22/1/22</div><div>Datum:</div><div>-</div></div> <div><div>Plant Type:</div><div>EZIPROBE</div><div>Logged/Checked by:</div><div>C.R./B.P.</div></div>													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPLETION						0			CONCRETE: 240mm.t				
						0.5		-	FILL: Gravelly sand, fine to medium grained, dark brown, fine to medium grained, sub-angular and angular, igneous and sandstone gravel, with ash and slag, trace of glass fragments. FILL: Silty sand, fine to medium grained, brown, trace of sandstone gravel, and ash.	D			INSUFFICIENT RETURN FOR BULK SCREEN SCREEN: 4.5kg 0.45-1.0m NO FCF
						1	SM	Silty SAND: fine to medium grained, brown.	D			ALLUVIAL	
						1.5			END OF BOREHOLE AT 1.5m				
						2							
						2.5							
						3							
						3.5							

# JKEnvironments

## ENVIRONMENTAL LOG



Log No.  
**BH5**

1/1

Environmental logs are not to be used for geotechnical purposes

SDUP2: 0.2-0.5m

<b>Client:</b> HANNAS GROUP													
<b>Project:</b> PROPOSED INDUSTRIAL DEVELOPEMT													
<b>Location:</b> 99-105 OLD PITTWATER ROAD, BROOKVALE, NSW													
<b>Job No.:</b> E34695PR			<b>Method:</b> PUSHTUBE				<b>R.L. Surface:</b> N/A						
<b>Date:</b> 22/1/22			<b>Datum:</b> -										
<b>Plant Type:</b> EZIPROBE			<b>Logged/Checked by:</b> C.R./B.P.										
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPLE- TION						0			CONCRETE: 200mm.t				
						0.5		-	FILL: Silty sand, fine to medium grained, grey and orange brown, trace of igneous gravel, ash and slag.	D			SCREEN: 2.3kg 0.2-0.5m NO FCF
						1		SC	Silty Clayey SAND: fine to medium grained, brown and grey brown.	D			ALLUVIAL
						1.5		SM	Silty SAND: fine to medium grained, brown.				
						1.5			END OF BOREHOLE AT 1.5m				
						2							
						2.5							
						3							
						3.5							



Client: HANNAS GROUP

Project: PROPOSED INDUSTRIAL DEVELOPEMT

Location: 99-105 OLD PITTWATER ROAD, BROOKVALE, NSW

Job No.: E34695PR

Date: 22/1/22

Plant Type: EZIPROBE

Method: PUSHTUBE

Logged/Checked by: C.R./B.P.

R.L. Surface: N/A

Datum: -

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPLETION						0		-	CONCRETE: 130mm.t				
						0.5		-	FILL: Silty clay, medium to high plasticity, brown, trace of ash.	w<PL			SCREEN: 1.6kg 0.13-0.35m NO FCF
									D	INSUFFICIENT RETURN			
									FILL: Silty sand, fine to medium grained, dark grey, with brick fragments. FILL: Silty sand, fine to medium grained, dark brown, trace of sandstone gravel and ash.				SCREEN: 1.4kg 0.5-0.9m NO FCF
						1	SM	Silty SAND: fine to medium grained, brown.	D				ALLUVIAL
						1.5			END OF BOREHOLE AT 1.5m				
						2							
						2.5							
						3							
						3.5							

# JKEnvironments

## ENVIRONMENTAL LOG



Log No.  
**BH7**  
1/1

Environmental logs are not to be used for geotechnical purposes

SDUP4: 0.2-0.6m

<b>Client:</b> HANNAS GROUP													
<b>Project:</b> PROPOSED INDUSTRIAL DEVELOPEMT													
<b>Location:</b> 99-105 OLD PITTWATER ROAD, BROOKVALE, NSW													
<b>Job No.:</b> E34695PR			<b>Method:</b> PUSHTUBE				<b>R.L. Surface:</b> N/A						
<b>Date:</b> 22/1/22			<b>Datum:</b> -										
<b>Plant Type:</b> EZIPROBE			<b>Logged/Checked by:</b> C.R./B.P.										
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPLE- TION						0			CONCRETE: 180mm.t				
						0.5		-	FILL: Silty sand, fine to medium grained, dark grey brown, trace of igneous gravel, fibre cement fragments, ash and slag.	D			SCREEN: 3.2kg 0.18-0.7m NO FCF  BH7 SPOIL F1 0.4-0.6m
						1		SM	Silty SAND: fine to medium grained, light grey.	D			ALLUVIAL
						1.5			Silty SAND: fine to medium grained, brown.				
						1.5			END OF BOREHOLE AT 1.5m				
						2							
						2.5							
						3							
						3.5							



# ENVIRONMENTAL LOGS EXPLANATION NOTES

## INTRODUCTION

These notes have been provided to amplify the environmental report in regard to classification methods, field procedures and certain matters relating to the logging of soil and rock. Not all notes are necessarily relevant to all reports.

Where geotechnical borehole logs are utilised for environmental purpose, reference should also be made to the explanatory notes included in the geotechnical report. Environmental logs are not suitable for geotechnical purposes.

The ground is a product of continuing natural and man-made processes and therefore exhibits a variety of characteristics and properties which vary from place to place and can change with time. Environmental studies include gathering and assimilating limited facts about these characteristics and properties in order to understand or predict the behaviour of the ground on a particular site under certain conditions. This report may contain such facts obtained by inspection, excavation, probing, sampling, testing or other means of investigation. If so, they are directly relevant only to the ground at the place where and time when the investigation was carried out.

## DESCRIPTION AND CLASSIFICATION METHODS

The methods of description and classification of soils and rocks used in this report are based on Australian Standard 1726:2017 'Geotechnical Site Investigations'. In general, descriptions cover the following properties – soil or rock type, colour, structure, strength or density, and inclusions. Identification and classification of soil and rock involves judgement and the Company infers accuracy only to the extent that is common in current geoenvironmental practice.

Soil types are described according to the predominating particle size and behaviour as set out in the attached soil classification table qualified by the grading of other particles present (eg. sandy clay) as set out below:

Soil Classification	Particle Size
Clay	< 0.002mm
Silt	0.002 to 0.075mm
Sand	0.075 to 2.36mm
Gravel	2.36 to 63mm
Cobbles	63 to 200mm
Boulders	> 200mm

Non-cohesive soils are classified on the basis of relative density, generally from the results of Standard Penetration Test (SPT) as below:

Relative Density	SPT 'N' Value (blows/300mm)
Very loose (VL)	< 4
Loose (L)	4 to 10
Medium dense (MD)	10 to 30
Dense (D)	30 to 50
Very Dense (VD)	> 50

Cohesive soils are classified on the basis of strength (consistency) either by use of a hand penetrometer, vane shear, laboratory testing and/or tactile engineering examination. The strength terms are defined as follows.

Classification	Unconfined Compressive Strength (kPa)	Indicative Undrained Shear Strength (kPa)
Very Soft (VS)	≤ 25	≤ 12
Soft (S)	> 25 and ≤ 50	> 12 and ≤ 25
Firm (F)	> 50 and ≤ 100	> 25 and ≤ 50
Stiff (St)	> 100 and ≤ 200	> 50 and ≤ 100
Very Stiff (VSt)	> 200 and ≤ 400	> 100 and ≤ 200
Hard (Hd)	> 400	> 200
Friable (Fr)	Strength not attainable – soil crumbles	

Rock types are classified by their geological names, together with descriptive terms regarding weathering, strength, defects, etc. Where relevant, further information regarding rock classification is given in the text of the report. In the Sydney Basin, 'shale' is used to describe fissile mudstone, with a weakness parallel to bedding. Rocks with alternating inter-laminations of different grain size (eg. siltstone/claystone and siltstone/fine grained sandstone) are referred to as 'laminite'.

## INVESTIGATION METHODS

The following is a brief summary of investigation methods currently adopted by the Company and some comments on their use and application. All methods except test pits, hand auger drilling and portable Dynamic Cone Penetrometers require the use of a mechanical rig which is commonly mounted on a truck chassis or track base.

**Test Pits:** These are normally excavated with a backhoe or a tracked excavator, allowing close examination of the insitu soils and 'weaker' bedrock if it is safe to descend into the pit. The depth of penetration is limited to about 3m for a backhoe and up to 6m for a large excavator. Limitations of test pits are the problems associated with disturbance and difficulty of reinstatement and the consequent effects on close-by structures. Care must be taken if construction is to be carried out near test pit locations to either properly recompact the backfill during construction or to design and construct the

structure so as not to be adversely affected by poorly compacted backfill at the test pit location.

**Hand Auger Drilling:** A borehole of 50mm to 100mm diameter is advanced by manually operated equipment. Refusal of the hand auger can occur on a variety of materials such as obstructions within any fill, tree roots, hard clay, gravel or ironstone, cobbles and boulders, and does not necessarily indicate rock level.

**Continuous Spiral Flight Augers:** The borehole is advanced using 75mm to 115mm diameter continuous spiral flight augers, which are withdrawn at intervals to allow sampling and insitu testing. This is a relatively economical means of drilling in clays and in sands above the water table. Samples are returned to the surface by the flights or may be collected after withdrawal of the auger flights, but they can be very disturbed and layers may become mixed. Information from the auger sampling (as distinct from specific sampling by SPTs or undisturbed samples) is of limited reliability due to mixing or softening of samples by groundwater, or uncertainties as to the original depth of the samples. Augering below the groundwater table is of even lesser reliability than augering above the water table.

**Rock Augering:** Use can be made of a Tungsten Carbide (TC) bit for auger drilling into rock to indicate rock quality and continuity by variation in drilling resistance and from examination of recovered rock cuttings. This method of investigation is quick and relatively inexpensive but provides only an indication of the likely rock strength and predicted values may be in error by a strength order. Where rock strengths may have a significant impact on construction feasibility or costs, then further investigation by means of cored boreholes may be warranted.

**Wash Boring:** The borehole is usually advanced by a rotary bit, with water being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be assessed from the cuttings, together with some information from “feel” and rate of penetration.

**Mud Stabilised Drilling:** Either Wash Boring or Continuous Core Drilling can use drilling mud as a circulating fluid to stabilise the borehole. The term ‘mud’ encompasses a range of products ranging from bentonite to polymers. The mud tends to mask the cuttings and reliable identification is only possible from intermittent intact sampling (eg. from SPT and U50 samples) or from rock coring, etc.

**Continuous Core Drilling:** A continuous core sample is obtained using a diamond tipped core barrel. Provided full core recovery is achieved (which is not always possible in very low strength rocks and granular soils), this technique provides a very reliable (but relatively expensive) method of investigation. In rocks, NMLC or HQ triple tube core barrels, which give a core of about 50mm and 61mm diameter, respectively, is usually used with water flush. The length of core recovered is compared to the length drilled and any length not recovered is shown as NO CORE. The location of NO CORE recovery is determined on site by the supervising engineer; where the location is uncertain, the loss is placed at the bottom of the drill run.

**Standard Penetration Tests:** Standard Penetration Tests (SPT) are used mainly in non-cohesive soils, but can also be used in cohesive soils, as a means of indicating density or strength and also of obtaining a relatively undisturbed sample. The test procedure is

described in Australian Standard 1289.6.3.1–2004 (R2016) ‘*Methods of Testing Soils for Engineering Purposes, Soil Strength and Consolidation Tests – Determination of the Penetration Resistance of a Soil – Standard Penetration Test (SPT)*’.

The test is carried out in a borehole by driving a 50mm diameter split sample tube with a tapered shoe, under the impact of a 63.5kg hammer with a free fall of 760mm. It is normal for the tube to be driven in three successive 150mm increments and the ‘N’ value is taken as the number of blows for the last 300mm. In dense sands, very hard clays or weak rock, the full 450mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form:

- In the case where full penetration is obtained with successive blow counts for each 150mm of, say, 4, 6 and 7 blows, as

N = 13  
4, 6, 7

- In a case where the test is discontinued short of full penetration, say after 15 blows for the first 150mm and 30 blows for the next 40mm, as

N > 30  
15, 30/40mm

The results of the test can be related empirically to the engineering properties of the soil.

A modification to the SPT is where the same driving system is used with a solid 60° tipped steel cone of the same diameter as the SPT hollow sampler. The solid cone can be continuously driven for some distance in soft clays or loose sands, or may be used where damage would otherwise occur to the SPT. The results of this Solid Cone Penetration Test (SCPT) are shown as ‘N<sub>c</sub>’ on the borehole logs, together with the number of blows per 150mm penetration.

## LOGS

The borehole or test pit logs presented herein are an interpretation of the subsurface conditions, and their reliability will depend to some extent on the frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will enable the most reliable assessment, but is not always practicable or possible to justify on economic grounds. In any case, the boreholes or test pits represent only a very small sample of the total subsurface conditions.

The terms and symbols used in preparation of the logs are defined in the following pages.

Interpretation of the information shown on the logs, and its application to design and construction, should therefore take into account the spacing of boreholes or test pits, the method of drilling or excavation, the frequency of sampling and testing and the possibility of other than ‘straight line’ variations between the boreholes or test pits. Subsurface conditions between boreholes or test pits may vary significantly from conditions encountered at the borehole or test pit locations.

## GROUNDWATER

Where groundwater levels are measured in boreholes, there are several potential problems:

- Although groundwater may be present, in low permeability soils it may enter the hole slowly or perhaps not at all during the time it is left open.
- A localised perched water table may lead to an erroneous indication of the true water table.
- Water table levels will vary from time to time with seasons or recent weather changes and may not be the same at the time of construction.
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must be washed out of the hole or 'reverted' chemically if reliable water observations are to be made.

More reliable measurements can be made by installing standpipes which are read after the groundwater level has stabilised at intervals ranging from several days to perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from perched water tables or surface water.

## FILL

The presence of fill materials can often be determined only by the inclusion of foreign objects (eg. bricks, steel, etc) or by distinctly unusual colour, texture or fabric. Identification of the extent of fill materials will also depend on investigation methods and frequency. Where natural soils similar to those at the site are used for fill, it may be difficult with limited testing and sampling to reliably assess the extent of the fill.

The presence of fill materials is usually regarded with caution as the possible variation in density and material type is much greater than with natural soil deposits. Consequently, there is an increased risk of adverse environmental characteristics or behaviour. If the volume and nature of fill is of importance to a project, then frequent test pit excavations are preferable to boreholes.

## LABORATORY TESTING

Laboratory testing has not been undertaken to confirm the soil classification and rock strengths indicated on the environmental logs unless noted in the report.



## SYMBOL LEGENDS

### SOIL



FILL



TOPSOIL



CLAY (CL, CI, CH)



SILT (ML, MH)



SAND (SP, SW)



GRAVEL (GP, GW)



SANDY CLAY (CL, CI, CH)



SILTY CLAY (CL, CI, CH)



CLAYEY SAND (SC)



SILTY SAND (SM)



GRAVELLY CLAY (CL, CI, CH)



CLAYEY GRAVEL (GC)



SANDY SILT (ML, MH)



PEAT AND HIGHLY ORGANIC SOILS (Pt)

### ROCK



CONGLOMERATE



SANDSTONE



SHALE/MUDSTONE



SILTSTONE



CLAYSTONE



COAL



LAMINITE



LIMESTONE



PHYLLITE, SCHIST



TUFF



GRANITE, GABBRO



DOLERITE, DIORITE



BASALT, ANDESITE



QUARTZITE

### OTHER MATERIALS



BRICKS OR PAVERS



CONCRETE



ASPHALTIC CONCRETE

## CLASSIFICATION OF COARSE AND FINE GRAINED SOILS

Major Divisions		Group Symbol	Typical Names	Field Classification of Sand and Gravel	Laboratory Classification	
Coarse grained soil (more than 60% of soil excluding oversize fraction is greater than 0.075mm)	GRAVEL (more than half of coarse fraction is larger than 2.36mm)	GW	Gravel and gravel-sand mixtures, little or no fines	Wide range in grain size and substantial amounts of all intermediate sizes, not enough fines to bind coarse grains, no dry strength	≤ 5% fines	$C_u > 4$ $1 < C_c < 3$
		GP	Gravel and gravel-sand mixtures, little or no fines, uniform gravels	Predominantly one size or range of sizes with some intermediate sizes missing, not enough fines to bind coarse grains, no dry strength	≤ 5% fines	Fails to comply with above
		GM	Gravel-silt mixtures and gravel-sand-silt mixtures	‘Dirty’ materials with excess of non-plastic fines, zero to medium dry strength	≥ 12% fines, fines are silty	Fines behave as silt
		GC	Gravel-clay mixtures and gravel-sand-clay mixtures	‘Dirty’ materials with excess of plastic fines, medium to high dry strength	≥ 12% fines, fines are clayey	Fines behave as clay
	SAND (more than half of coarse fraction is smaller than 2.36mm)	SW	Sand and gravel-sand mixtures, little or no fines	Wide range in grain size and substantial amounts of all intermediate sizes, not enough fines to bind coarse grains, no dry strength	≤ 5% fines	$C_u > 6$ $1 < C_c < 3$
		SP	Sand and gravel-sand mixtures, little or no fines	Predominantly one size or range of sizes with some intermediate sizes missing, not enough fines to bind coarse grains, no dry strength	≤ 5% fines	Fails to comply with above
		SM	Sand-silt mixtures	‘Dirty’ materials with excess of non-plastic fines, zero to medium dry strength	≥ 12% fines, fines are silty	N/A
		SC	Sand-clay mixtures	‘Dirty’ materials with excess of plastic fines, medium to high dry strength	≥ 12% fines, fines are clayey	

### Laboratory Classification Criteria

A well graded coarse grained soil is one for which the coefficient of uniformity  $C_u > 4$  and the coefficient of curvature  $1 < C_c < 3$ . Otherwise, the soil is poorly graded. These coefficients are given by:

$$C_u = \frac{D_{60}}{D_{10}} \quad \text{and} \quad C_c = \frac{(D_{30})^2}{D_{10} D_{60}}$$

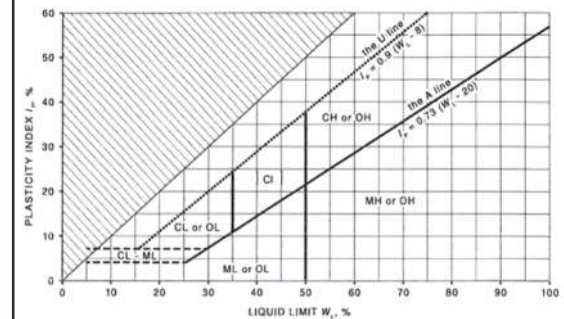
Where  $D_{10}$ ,  $D_{30}$  and  $D_{60}$  are those grain sizes for which 10%, 30% and 60% of the soil grains, respectively, are smaller.

### NOTES:

- For a coarse grained soil with a fines content between 5% and 12%, the soil is given a dual classification comprising the two group symbols separated by a dash; for example, for a poorly graded gravel with between 5% and 12% silt fines, the classification is GP-GM.
- Where the grading is determined from laboratory tests, it is defined by coefficients of curvature ( $C_c$ ) and uniformity ( $C_u$ ) derived from the particle size distribution curve.
- Clay soils with liquid limits  $> 35\%$  and  $\leq 50\%$  may be classified as being of medium plasticity.
- The U line on the Modified Casagrande Chart is an approximate upper bound for most natural soils.

Major Divisions		Group Symbol	Typical Names	Field Classification of Silt and Clay			Laboratory Classification
				Dry Strength	Dilatancy	Toughness	% < 0.075mm
fine grained soils (more than 35% of soil excluding oversize fraction is less than 0.075mm)	SILT and CLAY (low to medium plasticity)	ML	Inorganic silt and very fine sand, rock flour, silty or clayey fine sand or silt with low plasticity	None to low	Slow to rapid	Low	Below A line
		CL, CI	Inorganic clay of low to medium plasticity, gravelly clay, sandy clay	Medium to high	None to slow	Medium	Above A line
		OL	Organic silt	Low to medium	Slow	Low	Below A line
	SILT and CLAY (high plasticity)	MH	Inorganic silt	Low to medium	None to slow	Low to medium	Below A line
		CH	Inorganic clay of high plasticity	High to very high	None	High	Above A line
		OH	Organic clay of medium to high plasticity, organic silt	Medium to high	None to very slow	Low to medium	Below A line
	Highly organic soil	Pt	Peat, highly organic soil	–	–	–	–

### Modified Casagrande Chart for Classifying Silts and Clays according to their Behaviour





## LOG SYMBOLS

Log Column	Symbol	Definition		
Groundwater Record		Standing water level. Time delay following completion of drilling/excavation may be shown.		
		Extent of borehole/test pit collapse shortly after drilling/excavation.		
		Groundwater seepage into borehole or test pit noted during drilling or excavation.		
Samples	ES	Sample taken over depth indicated, for environmental analysis.		
	U50	Undisturbed 50mm diameter tube sample taken over depth indicated.		
	DB	Bulk disturbed sample taken over depth indicated.		
	DS	Small disturbed bag sample taken over depth indicated.		
	ASB	Soil sample taken over depth indicated, for asbestos analysis.		
	ASS	Soil sample taken over depth indicated, for acid sulfate soil analysis.		
	SAL	Soil sample taken over depth indicated, for salinity analysis.		
	PFAS	Soil sample taken over depth indicated, for analysis of Per- and Polyfluoroalkyl Substances.		
Field Tests	N = 17 4, 7, 10	Standard Penetration Test (SPT) performed between depths indicated by lines. Individual figures show blows per 150mm penetration. ‘Refusal’ refers to apparent hammer refusal within the corresponding 150mm depth increment.		
	N <sub>c</sub> =	5	Solid Cone Penetration Test (SCPT) performed between depths indicated by lines. Individual figures show blows per 150mm penetration for 60° solid cone driven by SPT hammer. ‘R’ refers to apparent hammer refusal within the corresponding 150mm depth increment.	
		7		
		3R		
	VNS = 25 PID = 100	Vane shear reading in kPa of undrained shear strength. Photoionisation detector reading in ppm (soil sample headspace test).		
Moisture Condition (Fine Grained Soils)  (Coarse Grained Soils)	w > PL	Moisture content estimated to be greater than plastic limit.		
	w ≈ PL	Moisture content estimated to be approximately equal to plastic limit.		
	w < PL	Moisture content estimated to be less than plastic limit.		
	w ≈ LL	Moisture content estimated to be near liquid limit.		
	w > LL	Moisture content estimated to be wet of liquid limit.		
	D	DRY – runs freely through fingers.		
	M	MOIST – does not run freely but no free water visible on soil surface.		
W	WET – free water visible on soil surface.			
Strength (Consistency) Cohesive Soils	VS	VERY SOFT – unconfined compressive strength ≤ 25kPa.		
	S	SOFT – unconfined compressive strength > 25kPa and ≤ 50kPa.		
	F	FIRM – unconfined compressive strength > 50kPa and ≤ 100kPa.		
	St	STIFF – unconfined compressive strength > 100kPa and ≤ 200kPa.		
	VSt	VERY STIFF – unconfined compressive strength > 200kPa and ≤ 400kPa.		
	Hd	HARD – unconfined compressive strength > 400kPa.		
	Fr	FRIABLE – strength not attainable, soil crumbles.		
	( )	Bracketed symbol indicates estimated consistency based on tactile examination or other assessment.		
Density Index/ Relative Density (Cohesionless Soils)		<b>Density Index (I<sub>D</sub>) Range (%)</b>	<b>SPT ‘N’ Value Range (Blows/300mm)</b>	
	VL	VERY LOOSE	≤ 15	0 – 4
	L	LOOSE	> 15 and ≤ 35	4 – 10
	MD	MEDIUM DENSE	> 35 and ≤ 65	10 – 30
	D	DENSE	> 65 and ≤ 85	30 – 50
	VD	VERY DENSE	> 85	> 50
	( )	Bracketed symbol indicates estimated density based on ease of drilling or other assessment.		



Log Column	Symbol	Definition
Hand Penetrometer Readings	300 250	Measures reading in kPa of unconfined compressive strength. Numbers indicate individual test results on representative undisturbed material unless noted otherwise.
Remarks	'V' bit 'TC' bit $T_{60}$ Soil Origin	<p>Hardened steel 'V' shaped bit.</p> <p>Twin pronged tungsten carbide bit.</p> <p>Penetration of auger string in mm under static load of rig applied by drill head hydraulics without rotation of augers.</p> <p>The geological origin of the soil can generally be described as:</p> <p>RESIDUAL – soil formed directly from insitu weathering of the underlying rock. No visible structure or fabric of the parent rock.</p> <p>EXTREMELY WEATHERED – soil formed directly from insitu weathering of the underlying rock. Material is of soil strength but retains the structure and/or fabric of the parent rock.</p> <p>ALLUVIAL – soil deposited by creeks and rivers.</p> <p>ESTUARINE – soil deposited in coastal estuaries, including sediments caused by inflowing creeks and rivers, and tidal currents.</p> <p>MARINE – soil deposited in a marine environment.</p> <p>AEOLIAN – soil carried and deposited by wind.</p> <p>COLLUVIAL – soil and rock debris transported downslope by gravity, with or without the assistance of flowing water. Colluvium is usually a thick deposit formed from a landslide. The description 'slopewash' is used for thinner surficial deposits.</p> <p>LITTORAL – beach deposited soil.</p>

## Classification of Material Weathering

Term		Abbreviation		Definition
Residual Soil		RS		Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are no longer visible, but the soil has not been significantly transported.
Extremely Weathered		XW		Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are still visible.
Highly Weathered	Distinctly Weathered (Note 1)	HW	DW	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is significantly changed by weathering. Some primary minerals have weathered to clay minerals. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores.
Moderately Weathered		MW		The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable, but shows little or no change of strength from fresh rock.
Slightly Weathered		SW		Rock is partially discoloured with staining or bleaching along joints but shows little or no change of strength from fresh rock.
Fresh		FR		Rock shows no sign of decomposition of individual minerals or colour changes.

**NOTE 1:** The term 'Distinctly Weathered' is used where it is not practicable to distinguish between 'Highly Weathered' and 'Moderately Weathered' rock. 'Distinctly Weathered' is defined as follows: 'Rock strength usually changed by weathering. The rock may be highly discoloured, usually by iron staining. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores'. There is some change in rock strength.

## Rock Material Strength Classification

Term	Abbreviation	Uniaxial Compressive Strength (MPa)	Guide to Strength	
			Point Load Strength Index $Is_{(50)}$ (MPa)	Field Assessment
Very Low Strength	VL	0.6 to 2	0.03 to 0.1	Material crumbles under firm blows with sharp end of pick; can be peeled with knife; too hard to cut a triaxial sample by hand. Pieces up to 30mm thick can be broken by finger pressure.
Low Strength	L	2 to 6	0.1 to 0.3	Easily scored with a knife; indentations 1mm to 3mm show in the specimen with firm blows of the pick point; has dull sound under hammer. A piece of core 150mm long by 50mm diameter may be broken by hand. Sharp edges of core may be friable and break during handling.
Medium Strength	M	6 to 20	0.3 to 1	Scored with a knife; a piece of core 150mm long by 50mm diameter can be broken by hand with difficulty.
High Strength	H	20 to 60	1 to 3	A piece of core 150mm long by 50mm diameter cannot be broken by hand but can be broken by a pick with a single firm blow; rock rings under hammer.
Very High Strength	VH	60 to 200	3 to 10	Hand specimen breaks with pick after more than one blow; rock rings under hammer.
Extremely High Strength	EH	> 200	> 10	Specimen requires many blows with geological pick to break through intact material; rock rings under hammer.





## **Appendix E: Laboratory Reports & COC Documents**

## CERTIFICATE OF ANALYSIS 287219

### Client Details

<b>Client</b>	JK Environments
<b>Attention</b>	C Ridley
<b>Address</b>	PO Box 976, North Ryde BC, NSW, 1670

### Sample Details

<b>Your Reference</b>	<u>E34695PR, Brookvale</u>
<b>Number of Samples</b>	18 Soil, 1 Material
<b>Date samples received</b>	24/01/2022
<b>Date completed instructions received</b>	24/01/2022

### 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

<b>Date results requested by</b>	01/02/2022
<b>Date of Issue</b>	01/02/2022
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. <b>Tests not covered by NATA are denoted with *</b>	

#### Asbestos Approved By

Analysed by Asbestos Approved Analyst: Nyovan Moonean, Wonnie Condos

Authorised by Asbestos Approved Signatory: Lucy Zhu

#### Results Approved By

Dragana Tomas, Senior Chemist  
 Hannah Nguyen, Metals Supervisor  
 Liam Timmins, Chemist  
 Lucy Zhu, Asbestos Supervisor  
 Steven Luong, Organics Supervisor

#### Authorised By



Nancy Zhang, Laboratory Manager

## vTRH(C6-C10)/BTEXN in Soil

Our Reference		287219-1	287219-2	287219-4	287219-5	287219-7
Your Reference	UNITS	BH4	BH4	BH5	BH5	BH6
Depth		0.24-0.45	0.5-0.9	0.2-0.5	0.6-0.8	0.13-0.35
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
TRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25	<25	<25	<25
TRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	<25	<25	<25	<25	<25
vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	86	89	94	84	85

## vTRH(C6-C10)/BTEXN in Soil

Our Reference		287219-8	287219-11	287219-12	287219-16	287219-18
Your Reference	UNITS	BH6	BH7	BH7	SDUP2	TB-S1
Depth		0.6-0.8	0.2-0.6	0.9-1.2	-	-
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
TRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25	<25	<25	[NA]
TRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	<25	<25	<25	<25	[NA]
vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	[NA]
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	84	90	94	87	78

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		287219-19
Your Reference	UNITS	TS-S1
Depth		-
Date Sampled		21/01/2022
Type of sample		Soil
Date extracted	-	25/01/2022
Date analysed	-	25/01/2022
Benzene	mg/kg	106%
Toluene	mg/kg	106%
Ethylbenzene	mg/kg	105%
m+p-xylene	mg/kg	106%
o-Xylene	mg/kg	106%
Naphthalene	mg/kg	[NT]
Total +ve Xylenes	mg/kg	[NT]
Surrogate aaa-Trifluorotoluene	%	83

svTRH (C10-C40) in Soil						
Our Reference	UNITS	287219-1	287219-2	287219-4	287219-5	287219-7
Your Reference		BH4	BH4	BH5	BH5	BH6
Depth		0.24-0.45	0.5-0.9	0.2-0.5	0.6-0.8	0.13-0.35
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	27/01/2022
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	<100	<100	<100	<100	260
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	<100	<100	<100	<100	160
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	410
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	<50	<50	<50	<50	54
TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	54
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	<100	<100	<100	<100	330
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	380
Surrogate o-Terphenyl	%	77	74	77	72	87

svTRH (C10-C40) in Soil					
Our Reference	UNITS	287219-8	287219-11	287219-12	287219-16
Your Reference		BH6	BH7	BH7	SDUP2
Depth		0.6-0.8	0.2-0.6	0.9-1.2	-
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	<50	<50	<50	<50
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	<100	<100	<100	<100
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	<50	<50	<50	<50
TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2)	mg/kg	<50	<50	<50	<50
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	<100	<100	<100	<100
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50
Surrogate o-Terphenyl	%	76	75	73	83



PAHs in Soil						
Our Reference		287219-1	287219-2	287219-4	287219-5	287219-7
Your Reference	UNITS	BH4	BH4	BH5	BH5	BH6
Depth		0.24-0.45	0.5-0.9	0.2-0.5	0.6-0.8	0.13-0.35
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	85	86	85	80	75

PAHs in Soil					
Our Reference		287219-8	287219-11	287219-12	287219-16
Your Reference	UNITS	BH6	BH7	BH7	SDUP2
Depth		0.6-0.8	0.2-0.6	0.9-1.2	-
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.2	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.5	<0.1	<0.1
Pyrene	mg/kg	<0.1	0.5	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.2	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.3	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.5	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.3	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.2	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.3	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	3.0	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	0.5	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	79	79	83	83

Organochlorine Pesticides in soil						
Our Reference	UNITS	287219-1	287219-4	287219-7	287219-11	287219-16
Your Reference		BH4	BH5	BH6	BH7	SDUP2
Depth		0.24-0.45	0.2-0.5	0.13-0.35	0.2-0.6	-
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	86	86	80	81	78

## Organophosphorus Pesticides in Soil

Our Reference		287219-1	287219-4	287219-7	287219-11	287219-16
Your Reference	UNITS	BH4	BH5	BH6	BH7	SDUP2
Depth		0.24-0.45	0.2-0.5	0.13-0.35	0.2-0.6	-
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	86	86	80	81	78

PCBs in Soil						
Our Reference		287219-1	287219-4	287219-7	287219-11	287219-16
Your Reference	UNITS	BH4	BH5	BH6	BH7	SDUP2
Depth		0.24-0.45	0.2-0.5	0.13-0.35	0.2-0.6	-
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	86	86	80	81	78



## Acid Extractable metals in soil

Our Reference		287219-1	287219-2	287219-4	287219-5	287219-7
Your Reference	UNITS	BH4	BH4	BH5	BH5	BH6
Depth		0.24-0.45	0.5-0.9	0.2-0.5	0.6-0.8	0.13-0.35
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Arsenic	mg/kg	6	<4	<4	<4	7
Cadmium	mg/kg	0.6	<0.4	<0.4	<0.4	0.4
Chromium	mg/kg	13	8	2	8	18
Copper	mg/kg	2	<1	1	<1	12
Lead	mg/kg	9	12	12	10	12
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	1	2	<1	2	4
Zinc	mg/kg	6	17	10	27	13

## Acid Extractable metals in soil

Our Reference		287219-8	287219-11	287219-12	287219-16	287219-20
Your Reference	UNITS	BH6	BH7	BH7	SDUP2	BH4 - [TRIPLICATE]
Depth		0.6-0.8	0.2-0.6	0.9-1.2	-	0.24-0.45
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Arsenic	mg/kg	<4	<4	<4	<4	6
Cadmium	mg/kg	<0.4	23	<0.4	<0.4	0.4
Chromium	mg/kg	5	17	<1	3	10
Copper	mg/kg	4	40	3	<1	5
Lead	mg/kg	17	420	18	12	10
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	5	<1	<1	2
Zinc	mg/kg	79	11,000	35	11	11

Moisture						
Our Reference	UNITS	287219-1	287219-2	287219-4	287219-5	287219-7
Your Reference		BH4	BH4	BH5	BH5	BH6
Depth		0.24-0.45	0.5-0.9	0.2-0.5	0.6-0.8	0.13-0.35
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	27/01/2022	27/01/2022	27/01/2022	27/01/2022	27/01/2022
Moisture	%	3.7	13	9.2	12	16

Moisture					
Our Reference	UNITS	287219-8	287219-11	287219-12	287219-16
Your Reference		BH6	BH7	BH7	SDUP2
Depth		0.6-0.8	0.2-0.6	0.9-1.2	-
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Date analysed	-	27/01/2022	27/01/2022	27/01/2022	27/01/2022
Moisture	%	7.6	23	5.5	8.1

## Asbestos ID - soils NEPM - ASB-001

Our Reference		287219-2	287219-4	287219-7	287219-11
Your Reference	UNITS	BH4	BH5	BH6	BH7
Depth		0.5-0.9	0.2-0.5	0.13-0.35	0.2-0.6
Date Sampled		22/01/2022	22/01/2022	22/01/2022	22/01/2022
Type of sample		Soil	Soil	Soil	Soil
Date analysed	-	31/01/2022	31/01/2022	31/01/2022	31/01/2022
Sample mass tested	g	618.59	827.59	562.7	570.32
Sample Description	-	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained 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	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	No asbestos detected	No asbestos detected
Total Asbestos <sup>#1</sup>	g/kg	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	Chrysotile	Chrysotile Amosite
ACM >7mm Estimation*	g	—	—	—	0.0383
FA and AF Estimation*	g	—	—	0.0125	0.0136
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	0.0022	0.0024

Asbestos ID - materials		
Our Reference		287219-14
Your Reference	UNITS	BH7 Spoil F1
Depth		0.4-0.6
Date Sampled		22/01/2022
Type of sample		Material
Date analysed	-	01/02/2022
Mass / Dimension of Sample	-	60x30x4mm
Sample Description	-	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected  Amosite asbestos detected  Crocidolite asbestos detected
Trace Analysis	-	[NT]

Method ID	Methodology Summary
<b>ASB-001</b>	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.
<b>ASB-001</b>	<p>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.</p> <p>Results reported denoted with * are outside our scope of NATA accreditation.</p> <p><b>NOTE #1</b> Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM &gt;7mm, &lt;7mm and FA/AF)</p> <p><b>NOTE #2</b> 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.</p> <p>Estimation = Estimated asbestos weight</p> <p>Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.</p>
<b>Inorg-008</b>	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
<b>Metals-020</b>	Determination of various metals by ICP-AES.
<b>Metals-021</b>	Determination of Mercury by Cold Vapour AAS.
<b>Org-020</b>	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.</p> <p>F2 = (&gt;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.</p>
<b>Org-020</b>	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.</p> <p>F2 = (&gt;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.</p> <p>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 (&gt;C10-C40).</p>
<b>Org-021</b>	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.



Method ID	Methodology Summary
<b>Org-021</b>	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. 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.
<b>Org-022</b>	Determination of VOCs sampled onto coconut shell charcoal sorbent tubes, that can be desorbed using carbon disulphide, and analysed by GC-MS.
<b>Org-022/025</b>	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
<b>Org-022/025</b>	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.
<b>Org-022/025</b>	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.
<b>Org-023</b>	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
<b>Org-023</b>	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
<b>Org-023</b>	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	287219-4
Date extracted	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
Date analysed	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
TRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	25	Org-023	<25	1	<25	<25	0	88	86
TRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	25	Org-023	<25	1	<25	<25	0	88	86
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	79	80
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	82	82
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	94	93
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	92	88
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	87	87
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	93	1	86	87	1	87	83

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
Date analysed	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
TRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	25	Org-023	[NT]	16	<25	<25	0	[NT]	[NT]
TRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	25	Org-023	[NT]	16	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	16	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	16	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	16	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	16	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	16	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	16	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	16	87	87	0	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	287219-4
Date extracted	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
Date analysed	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	50	Org-020	<50	1	<50	<50	0	85	77
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-020	<100	1	<100	<100	0	70	71
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	100	Org-020	<100	1	<100	<100	0	91	94
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	50	Org-020	<50	1	<50	<50	0	85	77
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	100	Org-020	<100	1	<100	<100	0	70	71
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	100	Org-020	<100	1	<100	<100	0	91	94
Surrogate o-Terphenyl	%		Org-020	77	1	77	78	1	98	95

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
Date analysed	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	50	Org-020	[NT]	16	<50	<50	0	[NT]	[NT]
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-020	[NT]	16	<100	<100	0	[NT]	[NT]
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	100	Org-020	[NT]	16	<100	<100	0	[NT]	[NT]
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	50	Org-020	[NT]	16	<50	<50	0	[NT]	[NT]
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	100	Org-020	[NT]	16	<100	<100	0	[NT]	[NT]
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	100	Org-020	[NT]	16	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	16	83	80	4	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	287219-4
Date extracted	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
Date analysed	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	101	84
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	101	87
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	105	92
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	108	92
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	98	84
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	101	89
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	69	71
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	112	106
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	93	1	85	86	1	96	82

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	11	25/01/2022	25/01/2022		[NT]	[NT]
Date analysed	-			[NT]	11	25/01/2022	25/01/2022		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	11	0.2	0.1	67	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	11	0.5	0.6	18	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	11	0.5	0.6	18	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	11	0.2	0.3	40	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	11	0.3	0.3	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	11	0.5	0.8	46	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	11	0.3	0.3	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	11	0.2	0.2	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	11	0.3	0.3	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	11	79	117	39	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
Date analysed	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	16	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	16	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	16	83	79	5	[NT]	[NT]



QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	287219-4
Date extracted	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
Date analysed	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	90
HCB	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	89
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	105	91
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	113	99
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	90
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	105	88
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	90
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	88
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	90
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	78	66
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	89	1	86	82	5	97	85

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
Date analysed	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	16	78	83	6	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	287219-4
Date extracted	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
Date analysed	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	103	86
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	112	95
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	109	87
Malathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	108	81
Chlorpyrifos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	108	94
Parathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	105	91
Bromophos-ethyl	mg/kg	0.1	Org-022	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	86
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	89	1	86	82	5	97	85

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
Date analysed	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	16	78	83	6	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	287219-4
Date extracted	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
Date analysed	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	111	80
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	89	1	86	82	5	97	85

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
Date analysed	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	16	78	83	6	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	287219-4
Date prepared	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
Date analysed	-			25/01/2022	1	25/01/2022	25/01/2022		25/01/2022	25/01/2022
Arsenic	mg/kg	4	Metals-020	<4	1	6	<4	40	104	107
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	0.6	<0.4	40	98	96
Chromium	mg/kg	1	Metals-020	<1	1	13	6	74	96	99
Copper	mg/kg	1	Metals-020	<1	1	2	2	0	93	100
Lead	mg/kg	1	Metals-020	<1	1	9	5	57	95	97
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	113	120
Nickel	mg/kg	1	Metals-020	<1	1	1	<1	0	91	90
Zinc	mg/kg	1	Metals-020	<1	1	6	4	40	102	106

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
Date analysed	-			[NT]	16	25/01/2022	25/01/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	16	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	16	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	16	3	2	40	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	16	<1	2	67	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	16	12	10	18	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	16	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	16	<1	<1	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	16	11	14	24	[NT]	[NT]

**Result Definitions**

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



## Quality Control Definitions

<b>Blank</b>	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.
<b>Duplicate</b>	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.
<b>Matrix Spike</b>	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.
<b>LCS (Laboratory Control Sample)</b>	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.
<b>Surrogate Spike</b>	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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

## 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.

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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

## Report Comments

### OP\_S:

The PQL has been raised due to interferences from analytes (other than those being tested) in sample/s 287219-7.

Acid Extractable Metals in Soil: The laboratory RPD acceptance criteria has been exceeded for 287219-1 for Cr and Pb. Therefore a triplicate result has been issued as laboratory sample number 287219-20.

### 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.

### Factual description of asbestos identified in the soil samples: NEPM

Sample 287219-7; Chrysotile asbestos identified in 0.0208g of fibrous matted material

Sample 287219-11; Chrysotile and Amosite asbestos identified in 0.2552g of fibre cement material >7mm

Sample 287219-11; Chrysotile and Amosite asbestos identified in 0.0170g of fibrous matted material

## SAMPLE RECEIPT ADVICE

### Client Details

<b>Client</b>	JK Environments
<b>Attention</b>	C Ridley

### Sample Login Details

<b>Your reference</b>	E34695PR, Brookvale
<b>Envirolab Reference</b>	287219
<b>Date Sample Received</b>	24/01/2022
<b>Date Instructions Received</b>	24/01/2022
<b>Date Results Expected to be Reported</b>	01/02/2022

### Sample Condition

<b>Samples received in appropriate condition for analysis</b>	Yes
<b>No. of Samples Provided</b>	18 Soil, 1 Material
<b>Turnaround Time Requested</b>	Standard
<b>Temperature on Receipt (°C)</b>	13
<b>Cooling Method</b>	Ice Pack
<b>Sampling Date Provided</b>	YES

### Comments

Sample #15- Lid labelled "SDUP 1", jar body labelled "BH4 0.5-0.9" - went off by lid.

Please direct any queries to:

#### Aileen Hie

**Phone:** 02 9910 6200  
**Fax:** 02 9910 6201  
**Email:** ahie@envirolab.com.au

#### Jacinta Hurst

**Phone:** 02 9910 6200  
**Fax:** 02 9910 6201  
**Email:** jhurst@envirolab.com.au

Analysis Underway, details on the following page:

Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metals in soil	Asbestos ID - soils NEPM - ASB-001	Asbestos ID - materials	On Hold
BH4-0.24-0.45	✓	✓	✓	✓	✓	✓	✓			
BH4-0.5-0.9	✓	✓	✓				✓	✓		
BH4-1.2-1.4										✓
BH5-0.2-0.5	✓	✓	✓	✓	✓	✓	✓	✓		
BH5-0.6-0.8	✓	✓	✓				✓			
BH5-1.2-1.4										✓
BH6-0.13-0.35	✓	✓	✓	✓	✓	✓	✓	✓		
BH6-0.6-0.8	✓	✓	✓				✓			
BH6-0.9-1.1										✓
BH6-1.3-1.5										✓
BH7-0.2-0.6	✓	✓	✓	✓	✓	✓	✓	✓		
BH7-0.9-1.2	✓	✓	✓				✓			
BH7-1.3-1.5										✓
BH7 Spoil F1-0.4-0.6									✓	
SDUP1										✓
SDUP2	✓	✓	✓	✓	✓	✓	✓			
SDUP3										✓
TB-S1	✓									
TS-S1	✓									

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.

## SAMPLE AND CHAIN OF CUSTODY FORM

<b>TO:</b> ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201		<b>JKE Job</b> Number: E34695PR  <b>Date Results</b> Required: STANDARD  <b>Page:</b> 1 of 1		<b>FROM:</b>  <b>JK Environments</b>  REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 <b>Attention:</b> Craig Ridley Cridley@jkenvironments.com.au													
<b>Location:</b> Brookvale		<b>Sample Preserved in Esky on Ice</b>															
<b>Sampler:</b> CR		<b>Tests Required</b>															
<b>Date Sampled</b>	<b>Lab Ref:</b>	<b>Sample Number</b>	<b>Depth (m)</b>	<b>Sample Container</b>	<b>PID</b>	<b>Sample Description</b>	<b>Combo 2</b>	<b>Combo 3</b>	<b>Combo 6</b>	<b>Combo 6a</b>	<b>8 Metals</b>	<b>PAHs</b>	<b>TRI/BTEX</b>	<b>BTEX</b>	<b>Asbestos NEPM</b>	<b>Asbestos ID</b>	
22/01/2022	1	BH4	0.24-0.45	G	0	F: sandy gravel			X								
22/01/2022	2	BH4	0.5-0.9	G, A	0	F: silty sand		X							X		
22/01/2022	3	BH4	1.2-1.4	G	1	Silty Sand											
22/01/2022	4	BH5	0.2-0.5	G, A	0	F: silty sand			X						X		
22/01/2022	5	BH5	0.6-0.8	G	0	Clayey Sand		X									
22/01/2022	6	BH5	1.2-1.4	G	0	Silty Sand											
22/01/2022	7	BH6	0.13-0.35	G, A	2	F: silty clay			X						X		
22/01/2022	8	BH6	0.6-0.8	G, A	0	F: silty sand		X									
22/01/2022	9	BH6	0.9-1.1	G	0	Silty Sand											
22/01/2022	10	BH6	1.3-1.5	G	0	Silty Sand											
22/01/2022	11	BH7	0.2-0.6	G, A	0	F: silty sand			X						X		
22/01/2022	12	BH7	0.9-1.2	G	0	Silty Sand		X									
22/01/2022	13	BH7	1.3-1.5	G	0	Silty Sand											
22/01/2022	14	BH7 Spoil F1	0.4-0.6	A	-	Fragment										X	
22/01/2022	15	SDUP1	-	G	-	Duplicate											
22/01/2022	16	SDUP2	-	G	-	Duplicate			X								
22/01/2022	17	SDUP3	-	G	-	Duplicate											
22/01/2022	18	SDUP4	-	G	-	Duplicate			X		SEND TO VIC						
22/01/2022	18	TB-S1	-	G	-	Trip Blank								X			
21/01/2022	19	TS-S1	-	V	-	Trip Spike								X			
<b>Remarks (comments/detection limits required):</b>							<b>Sample Containers:</b> G - 250mg Glass Jar V - Vial A - Ziplock Asbestos Bag P - Plastic Bag										
<b>Relinquished By:</b>				<b>Date:</b>			<b>Time:</b>				<b>Received By:</b>				<b>Date:</b>		
							1350.				Cridley				24/1/22		



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## **CERTIFICATE OF ANALYSIS 29641**

### **Client Details**

<b>Client</b>	JK Environments
<b>Attention</b>	Craig Ridley
<b>Address</b>	PO Box 976, North Ryde BC, NSW, 1670

### **Sample Details**

<b>Your Reference</b>	<b><u>E34695PR</u></b>
<b>Number of Samples</b>	1 Soil
<b>Date samples received</b>	27/01/2022
<b>Date completed instructions received</b>	27/01/2022

### **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**

<b>Date results requested by</b>	31/01/2022
<b>Date of Issue</b>	31/01/2022
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Accredited for compliance with ISO/IEC 17025 - Testing. <b>Tests not covered by NATA are denoted with *</b>	

#### **Results Approved By**

Chris De Luca, Operations Manager

#### **Authorised By**

Pamela Adams, Laboratory Manager



vTRH(C6-C10)/BTEXN in Soil		
Our Reference		29641-1
Your Reference	UNITS	SDUP4
Date Sampled		22/01/2022
Type of sample		Soil
Date extracted	-	28/01/2022
Date analysed	-	28/01/2022
vTRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25
vTRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	<25
TRH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total BTEX	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	104

TRH Soil C10-C40 NEPM		
Our Reference		29641-1
Your Reference	UNITS	SDUP4
Date Sampled		22/01/2022
Type of sample		Soil
Date extracted	-	28/01/2022
Date analysed	-	29/01/2022
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	<50
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	<100
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	<50
TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2)	mg/kg	<50
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	<100
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	80

PAHs in Soil		
Our Reference		29641-1
Your Reference	UNITS	SDUP4
Date Sampled		22/01/2022
Type of sample		Soil
Date extracted	-	28/01/2022
Date analysed	-	29/01/2022
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	0.8
Pyrene	mg/kg	0.8
Benzo(a)anthracene	mg/kg	0.4
Chrysene	mg/kg	0.5
Benzo(b,j&k)fluoranthene	mg/kg	1.1
Benzo(a)pyrene	mg/kg	0.69
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	0.5
Total +ve PAH's	mg/kg	5.4
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.9
Benzo(a)pyrene TEQ calc (Half)	mg/kg	1
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	1.0
Surrogate <i>p</i> -Terphenyl-d <sub>14</sub>	%	106

OCP in Soil		
Our Reference		29641-1
Your Reference	UNITS	SDUP4
Date Sampled		22/01/2022
Type of sample		Soil
Date extracted	-	28/01/2022
Date analysed	-	29/01/2022
alpha-BHC	mg/kg	<0.1
Hexachlorobenzene	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve reported Aldrin + Dieldrin	mg/kg	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1
Surrogate 2-chlorophenol-d4	%	104

OP in Soil		
Our Reference		29641-1
Your Reference	UNITS	SDUP4
Date Sampled		22/01/2022
Type of sample		Soil
Date extracted	-	28/01/2022
Date analysed	-	29/01/2022
Azinphos-methyl	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Chlorpyrifos	mg/kg	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1
Diazinon	mg/kg	<0.1
Dichlorovos	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Ethion	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Malathion	mg/kg	<0.1
Parathion	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Surrogate 2-chlorophenol-d4	%	104

PCBs in Soil		
Our Reference		29641-1
Your Reference	UNITS	SDUP4
Date Sampled		22/01/2022
Type of sample		Soil
Date extracted	-	28/01/2022
Date analysed	-	29/01/2022
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate 2-fluorobiphenyl	%	108



Acid Extractable metals in soil		
Our Reference		29641-1
Your Reference	UNITS	SDUP4
Date Sampled		22/01/2022
Type of sample		Soil
Date digested	-	29/01/2022
Date analysed	-	29/01/2022
Arsenic	mg/kg	<4
Cadmium	mg/kg	12
Chromium	mg/kg	11
Copper	mg/kg	48
Lead	mg/kg	360
Mercury	mg/kg	<0.1
Nickel	mg/kg	7
Zinc	mg/kg	4,700

Moisture		
Our Reference	UNITS	29641-1
Your Reference		SDUP4
Date Sampled		22/01/2022
Type of sample		Soil
Date prepared	-	28/01/2022
Date analysed	-	29/01/2022
Moisture	%	14

Method ID	Methodology Summary
<b>Inorg-008</b>	Moisture content determined by heating at 105°C for a minimum of 12 hours.
<b>Metals-020 ICP-AES</b>	Determination of various metals by ICP-AES.
<b>Metals-021 CV-AAS</b>	Determination of Mercury by Cold Vapour AAS.
<b>Org-020</b>	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.</p> <p>F2 = (&gt;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.</p> <p>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 (&gt;C10-C40).</p>
<b>Org-021/022</b>	<p>Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD or GC-MS.</p> <p>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.</p>
<b>Org-022</b>	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
<b>Org-022</b>	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.</p> <p>Note, For OCs 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.</p>

Method ID	Methodology Summary
<b>Org-022</b>	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.</p> <p>For soil results:-</p> <ol style="list-style-type: none"> <li>1. 'EQ PQL' values are assuming all contributing PAHs reported as &lt;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.</li> <li>2. 'EQ zero' values are assuming all contributing PAHs reported as &lt;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.</li> <li>3. 'EQ half PQL' values are assuming all contributing PAHs reported as &lt;PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above.</li> </ol> <p>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.</p>
<b>Org-022</b>	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
<b>Org-023</b>	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
<b>Org-023</b>	<p>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.</p> <p>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.</p>

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	-			28/01/2022	[NT]	[NT]	[NT]	[NT]	28/01/2022	[NT]
Date analysed	-			28/01/2022	[NT]	[NT]	[NT]	[NT]	28/01/2022	[NT]
vTRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	102	[NT]
vTRH C <sub>6</sub> - C <sub>10</sub>	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]	95	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	103	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	105	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	109	[NT]	[NT]	[NT]	[NT]	115	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			28/01/2022	[NT]	[NT]	[NT]	[NT]	28/01/2022	[NT]
Date analysed	-			29/01/2022	[NT]	[NT]	[NT]	[NT]	29/01/2022	[NT]
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	94	[NT]
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	107	[NT]
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	94	[NT]
TRH >C <sub>16</sub> -C <sub>34</sub>	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH >C <sub>34</sub> -C <sub>40</sub>	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	107	[NT]
Surrogate o-Terphenyl	%		Org-020	86	[NT]	[NT]	[NT]	[NT]	88	[NT]



QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			28/01/2022	[NT]	[NT]	[NT]	[NT]	28/01/2022	[NT]
Date analysed	-			29/01/2022	[NT]	[NT]	[NT]	[NT]	29/01/2022	[NT]
Naphthalene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Acenaphthylene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Fluorene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Phenanthrene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Anthracene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Pyrene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-022	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022	<0.05	[NT]	[NT]	[NT]	[NT]	106	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate <i>p</i> -Terphenyl-d <sub>14</sub>	%		Org-022	100	[NT]	[NT]	[NT]	[NT]	104	[NT]

QUALITY CONTROL: OCP in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			28/01/2022	[NT]	[NT]	[NT]	[NT]	28/01/2022	[NT]
Date analysed	-			29/01/2022	[NT]	[NT]	[NT]	[NT]	29/01/2022	[NT]
alpha-BHC	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Hexachlorobenzene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
gamma-BHC	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
delta-BHC	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
alpha-chlordane	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Dieldrin	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Endrin	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Methoxychlor	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2-chlorophenol-d4	%		Org-022	96	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: OP in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			28/01/2022	[NT]	[NT]	[NT]	[NT]	28/01/2022	[NT]
Date analysed	-			29/01/2022	[NT]	[NT]	[NT]	[NT]	29/01/2022	[NT]
Azinphos-methyl	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorpyrifos	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Diazinon	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Dichlorovos	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	126	[NT]
Fenitrothion	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	122	[NT]
Malathion	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2-chlorophenol-d4	%		Org-022	96	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			28/01/2022	[NT]	[NT]	[NT]	[NT]	28/01/2022	[NT]
Date analysed	-			29/01/2022	[NT]	[NT]	[NT]	[NT]	29/01/2022	[NT]
Aroclor 1016	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Aroclor 1260	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2-fluorobiphenyl	%		Org-022	106	[NT]	[NT]	[NT]	[NT]	106	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date digested	-			29/01/2022	[NT]	[NT]	[NT]	[NT]	29/01/2022	[NT]
Date analysed	-			29/01/2022	[NT]	[NT]	[NT]	[NT]	29/01/2022	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	[NT]	[NT]	92	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	[NT]	[NT]	96	[NT]
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	[NT]	[NT]	121	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]

**Result Definitions**

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



## Quality Control Definitions

<b>Blank</b>	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.
<b>Duplicate</b>	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.
<b>Matrix Spike</b>	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.
<b>LCS (Laboratory Control Sample)</b>	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.
<b>Surrogate Spike</b>	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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

## 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.

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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

## SAMPLE RECEIPT ADVICE

### Client Details

<b>Client</b>	JK Environments
<b>Attention</b>	Craig Ridley

### Sample Login Details

<b>Your reference</b>	E34695PR
<b>Envirolab Reference</b>	29641
<b>Date Sample Received</b>	27/01/2022
<b>Date Instructions Received</b>	27/01/2022
<b>Date Results Expected to be Reported</b>	02/02/2022

### Sample Condition

<b>Samples received in appropriate condition for analysis</b>	Yes
<b>No. of Samples Provided</b>	1 Soil
<b>Turnaround Time Requested</b>	Standard
<b>Temperature on Receipt (°C)</b>	25.1
<b>Cooling Method</b>	Ice Pack
<b>Sampling Date Provided</b>	YES

### Comments

Nil

Please direct any queries to:

#### Pamela Adams

**Phone:** 03 9763 2500  
**Fax:** 03 9763 2633  
**Email:** padams@envirolab.com.au

#### Chris De Luca

**Phone:** 03 9763 2500  
**Fax:** 03 9763 2633  
**Email:** cdeluca@envirolab.com.au

*Analysis Underway, details on the following page:*



**Envirolab Services Pty Ltd**

ABN 37 112 535 645 - 002

25 Research Drive Croydon South VIC 3136

ph 03 9763 2500 fax 03 9763 2633

melbourne@envirolab.com.au

www.envirolab.com.au

Sample ID	VTRH(C6-C10)/BTEXN in Soil	TRH Soil C10-C40 NEPM	PAHs in Soil	OCP in Soil	OP in Soil	PCBs in Soil	Acid Extractable metals in soil
SDUP4	✓	✓	✓	✓	✓	✓	✓

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.

# SAMPLE AND CHAIN OF CUSTODY FORM

<b>TO:</b> ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Aileen		<b>JKE Job Number:</b> E34695PR <b>Date Results Required:</b> STANDARD <b>Page:</b> 1 of 1		<b>FROM:</b>  <b>JK Environments</b> REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: Craig Ridley Cridley@jkenvironments.com.au	
---	--	--	--	--	--

Location: Brookvale							Sample Preserved in Esky on Ice									
Sampler: CR							Tests Required									
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	BTEX	Asbestos NEPM	Asbestos ID
22/01/2022	1	BH4	0.24-0.45	G	0	F: sandy gravel			X							
22/01/2022	2	BH4	0.5-0.9	G, A	0	F: silty sand		X							X	
22/01/2022	3	BH4	1.2-1.4	G	1	Silty Sand										
22/01/2022	4	BH5	0.2-0.5	G, A	0	F: silty sand			X						X	
22/01/2022	5	BH5	0.6-0.8	G	0	Clayey Sand		X								
22/01/2022	6	BH5	1.2-1.4	G	0	Silty Sand										
22/01/2022	7	BH6	0.13-0.35	G, A	2	F: silty clay			X						X	
22/01/2022	8	BH6	0.6-0.8	G, A	0	F: silty sand		X								
22/01/2022	9	BH6	0.9-1.1	G	0	Silty Sand										
22/01/2022	10	BH6	1.3-1.5	G	0	Silty Sand										
22/01/2022	11	BH7	0.2-0.6	G, A	0	F: silty sand			X						X	
22/01/2022	12	BH7	0.9-1.2	G	0	Silty Sand		X								
22/01/2022	13	BH7	1.3-1.5	G	0	Silty Sand										
22/01/2022	14	BH7 Spoil F1	0.4-0.6	A	-	Fragment										X
22/01/2022	15	SDUP1		G	-	Duplicate										
22/01/2022	16	SDUP2		G	-	Duplicate			X							
22/01/2022	17	SDUP3		G	-	Duplicate										
22/01/2022	18	SDUP4		G	-	Duplicate			X		SEND TO VIC					
22/01/2022	18	TB-S1		G	-	Trip Blank								X		
21/01/2022	19	TS-S1		V	-	Trip Spike								X		

<b>Remarks (comments/detection limits required):</b>  		<b>Sample Containers:</b> G - 250mg Glass Jar V - Vial A - Ziplock Asbestos Bag P - Plastic Bag	
<b>Relinquished By:</b> EL Sydney Closerman	<b>Date:</b> 25/01/22	<b>Received By:</b> [Signature]	<b>Date:</b> 24/1/22

ENVIROLAB Croydon South VIC 3136 Ph: (03) 9763 2500

Job No: 29641

Date Received: 24/1/22

Time Received: 12:30

Received By: GS

Temp: Cool/Ambient

Cooling: Ice/Icepack 25.1

Security: Intact/Broken/None

12 Ashley Street  
Chatswood NSW 2067  
Ph: (02) 9910 6200

Job No: 28721  
Date Received: 24/1/22  
Time Received: 13:50  
Received By: [Signature]  
Temp: Cool/Ambient  
Cooling: Ice/Icepack  
Security: Intact/Broken/None

## **CERTIFICATE OF ANALYSIS 287219-A**

### **Client Details**

<b>Client</b>	JK Environments
<b>Attention</b>	C Ridley
<b>Address</b>	PO Box 976, North Ryde BC, NSW, 1670

### **Sample Details**

<b>Your Reference</b>	<b><u>E34695PR, Brookvale</u></b>
<b>Number of Samples</b>	additional analysis
<b>Date samples received</b>	24/01/2022
<b>Date completed instructions received</b>	09/02/2022

### **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**

<b>Date results requested by</b>	16/02/2022
<b>Date of Issue</b>	14/02/2022
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. <b>Tests not covered by NATA are denoted with *</b>	

#### **Results Approved By**

Giovanni Agosti, Group Technical Manager

#### **Authorised By**



Nancy Zhang, Laboratory Manager

Metals from Leaching Fluid pH 2.9 or 5		
Our Reference		287219-A-11
Your Reference	UNITS	BH7
Depth		0.2-0.6
Date Sampled		22/01/2022
Type of sample		Soil
Date extracted	-	10/02/2022
Date analysed	-	10/02/2022
pH of soil for fluid# determ.	pH units	7.7
pH of soil TCLP (after HCl)	pH units	1.7
Extraction fluid used	-	1
pH of final Leachate	pH units	5.1
Cadmium	mg/L	0.09
Lead	mg/L	0.2



Method ID	Methodology Summary
<b>INORG-004</b>	Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction (zHE) using AS4439 and USEPA 1311.
<b>Inorg-004</b>	<p>Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439 and USEPA 1311.</p> <p>Please note that the mass used may be scaled down from default based on sample mass available.</p> <p>Samples are stored at 2-6oC before and after leachate preparation.</p>
<b>Metals-020</b>	<p>Determination of various metals by ICP-AES following buffer determination as per USEPA 1311 and hence AS 4439.3.</p> <p>Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.</p>

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			10/02/2022	[NT]	[NT]	[NT]	[NT]	10/02/2022	[NT]
Date analysed	-			10/02/2022	[NT]	[NT]	[NT]	[NT]	10/02/2022	[NT]
Cadmium	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	98	[NT]
Lead	mg/L	0.03	Metals-020	<0.03	[NT]	[NT]	[NT]	[NT]	101	[NT]

**Result Definitions**

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

## Quality Control Definitions

<b>Blank</b>	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.
<b>Duplicate</b>	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.
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<b>LCS (Laboratory Control Sample)</b>	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.
<b>Surrogate Spike</b>	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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

## 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.

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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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

## SAMPLE RECEIPT ADVICE

### Client Details

<b>Client</b>	JK Environments
<b>Attention</b>	C Ridley

### Sample Login Details

<b>Your reference</b>	E34695PR, Brookvale
<b>Envirolab Reference</b>	287219-A
<b>Date Sample Received</b>	24/01/2022
<b>Date Instructions Received</b>	09/02/2022
<b>Date Results Expected to be Reported</b>	16/02/2022

### Sample Condition

<b>Samples received in appropriate condition for analysis</b>	Yes
<b>No. of Samples Provided</b>	additional analysis
<b>Turnaround Time Requested</b>	Standard
<b>Temperature on Receipt (°C)</b>	13
<b>Cooling Method</b>	Ice Pack
<b>Sampling Date Provided</b>	YES

### Comments

Nil

Please direct any queries to:

#### Aileen Hie

**Phone:** 02 9910 6200  
**Fax:** 02 9910 6201  
**Email:** ahie@envirolab.com.au

#### Jacinta Hurst

**Phone:** 02 9910 6200  
**Fax:** 02 9910 6201  
**Email:** jhurst@envirolab.com.au

*Analysis Underway, details on the following page:*



Sample ID	pH of soil for fluid#determ.	pH of soil TCLP (after HCl)	Extraction fluid used	pH of final Leachate	Cadmium	Lead	On Hold
BH4-0.24-0.45							✓
BH4-0.5-0.9							✓
BH4-1.2-1.4							✓
BH5-0.2-0.5							✓
BH5-0.6-0.8							✓
BH5-1.2-1.4							✓
BH6-0.13-0.35							✓
BH6-0.6-0.8							✓
BH6-0.9-1.1							✓
BH6-1.3-1.5							✓
BH7-0.2-0.6	✓	✓	✓	✓	✓	✓	
BH7-0.9-1.2							✓
BH7-1.3-1.5							✓
BH7 Spoil F1-0.4-0.6							✓
SDUP1							✓
SDUP2							✓
SDUP3							✓
TB-S1							✓
TS-S1							✓
BH4 - [TRIPLICATE]-0.24-0.45							✓

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.

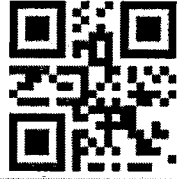


**Ming To**

**Subject:**

FW: Results for Registration 287219 E34695PR, Brookvale

Ref: 287219-A  
TA: Standard  
Due: 16/02/2022  
M7



287219-A

**From:** Craig Ridley <CRidley@jkenvironments.com.au>  
**Sent:** Wednesday, 9 February 2022 11:26 AM  
**To:** Greta Petzold <GPetzold@envirolab.com.au>  
**Cc:** Samplereceipt <Samplereceipt@envirolabservices.com.au>  
**Subject:** RE: Results for Registration 287219 E34695PR, Brookvale

**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,

Can we please arrange for the following additional tests for this sample batch (standard turnaround):

- ① • BH7 (0.2-0.6m) (287219-11) for TCLP Cadmium and TCLP Lead.

Any issues, please call.

Regards  
Craig Ridley  
Senior Environmental Scientist



T: +612 9888 5000  
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**JKEnvironments**

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**From:** Greta Petzold <GPetzold@envirolab.com.au>  
**Sent:** Tuesday, 1 February 2022 5:00 PM  
**To:** Craig Ridley <CRidley@jkenvironments.com.au>  
**Subject:** Results for Registration 287219 E34695PR, Brookvale

Please refer to attached for:  
a copy of the Certificate of Analysis  
a copy of the COC/paperwork received from you  
an Excel or .csv file containing the results

Please note that a hard copy will not be posted.



## **Appendix F: Report Explanatory Notes**



## QA/QC Definitions

The QA/QC terms used in this report are defined below. The definitions are in accordance with US EPA publication SW-846, entitled *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (1994)<sup>17</sup> methods and those described in *Environmental Sampling and Analysis, A Practical Guide*, (1991)<sup>18</sup>. The NEPM (2013) is consistent with these documents.

### A. Practical Quantitation Limit (PQL), Limit of Reporting (LOR) & Estimated Quantitation Limit (EQL)

These terms all refer to the concentration above which results can be expressed with a minimum 95% confidence level. The laboratory reporting limits are generally set at ten times the standard deviation for the Method Detection Limit for each specific analyte. For the purposes of this report the LOR, PQL, and EQL are considered to be equivalent.

When assessing laboratory data it should be borne in mind that values at or near the PQL have two important limitations: *“The uncertainty of the measurement value can approach, and even equal, the reported value. Secondly, confirmation of the analytes reported is virtually impossible unless identification uses highly selective methods. These issues diminish when reliably measurable amounts of analytes are present. Accordingly, legal and regulatory actions should be limited to data at or above the reliable detection limit”* (Keith, 1991).

### B. Precision

The degree to which data generated from repeated measurements differ from one another due to random errors. Precision is measured using the standard deviation or Relative Percent Difference (RPD).

### C. Accuracy

Accuracy is a measure of the agreement between an experimental result and the true value of the parameter being measured (i.e. the proximity of an averaged result to the true value, where all random errors have been statistically removed). The assessment of accuracy for an analysis can be achieved through the analysis of known reference materials or assessed by the analysis of surrogates, field blanks, trip spikes and matrix spikes. Accuracy is typically reported as percent recovery.

### D. Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is primarily dependent upon the design and implementation of the sampling program. Representativeness of the data is partially ensured by the avoidance of contamination, adherence to sample handling and analysis protocols and use of proper chain-of-custody and documentation procedures.

### E. Completeness

Completeness is a measure of the number of valid measurements in a data set compared to the total number of measurements made and overall performance against DQIs. The following information is assessed for completeness:

- Chain-of-custody forms;
- Sample receipt form;
- All sample results reported;
- All blank data reported;

<sup>17</sup> US EPA, (1994). *SW-846: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*. (US EPA SW-846)

<sup>18</sup> Keith., H, (1991). *Environmental Sampling and Analysis, A Practical Guide*



- All laboratory duplicate and RPDs calculated;
- All surrogate spike data reported;
- All matrix spike and lab control spike (LCS) data reported and RPDs calculated;
- Spike recovery acceptable limits reported; and
- NATA stamp on reports.

#### **F. Comparability**

Comparability is the evaluation of the similarity of conditions (e.g. sample depth, sample homogeneity) under which separate sets of data are produced. Data comparability checks include a bias assessment that may arise from the following sources:

- Collection and analysis of samples by different personnel; Use of different techniques;
- Collection and analysis by the same personnel using the same methods but at different times; and
- Spatial and temporal changes (due to environmental dynamics).

#### **G. Blanks**

The purpose of laboratory and field blanks is to check for artefacts and interferences that may arise during sampling, transport and analysis.

#### **H. Matrix Spikes**

Samples are spiked with laboratory grade standards to detect interactive effects between the sample matrix and the analytes being measured. Matrix Spikes are reported as a percent recovery and are prepared for 1 in every 20 samples. Sample batches that contain less than 20 samples may be reported with a Matrix Spike from another batch. The percent recovery is calculated using the formula below. Acceptable recovery limits are 70% to 130%.

$$\frac{(\text{Spike Sample Result} - \text{Sample Result}) \times 100}{\text{Concentration of Spike Added}}$$

#### **I. Surrogate Spikes**

Samples are spiked with a known concentration of compounds that are chemically related to the analyte being investigated but unlikely to be detected in the environment. The purpose of the Surrogate Spikes is to check the accuracy of the analytical technique. Surrogate Spikes are reported as percent recovery.

#### **J. Duplicates**

Laboratory duplicates measure precision, expressed as Relative Percent Difference. Duplicates are prepared from a single field sample and analysed as two separate extraction procedures in the laboratory. The RPD is calculated using the formula where D1 is the sample concentration and D2 is the duplicate sample concentration:

$$\frac{(D1 - D2) \times 100}{\{(D1 + D2)/2\}}$$



## **Appendix G: Data (QA/QC) Evaluation**



## Data (QA/QC) Evaluation

### A. INTRODUCTION

This Data (QA/QC) Evaluation forms part of the validation process for the DQOs documented in Section 6.1 of this report. Checks were made to assess the data in terms of precision, accuracy, representativeness, comparability and completeness. These 'PARCC' parameters are referred to collectively as DQIs and are defined in the Report Explanatory Notes attached in the report appendices.

#### 1. Field and Laboratory Considerations

The quality of the analytical data produced for this project has been considered in relation to the following:

- Sample collection, storage, transport and analysis;
- Laboratory PQLs;
- Field QA/QC results; and
- Laboratory QA/QC results.

#### 2. Field QA/QC Samples and Analysis

A summary of the field QA/QC samples collected and analysed for this investigation is provided in the following table:

Sample Type	Sample Identification	Frequency (of Sample Type)	Analysis Performed
Intra-laboratory duplicate (soil)	SDUP2 (primary sample BH5 0.2-0.5m)	Approximately 10% of primary samples	Heavy metals, TRH/BTEX, PAHs, OCPs, OPPs and PCBs
Inter-laboratory duplicate (soil)	SDUP4 (primary sample BH7 0.2-0.6m)	Approximately 10% of primary samples	Heavy metals, TRH/BTEX, PAHs, OCPs, OPPs and PCBs
Trip spike (soil)	TS1 (21 January 2022)	One for the investigation to demonstrate adequacy of preservation, storage and transport methods	BTEX
Trip blank (soil)	TB1 (21 January 2022)	One for the investigation to demonstrate adequacy of storage and transport methods	BTEX

The results for the field QA/QC samples are detailed in the laboratory summary tables (Table Q1) attached to the investigation report and are discussed in the subsequent sections of this Data (QA/QC) Evaluation report.



### **3. Data Assessment Criteria**

JKE adopted the following criteria for assessing the field and laboratory QA/QC analytical results:

#### ***Field Duplicates***

Acceptable targets for precision of field duplicates in this report will be 30% or less, consistent with NEPM (2013). RPD failures will be considered qualitatively on a case-by-case basis taking into account factors such as the concentrations used to calculate the RPD (i.e. RPD exceedance where concentrations are close to the PQL are typically not as significant as those where concentrations are reported at least five or 10 times the PQL), sample type, collection methods and the specific analyte where the RPD exceedance was reported.

#### ***Field/Trip Blanks***

Acceptable targets for field blank samples in this report will be less than the PQL for organic analytes.

#### ***Trip Spikes***

Acceptable targets for trip spike samples in this report will be 70% to 130%.

#### ***Laboratory QA/QC***

The suitability of the laboratory data is assessed against the laboratory QA/QC criteria which is outlined in the laboratory reports. These criteria were developed and implemented in accordance with the laboratory's NATA accreditation and align with the acceptable limits for QA/QC samples as outlined in NEPM (2013) and other relevant guidelines.

A summary of the acceptable limits adopted by the primary laboratory (Envirolab) is provided below:

#### ***RPDs***

- Results that are <5 times the PQL, any RPD is acceptable; and
- Results >5 times the PQL, RPDs between 0-50% are acceptable.

#### ***Laboratory Control Samples (LCS) and Matrix Spikes***

- 70-130% recovery acceptable for metals and inorganics;
- 60-140% recovery acceptable for organics; and
- 10-140% recovery acceptable for VOCs.

#### ***Surrogate Spikes***

- 60-140% recovery acceptable for general organics; and
- 10-140% recovery acceptable for VOCs.

#### ***Method Blanks***

- All results less than PQL.

## **B. DATA EVALUATION**

### **1. Sample Collection, Storage, Transport and Analysis**

Samples were collected by trained field staff in accordance with our standard field procedures. Field sampling procedures were designed to be consistent with relevant guidelines, including NEPM (2013) and other guidelines made under the CLM Act 1997.

Appropriate sample preservation, handling and storage procedures were adopted. Laboratory analysis was undertaken within specified holding times generally in accordance with Schedule B(3) of NEPM (2013) and the laboratory NATA accredited methodologies. Envirolab noted that the asbestos results were reported to be consistent with the recommendations in NEPM (2013), however this level of reporting is outside the scope of their NATA accreditation. In the absence of other available analytical methods for asbestos, this was found to be acceptable for the purpose of this investigation.

JKE note that the temperature on receipt of the primary soil samples was reported to be 13°C on the primary sample batch, and up to 25.1°C on receipt of the inter-laboratory duplicate sample. JKE understand that the temperature is measured at the laboratory using an infrared temperature probe by scanning the outside of the sample container (i.e. one sample jar/container at the time of registering the samples). This procedure is not considered to be robust as there is a potential for the outside of the jar to warm to ambient temperature, or at least to increase from that of the internal contents, relatively quickly. On this basis, JKE is of the opinion that the temperatures reported on the Sample Receipts are unlikely to be reliable or representative of the overall batch. This is further supported by the trip spike recovery results (discussed further below) which reported adequate recovery in the range of 105% to 106%.

JKE note that the trip spike and trip blank samples are dated the previous day to the soil sampling event (i.e. dated 21 January 2022). As the fieldworks were undertaken on a Saturday, the laboratory prepared QA/QC samples were prepared on the previous business day, and were stored chilled in a refrigerator overnight.

Review of the project data also indicated that:

- COC documentation was adequately maintained;
- Sample receipt advice documentation was provided for all sample batches;
- All analytical results were reported; and
- Consistent units were used to report the analysis results.

### **2. Laboratory PQLs**

Appropriate PQLs were adopted for the analysis and all PQLs were below the SAC.

### **3. Field QA/QC Sample Results**

#### ***Field Duplicates***

The results indicated that field precision was acceptable. RPD non-conformances were reported for some analytes as discussed below:

- Elevated RPDs were reported for chromium and copper in SDUP2/BH5 (0.2-0.5m); and
- Elevated RPDs were reported for cadmium, chromium, nickel, zinc and several PAH compounds in SDUP4/BH7 (0.2-0.6m).

Values outside the acceptable limits have been attributed to sample heterogeneity and the difficulties associated with obtaining homogenous duplicate samples of heterogeneous matrices. As both the primary and duplicate sample results were compared to the SAC, the exceedances are not considered to have had an adverse impact on the data set as a whole.

#### ***Field/Trip Blank***

During the investigation, one soil trip blank was placed in the esky during sampling and transported back to the laboratory. The results were all less than the PQLs, therefore cross contamination between samples that may have significance for data validity did not occur.

#### ***Trip Spike***

The results ranged from 105% to 106% and indicated that field preservation methods were appropriate.

#### **4. Laboratory QA/QC**

The analytical methods implemented by the laboratory were performed in accordance with their NATA accreditation and were consistent with Schedule B(3) of NEPM (2013). The frequency of data reported for the laboratory QA/QC (i.e. duplicates, spikes, blanks, LCS) was considered to be acceptable for the purpose of this investigation.

A review of the laboratory QA/QC data identified the following minor non-conformances:

- Report 287219 – The chlorpyrifos PQL for one soil sample was raised due to interference from analytes (other than those being tested) within the sample matrix. The raised PQL was below the SAC; and
- Report 287219 – RPD exceedances were reported for chromium and lead in one soil sample. The laboratory issued the results as a triplicate sample. The triplicate results were below the SAC.

#### **C. DATA QUALITY SUMMARY**

JKE is of the opinion that the data are adequately precise, accurate, representative, comparable and complete to serve as a basis for interpretation to achieve the investigation objectives.

Non-conformances were reported for some field QA/QC samples and laboratory QA/QC analysis. These non-conformances were considered to be sporadic and minor, and were not considered to be indicative of systematic sampling or analytical errors. On this basis, these non-conformances are not considered to materially impact the report findings.



## **Appendix H: Guidelines and Reference Documents**



Acid Sulfate Soils Management Advisory Committee (ASSMAC), (1998). Acid Sulfate Soils Manual

Australian and New Zealand Environment Conservation Council (ANZECC), (2000). Australian and New Zealand Guidelines for Fresh and Marine Water Quality

Canadian Council of Ministers of the Environment, (1999). Canadian soil quality guidelines for the protection of environmental and human health: Benzo(a)Pyrene (1997)

CRC Care, (2011). Technical Report No. 10 – Health screening levels for hydrocarbons in soil and groundwater Part 1: Technical development document

Contaminated Land Management Act 1997 (NSW)

Department of Land and Water Conservation, (1997). 1:25,000 Acid Sulfate Soil Risk Map Series

National Health and Medical Research Council (NHMRC), (2021). National Water Quality Management Strategy, Australian Drinking Water Guidelines 2011

NSW Department of Environment and Conservation, (2007). Guidelines for the Assessment and Management of Groundwater Contamination

NSW EPA, (1995). Contaminated Sites Sampling Design Guidelines

NSW EPA, (2014). Waste Classification Guidelines - Part 1: Classifying Waste

NSW EPA, (2015). Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997

NSW EPA, (2017). Guidelines for the NSW Site Auditor Scheme, 3rd Edition

NSW EPA, (2020). Consultants Reporting on Contaminated Land, Contaminated Land Guidelines

National Environment Protection Council (NEPC), (2013). National Environmental Protection (Assessment of Site Contamination) Measure 1999 as amended (2013)

Olszowy, H., Torr, P., and Imray, P., (1995). Trace Element Concentrations in Soils from Rural and Urban Areas of Australia. Contaminated Sites Monograph Series No. 4. Department of Human Services and Health, Environment Protection Agency, and South Australian Health Commission

Protection of the Environment Operations Act 1997 (NSW)

State Environmental Planning Policy No.55 – Remediation of Land 1998 (NSW)

World Health Organisation (WHO), (2008). Petroleum Products in Drinking-water, Background document for the development of WHO Guidelines for Drinking Water Quality

Western Australia Department of Health, (2021). Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia